

1. Eindeutiger Kenncode des Produkttyps:

Produkt(e): Geberit Rohrschott90 Plus EN

Artikelnummer(n): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Verwendungszweck(e):

"Geberit Rohrschott90 Plus EN" ist zur Verwendung als Rohrabschottung zur temporären oder permanenten Aufrechterhaltung des Feuerwiderstandes an Öffnungen in Leichtwandkonstruktionen, Massivwandkonstruktionen, Schachtwänden und Decken in Massivbauweise, durch die verschiedenste Kunststoffrohre durchgeführt werden, vorgesehen.

3. Hersteller:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
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+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit:

System 1

5. Europäisches Bewertungsdokument:

Europäisches Bewertungsdokument:	EAD 350454-00-1104 "Brandschutzprodukte zum Abdichten und Verschliessen von Fugen und Öffnungen und zum Aufhalten von Feuer im Brandfall - Abschottungen"
Europäische Technische Bewertung:	ETA-16/0001 vom 20.09.2021
Technische Bewertungsstelle:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Notifizierte Stelle(n):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Erklärte Leistung:

Wesentliche Merkmale	Leistung	Technische Spezifikation
Brandverhalten	Klasse E / A1	EN 13501-1:2018
Feuerwiderstand	Siehe Anhänge der ETA: D-1 bis D-36 und F-1 bis F-45 sowie 3.1.2	EN 13501-2:2016
Luftdurchlässigkeit	NPD*	EAD 350454-00-1104
Wasserdurchlässigkeit	NPD*	
Gehalt, Emission und/oder Freisetzung gefährlicher Stoffe	NPD*	
Mechanische Festigkeit und Standsicherheit	NPD*	
Festigkeit gegenüber Stoss/Bewegung	NPD*	
Haftfähigkeit	NPD*	
Dauerhaftigkeit	Erfüllt; siehe Anhang 3.3.4	
Luftschalldämmung	NPD*	
Wärmeschutztechnische Eigenschaften	NPD*	
Wasserdampfdurchlässigkeit	NPD*	

* Wurde für ein wesentliches Merkmal keine Leistung festgestellt, ist dies mit "NPD" angegeben.

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der oben genannte Hersteller verantwortlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022

Jörg Schneider
Head Product Compliance

DoP80
fire protection sleeve

1. Unique identification code of the product-type:

Product(s): Geberit fire protection sleeve RS90 Plus EN

Article number(s): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Application purpose(s):

"Geberit Fire protection sleeve RS90 Plus EN" is intended to be used as a pipe penetration seal to temporarily or permanently reinstate the fire resistance performance of flexible wall constructions, rigid wall constructions, shaft walls and rigid floor constructions where they have been provided with apertures which are penetrated by various plastic pipes.

3. Manufacturer:

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4. System(s) for evaluating and checking constancy of performance:

System 1

5. European Assessment Document:

European Assessment Document:	EAD 350454-00-1104 "Fire stopping and fire sealing products - Penetration seals"
European Technical Assessment:	ETA-16/0001 dated 20.09.2021
Technical Assessment Body:	Austrian Institute of Construction Engineering (OIB), Schenkenstrasse 4, 1010 Vienna, Austria
Notified body(ies):	No. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Brunswick, Germany

6. Declared performance:

Essential characteristics	Performance	Technical specification
Reaction to fire	Class E / A1	EN 13501-1:2018
Resistance to fire	See the European Technical Assessment Annexes: D-1 to D-36 and F-1 to F-45 as well as 3.1.2	EN 13501-2:2016
Air permeability	NPD*	EAD 350454-00-1104
Water permeability	NPD*	
Content, emission and/or release of hazardous substances	NPD*	
Mechanical resistance and stability	NPD*	
Resistance to impact/movement	NPD*	
Adhesion	NPD*	
Durability	Fulfilled; see Annex 3.3.4	
Airborne sound insulation	NPD*	
Thermal properties	NPD*	
Water vapour permeability	NPD*	

* If no performance has been determined for an essential characteristic, this is indicated with "NPD".

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022

Jörg Schneider
Head Product Compliance

1. Code d'identification unique du type de produit :

Produit(s) : Manchette coupe-feu Geberit RS90 Plus EN
Numéro(s) de référence : 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1, 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2, 348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Utilisation(s) :

La « manchette coupe-feu Geberit RS90 Plus EN » est conçue pour servir de protection incendie au niveau d'ouvertures dans des parois de construction légère, parois de construction massive, parois de gaine et plafonds en construction massive qui servent de passage aux tubes en matière synthétique les plus divers afin d'y assurer le maintien temporaire ou permanent de la résistance au feu.

3. Fabricant :

Geberit International AG
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www.geberit.com/declarations

4. Système(s) d'évaluation et de vérification de la constance des performances :

Système 1

5. Document d'évaluation européen :

Document d'évaluation européen :	EAD 350454-00-1104 « Produits coupe-feu pour étancher et fermer des joints et des ouvertures et pour contenir le feu en cas d'incendie - Protections incendie »
Evaluation technique européenne :	ETA-16/0001 du 20.09.2021
Organisme d'évaluation technique :	Institut autrichien des techniques de construction (OIB), Schenkenstrasse 4, 1010 Vienne, Autriche
Organisme(s) notifié(s) :	N° 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Brunswick, Allemagne

6. Performance déclarée :

Caractéristiques essentielles	Performance	Spécification technique
Réaction au feu	Classe E/A1	EN 13501-1:2018
Résistance au feu	Voir les annexes de l'ETA : D-1 à D-36 et F-1 à F-45 ainsi que 3.1.2	EN 13501-2:2016
Perméabilité à l'air	NPD*	EAD 350454-00-1104
Perméabilité à l'eau	NPD*	
Teneur, émission et/ou émanation de substances dangereuses	NPD*	
Résistance mécanique et stabilité	NPD*	
Résistance contre les chocs et le mouvement	NPD*	
Adhérence	NPD*	
Durabilité	Satisfaite ; voir annexe 3.3.4	
Isolation des bruits aériens	NPD*	
Propriétés de protection thermique	NPD*	
Perméabilité à la vapeur d'eau	NPD*	

* Si aucune performance n'a été constatée pour une caractéristique essentielle, y faire référence par « NPD ».

La performance du produit précité est conforme à la performance/aux performances déclarée(s). Le fabricant indiqué ci-dessus est seul responsable de l'établissement de la déclaration des performances, conformément au règlement (UE) n° 305/2011.

Signé pour le fabricant et en son nom par :



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Codice di identificazione unico del tipo di prodotto:

Prodotto(i): Collare antincendio per tubi Geberit 90 Plus EN
Numero(i) 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
d'articolo: 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Destinazione(i) d'uso:

Il "collare antincendio per tubi Geberit RS90 Plus EN" è destinato al rivestimento antincendio per il mantenimento temporaneo o permanente della resistenza al fuoco in corrispondenza di aperture in costruzioni di pareti leggere, costruzioni di pareti massicce, pareti divisorie e soffitti in muratura che vengono attraversate da diversi tubi in materia sintetica.

3. Produttore:

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4. Sistema/i per la valutazione e il controllo della costanza della prestazione:

Sistema 1

5. Documento per la valutazione europea:

Documento per la valutazione europea:	EAD 350454-00-1104 "Prodotti d'isolamento antincendio per la sigillatura e chiusura di fughe e aperture e per arrestare il fuoco in caso di incendio - Rivestimenti antincendio"
Valutazione tecnica europea:	ETA-16/0001 del 20.09.2021
Organismo di valutazione tecnica:	Österreichisches Institut für Bautechnik (OIB) (Istituto austriaco per le Tecnologie della Costruzione), Schenkenstrasse 4, 1010 Vienna, Austria
Organismo(i) notificato(i):	N. 0761, MPA (Istituto per il controllo dei materiali da costruzione) Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Germania

6. Prestazione dichiarata:

Caratteristiche essenziali		Prestazione	Specifiche tecniche
	Comportamento in caso d'incendio	Classe E / A1	EN 13501-1:2018
	Resistenza al fuoco	Vedere gli allegati dell'ETA: da D-1 a D-36, da F-1 a F-45 come pure 3.1.2	EN 13501-2:2016
	Permeabilità all'aria	NPD*	EAD 350454-00-1104
	Permeabilità all'acqua	NPD*	
	Contenuto, emissione e/o rilascio di sostanze pericolose	NPD*	
	Resistenza meccanica e sicurezza statica	NPD*	
	Resistenza a urto e movimento	NPD*	
	Adesione	NPD*	
	Durabilità	Soddisfatta, vedere l'allegato 3.3.4	
	Isolamento acustico del rumore trasmesso indirettamente via aria	NPD*	
	Proprietà tecniche dell'isolamento termico	NPD*	
	Permeabilità al vapore acqueo	NPD*	

* Se per una caratteristica essenziale non è stata individuata nessuna prestazione, quest'ultima è indicata con "NPD".

La prestazione del suddetto prodotto corrisponde alla/e prestazione/i dichiarata/e. La responsabilità per la creazione della dichiarazione di prestazione in conformità con il regolamento (UE) N. 305/2011 è esclusivamente del fabbricante sopra indicato.

Firmato a nome e per conto di:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Código de identificación único del producto tipo:

Producto/s: Cortafuegos Geberit RS90 Plus EN
Número/s de artículo: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1, 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2, 348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Aplicación/es:

El «cortafuegos Geberit RS90 Plus EN» solo puede utilizarse como aislamiento contra incendios con el objetivo de conservar de forma permanente o temporal la resistencia al fuego en las aberturas de construcciones de paredes delgadas, construcciones de paredes macizas, paredes de conducto y techos en construcciones macizas, a través de los que se pasan los tubos de plástico más diversos.

3. Fabricante:

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4. Sistema/s de evaluación y verificación de la constancia de las prestaciones:

Sistema 1

5. Documento de evaluación europeo:

Documento de evaluación europeo:	EAD 350454-00-1104 "Productos de aislamiento contra incendios para obtener y taponar juntas y aberturas, y para contener el fuego en caso de incendio. Aislamientos contra incendios"
Evaluación técnica europea:	ETA-16/0001 del 20-09-2021
Organismo de evaluación técnica:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Viena, Austria
Organismo/s notificado/s:	N.º 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Alemania

6. Prestaciones declaradas:

Características esenciales		Prestaciones	Especificación técnica
	Reacción al fuego	Clase E/A1	EN 13501-1:2018
	Resistencia al fuego	Véanse los anexos de ETA: D-1 a D-36 y F-1 a F-45, además de 3.1.2	EN 13501-2:2016
	Permeabilidad al aire	NPD*	EAD 350454-00-1104
	Permeabilidad al agua	NPD*	
	Contenido, emisiones y/o liberación de sustancias peligrosas	NPD*	
	Resistencia mecánica y estabilidad	NPD*	
	Resistencia frente a golpes y movimiento	NPD*	
	Adherencia	NPD*	
	Durabilidad	Cumplido, véase el anexo 3.3.4	
	Aislamiento ruido aéreo	NPD*	
	Características técnicas de aislamiento térmico	NPD*	
	Permeabilidad al vapor de agua	NPD*	

* Si para una característica esencial no se establece ninguna prestación, esto se indica con "NPD".

Las prestaciones del producto antes mencionado se corresponden con la/s prestación/es declarada/s. El fabricante anteriormente mencionado es el único responsable de la elaboración de la declaración de prestaciones de conformidad con el reglamento (UE) núm. 305/2011.

Firmado por y en nombre del fabricante por:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Código de identificação único do tipo de produto:

Produto(s): Registo corta-fogo Geberit RS90 Plus EN
Referência(s): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Campo(s) de aplicação:

“Registo corta-fogo Geberit RS90 Plus EN” destina-se à aplicação como divisória de tubo para a manutenção temporária ou permanente da resistência ao fogo em aberturas de construções de parede leve, construções de parede sólida, paredes de poço e tetos em construção sólida, através das quais são inseridos uma grande variedade de tubos de plástico.

3. Fabricante:

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4. Sistema(s) de avaliação e verificação da regularidade do desempenho:

Sistema 1

5. Documento de Avaliação Europeu:

Documento de Avaliação Europeu:	EAD 350454-00-1104 "Produtos de proteção contra incêndios para vedar e fechar juntas e aberturas e para parar o fogo em caso de incêndio - Vedações corta-fogo"
Avaliação Técnica Europeia:	ETA-16/0001 de 20.09.2021
Organismo de Avaliação Técnica:	Instituto de Engenharia Civil Austríaco («Österreichisches Institut für Bautechnik», OIB), Schenkenstrasse 4, 1010, Viena, Áustria
Organismo(s) notificado(s):	N.º 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Alemanha

6. Desempenho declarado:

Características essenciais	Desempenho	Especificação técnica
Reação ao fogo	Classe E/A1	EN 13501-1:2018
Resistência ao fogo	Consultar Anexos da ETA: de F-1 a D-36 e de F-1 a F-45, bem como 3.1.2	EN 13501-2:2016
Permeabilidade ao ar	NPD*	EAD 350454-00-1104
Permeabilidade à água	NPD*	
Teor, emissão e/ou liberação de substâncias perigosas	NPD*	
Resistência mecânica e estabilidade	NPD*	
Estabilidade em caso de choque e deslocação	NPD*	
Aderência	NPD*	
Durabilidade	Cumprido, consultar Anexo 3.3.4	
Isolamento de ruído aéreo	NPD*	
Propriedades técnicas da proteção térmica	NPD*	
Permeabilidade ao vapor	NPD*	

* Se não foi verificada nenhum desempenho para uma característica essencial, isso é indicado com "NPD".

O desempenho do produto supramencionado corresponde ao(s) desempenho(s) declarado(s). O fabricante supramencionado é o único responsável pela elaboração da presente declaração de desempenho em conformidade com o Regulamento (UE) n.º305/2011.

Assinado para o fabricante e em nome do fabricante em:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Unieke identificatiecode van het producttype:

Product(en): Geberit brandmanchet RS90 Plus EN

Artikelnummer(s): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Toepassingsgebied(en):

“Geberit brandmanchet RS90 Plus EN” is bestemd voor het gebruik als een buiscompartimentering voor het tijdelijke of permanente behoud van de brandwerendheid aan openingen in lichte wandconstructies, massieve wandconstructies, schachtwanden en plafonds in massieve bouwwijze, waardoor de meest verschillende kunststofbuizen worden doorgevoerd.

3. Fabrikant:

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4. Systeem of systemen voor de beoordeling en controle van de prestatiebestendigheid:

Systeem 1

5. Europees beoordelingsdocument:

Europees beoordelingsdocument:	EAD 350454-00-1104 "Brandpreventieproducten voor het afdichten en afsluiten van voegen en openingen en voor het tegenhouden van vuur in het geval van brand - compartimenteringen"
Europese technische beoordeling:	ETA-16/0001 van 20.09.2021
Technische beoordelingsinstantie:	Oostenrijks Instituut voor bouwtechnologie (OIB), Schenkenstrasse 4, 1010 Wenen, Oostenrijk
Aangemelde instantie(s):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Duitsland

6. Aangegeven prestatie:

Essentiële kenmerken	Prestatie	Technische specificatie
Brandgedrag	Klasse E / A1	EN 13501-1:2018
Brandweerstand	Zie bijlagen van de ETA: D-1 tot D-36 en F-1 tot F-45 evenals 3.1.2	EN 13501-2:2016
Luchtdoorlaatbaarheid	NPD*	EAD 350454-00-1104
Waterdoorlaatbaarheid	NPD*	
Gehalte, emissie en/of vrijkomen van gevaarlijke stoffen	NPD*	
Mechanische sterkte en stabiliteit	NPD*	
Weerstand tegen schokken/beweging	NPD*	
Hechtingsvermogen	NPD*	
Duurzaamheid	Vervuld; zie bijlage 3.3.4	
Luchtgeluidsisolatie	NPD*	
Warmte-isolatietechnische eigenschappen	NPD*	
Waterdampdoorlaatbaarheid	NPD*	

* Werd voor een essentieel kenmerk geen prestatie vastgesteld, is dit met "NPD" aangegeven.

De prestatie van het bovenstaande product voldoet aan de aangegeven prestatie(s). Voor het opstellen van de prestatieverklaring in overeenstemming met de verordening (EU) nr. 305/2011 is alleen de boven genoemde fabrikant verantwoordelijk.

Ondertekend voor de fabrikant en in naam van de fabrikant door:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Varetypens unikke identifikationskode:

Produkt(er): Geberit brandmanchet RS90 Plus EN

Varenummer/-re: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Anvendelse(r):

"Geberit brandmanchet RS90 Plus EN" er beregnet som brandmanchet til midlertidig eller permanent opretholdelse af brandmodstanden ved åbninger i letvægskonstruktioner, massive vægge, skaktvægge og lofter i tunge konstruktioner, som de forskellige plastrør føres igennem.

3. Fabrikant:

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4. System(er) til vurdering og kontrol af ydeevnens konstans:

System 1

5. Europæisk vurderingsdokument:

Europæisk vurderingsdokument:	EAD 350454-00-1104 "Brandbeskyttelsesprodukter til tætning og lukning af fuger og åbninger og til at hæmme ilden, hvis der skulle opstå brand - brandhæmmende forseglinger"
Europæisk teknisk vurdering:	ETA-16/0001 af 20-09-2021
Teknisk vurderingsorgan:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Østrig
Bemyndiget/-ede organ(er):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Tyskland

6. Deklareret ydeevne:

Væsentlige egenskaber	Ydeevne	Teknisk specifikation
Reaktion ved brand	Klasse E / A1	EN 13501-1:2018
Brandmodstand	Se mærkat til ETA: D-1 til D-36 og F-1 til F-45 samt 3.1.2	EN 13501-2:2016
Luftgennemtrængelighed	NPD*	EAD 350454-00-1104
Vandgennemtrængelighed	NPD*	
Indhold, emission og/eller udslip af farlige stoffer	NPD*	
Mekanisk styrke og stabilitet	NPD*	
Styrke over for stød/bevægelse	NPD*	
Hæfteevne	NPD*	
Holdbarhed	Opfyldt, se bilag 3.3.4	
Luftlydisolering	NPD*	
Varmebeskyttelsestekniske egenskaber	NPD*	
Vanddampgennemtrængelighed	NPD*	

* Hvis der ikke er fastlagt nogen ydelse for en væsentlig egenskab, er den angivet med "NPD".

Det nævnte produkts ydelse lever op til den deklarerede ydeevne/de deklarerede ydeevner. Ovennævnte producent er alene ansvarlig for udstedelsen af ydeevnedeklarationen i overensstemmelse med forordning (EU) nr. 305/2011.

Underskrevet for fabrikanten og på dennes vegne af:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Produkttypens unika identifikationskod:

Produkt(er): Geberit brandmanschett RS90 Plus EN
Artikelnummer: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Tillämpning(ar):

"Geberit brandmanschett RS90 Plus EN" är avsedd att användas som brandsektionering för tillfälligt eller permanent upprätthållande av brandmotståndet i serviceöppningar i konstruktioner med lätta väggar, massiva väggar, schaktväggar och tak i massiv konstruktion, som olika plaströr dras igenom.

3. Tillverkare:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Schweiz
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System för bedömning och kontroll av konstant prestanda:

System 1

5. Europeiskt bedömningsdokument:

Europeiskt bedömningsdokument:	EAD 350454-00-1104 "Brandskyddsprodukter för tätning och tillslutning av fogar och öppningar och för att hindra eld vid brand – brandsektionering"
Europeisk teknisk bedömning:	ETA-16/0001 av den 20 september 2021
Tekniskt bedömningsorgan:	Österrikes byggtkniska institut (Österreichisches Institut für Bautechnik – OIB), Schenkenstrasse 4, 1010 Wien, Österrike
Anmält(-da) organ:	Nr 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Tyskland

6. Angiven prestanda:

Väsentliga egenskaper	Prestanda	Teknisk specifikation
Brandegenskaper	Klass E/A1	EN 13501-1:2018
Brandmotstånd	Se bilagor till ETA: D-1 till D-36 och F-1 till F-45 samt 3.1.2	EN 13501-2:2016
Luftgenomtränglighet	NPD*	EAD 350454-00-1104
Vattengenomtränglighet	NPD*	
Innehåll, emission och/eller utsläpp av farliga ämnen	NPD*	
Mekanisk hållfasthet och stabilitet	NPD*	
Hållfasthet mot stötar/rörelser	NPD*	
Vidhäftningsförmåga	NPD*	
Hållbarhet	Uppfyllt, se bilaga 3.3.4	
Isolering av luftljud	NPD*	
Värmeisolerande egenskaper	NPD*	
Genomträngningsförmåga för vattenånga	NPD*	

* Om ingen prestanda har fastställts för en väsentlig egenskap anges den med "NPD".

Prestandan hos föreliggande produkt motsvarar den angivna prestandan. Ovanstående tillverkare är ensam ansvarig för upprättande av prestandadeklarationen i enlighet med förordning (EU) nr 305/2011.

Undertecknas å tillverkarens vägnar av:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Unik identifikasjonskode for produkttypen:

Produkt(er): Geberit brannmansjett RS90 Plus EN

Artikkelnummer/
-numre: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Bruksformål:

“Geberit brannmansjett RS90 Plus EN” er til bruk som brannvernskott for midlertidig eller permanent opprettholdelse av brannmotstanden ved åpninger i lette veggkonstruksjoner, massive veggkonstruksjoner, sjaktvegger og tak i massive konstruksjoner som ulike plastrør føres igjennom.

3. Produsent:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Sveits
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System(er) for evaluering og kontroll av ytelsesstabilitet:

System 1

5. Europeisk vurderingsdokument:

Europeisk vurderingsdokument:	EAD 350454-00-1104 «Brannvernprodukter for tetting og lukking av fuger og åpninger og for å stoppe ild i tilfelle brann - brannvernskott»
Europeisk teknisk vurdering:	ETA-16/0001 av 20.09.2021
Teknisk vurderingsorgan:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Østerrike
Kontrollorgan(er):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Tyskland

6. Erklært ytelse:

Viktige kjennetegn	Ytelse	Teknisk spesifikasjon
Brannegenskaper	Klasse E/A1	EN 13501-1:2018
Brannmotstand	Se vedlegg fra ETA: D-1 til D-36 og F-1 bis F-45 samt 3.1.2	EN 13501-2:2016
Luftgjennomtrengelighet	NPD*	EAD 350454-00-1104
Vanngjennomtrengelighet	NPD*	
Innhold, emisjon og/eller utslipp av farlige stoffer	NPD*	
Mekanisk styrke og stabilitet	NPD*	
Bestandighet mot støt/bevegelse	NPD*	
Klebeevne	NPD*	
Holdbarhet	Oppfylt; se vedlegg 3.3.4	
Lydisolering	NPD*	
Isolasjonstekniske egenskaper	NPD*	
Vandampgjennomtrengelighet	NPD*	

* Hvis det ikke er fastsatt noen ytelse for et viktig kjennetegn, er dette angitt som «NPD».

Ytelsen til det aktuelle produktet er i samsvar med den erklærte ytelsen / de erklærte ytelsene. Produsenten som er nevnt ovenfor, er eneansvarlig for opprettelsen av ytelseserklæringen i samsvar med forordning (EU) nr. 305/2011.

Signert for produsenten og på vegne av produsenten av:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Tuotetyypin yksilöllinen tunnuskoodi:

Tuote (tuotteet): Geberit-palokatkomansetti RS90 Plus EN

Tuotenumero (-t): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Käyttötarkoitus (-tarkoitukset):

"Geberit-palokatkomansetti RS90 Plus EN" on tarkoitettu käytettäväksi osioiden palotiivistyksenä tilapäiseen tai pysyvään palonkestävyyden säilyttämiseen aukoissa kevytseinärakenteissa, massiiviseinärakenteissa, kuiluseinissä ja massiivirakenteisissa katoissa, joiden läpi erilaiset muoviputket ohjataan.

3. Valmistaja:

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www.geberit.com/declarations

4. Järjestelmä (-t) suoritustason vakauden arviointia ja tarkastusta varten:

Järjestelmä 1

5. Eurooppalainen arviointiasiakirja:

Eurooppalainen arviointiasiakirja:	EAD 350454-00-1104 "Palosuoja tuotteet saumojen ja aukkojen tiivistämiseen ja sulkemiseen sekä tulen leviämisen estämiseen tulipalon sattuessa – Osioiden palotiivistyksen"
Eurooppalainen tekninen arviointi:	ETA-16/0001 20.9.2021
Teknisestä arvioinnista vastaava laitos:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Itävalta
Ilmoitettu laitos (ilmoitetut laitokset):	Nro 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Saksa

6. Ilmoitettu suoritustaso:

Keskeiset ominaisuudet	Suorituskyky	Tekniset eritelvät
Palokäyttäytyminen	Luokka E / A1	EN 13501-1:2018
Palonkestävyys	Katso ETA:n liitteet: D-1 ... D-36 ja F-1 ... F-45 sekä 3.1.2	EN 13501-2:2016
Ilmanläpäisevyys	NPD*	EAD 350454-00-1104
Vedenläpäisevyys	NPD*	
Vaarallisten aineiden pitoisuus, päästöt ja/tai leviäminen	NPD*	
Mekaaninen lujuus ja vakavuus	NPD*	
Iskun/liikkeen kestävyys	NPD*	
Tarttuvuus	NPD*	
Kestävyys	Täytetty; katso liite 3.3.4	
Ilmamamelun eristys	NPD*	
Lämpösuojatekniset ominaisuudet	NPD*	
Vesihöyrynläpäisevyys	NPD*	

* Jos keskeiselle ominaisuudelle ei ole määritelty suorituskykyä, se on ilmoitettu merkinnällä "NPD".

Tämän tuotteen suorituskyky vastaa vakuutuksen mukaista suorituskykyä/mukaisia suorituskykyjä. Edellä mainittu valmistaja on yksin vastuussa asetuksen (EU) nro 305/2011 mukaisen suoritustasoilmoituksen laatimisesta.

Valmistajan puolesta allekirjoittanut:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Tootetüübi kordumatu identifitseerimiskood:

Toode (tooted): Geberit tulekaitsemansett RS90 Plus EN

Toote number 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
(numbrid): 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Kasutusotstarve(kasutusotstarbed):

„Geberit tulekaitsemansett RS90 Plus EN“ ette nähtud torude isolatsioonina tulekindluse ajutiseks või püsivaks säilitamiseks kergseinakonstruktsioonide, massiivseinakonstruktsioonide avades, massiivhitusega teostatud kanaliseintes ja lagedes, läbi mille paigaldatakse erinevad plasttorud.

3. Tootja:

Geberit International AG
Schachenstrasse 77
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www.geberit.com/declarations

4. Süsteem(id) toimivuse püsivuse hindamiseks ja kontrollimiseks:

Süsteem 1

5. Euroopa hindamisdokument:

Euroopa hindamisdokument:	EAD 350454-00-1104 "Tuletõkketooted vuukide ja avade tihendamiseks ja sulgemiseks ning tuletõkkeks tulekahju korral - tõkkekaitsed"
Euroopa tehniline hinnang:	ETA-16/0001 20.09.2021
Tehnilise hindamise asutus:	Austria ehitustehnikainstituut (OIB), Schenkenstrasse 4, 1010 Viin, Austria
Teavitatud asutus(ed):	Nr 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Saksamaa

6. Deklareeritud toimivus:

Põhiomadused		Toimivus	Tehniline spetsifikatsioon
	Tulekindlus	Klass E/A1	EN 13501-1:2018
	Tulekindlus	Vt ETA lisad: D-1 kuni D-36 ja F-1 kuni F-45 ning 3.1.2	EN 13501-2:2016
	Õhu läbilaskvus	NPD*	EAD 350454-00-1104
	Vee läbilaskvus	NPD*	
	Ohtlike ainete sisaldus, emissioon ja/või eraldumine	NPD*	
	Mehhaaniline vastupidavus ja stabiilsus	NPD*	
	Vastupidavus löökidele ja liikumisele	NPD*	
	Liimuvus	NPD*	
	Vastupidavus välismõjudele	Täidetud, vt lisa 3.3.4	
	Õhus leviva müra isolatsioon	NPD*	
	Soojusväärtused	NPD*	
	Veeaurude läbilaskvus	NPD*	

* Kui olulisele omadusele toimivust ei tuvastatud, on see märgitud "NPD" abil.

Eespool nimetatud toote toimivus vastab deklareeritud toimivus(t)ele. Toimivusdeklaratsiooni koostamise eest vastutab määrusega (EL) nr 305/2011 kooskõlas üksnes eespool nimetatud tootja.

Tootja eest ja nimel allkirjastanud:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Unikalusis produkto tipo identifikavimo kodas:

Gaminys (-ai): Geberit priešgaisrinė mova RS90 Plus EN

Gaminio numeris (-ai): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Naudojimo paskirtis (-s):

„Geberit priešgaisrinė mova RS90 Plus EN“ skirta naudoti kaip vamzdžių izoliacijos sistema laikinam arba nuolatiniam priešgaisrinio atsparumo palaikymui prie angų lengvose sienų konstrukcijose, masyviosiose sienų konstrukcijose, šachtų sienose ir masyvios konstrukcijos lubose, kurios numatytos įvairiems plastikiniams vamzdžiams praveisti.

3. Gamintojas:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Šveicarija
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Eksploatacinių savybių pastovumo tikrinimo ir vertinimo sistema (-os):

1 sistema

5. Europos vertinimo dokumentas:

Europos vertinimo dokumentas:	EAD 350454-00-1104 „Priešgaisrinės apsaugos gaminiai siūlėms ir angoms sandarinti bei uždaryti, ugniai sulaikyti gaisro atveju - izoliavimo sistemos“
Europos techninis vertinimas:	ETA-16/0001 2021-09-20
Techninio vertinimo įstaiga:	Austrijos statybų technikos institutas (vok. Österreichisches Institut für Bautechnik – OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Notifikuotoji (-osios) įstaiga (-os):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Deklaruojamos eksploatacinės savybės:

Esminės charakteristikos		Eksploatacinės savybės	Techninė specifikacija
	Atsparumas gaisrui	E / A1 klasė	EN 13501-1:2018
	Atsparumas ugniai	Žr. ETA priedus: nuo D-1 iki D-36 ir nuo F-1 iki F-45 bei 3.1.2	EN 13501-2:2016
	Pralaidumas orui	NPD*	EAD 350454-00-1104
	Pralaidumas vandeniui	NPD*	
	Pavojingų medžiagų dalis, emisija ir (arba) išsiskyrimas	NPD*	
	Mechaninis atsparumas ir stabilumas	NPD*	
	Atsparumas smūgiui / judesiui	NPD*	
	Sukibimas	NPD*	
	Patvarumas	Atitinka; žr. 3.3.4 priedą	
	Triukšmo izoliacija	NPD*	
	Šiluminės izoliacijos techninės savybės	NPD*	
	Pralaidumas vandens garams	NPD*	

* Jei esminei charakteristikai nėra nustatyta eksploatacinių savybių, tai yra nurodyta užrašu „NPD“.

Šio gaminio eksploatacinės savybės atitinka deklaruotas eksploatacines savybes. Už eksploatacinių savybių deklaracijos parengimą pagal Reglamentą (ES) Nr. 305/2011 atsakingas minėtas gamintojas.

Pasirašyta (gamintojas ir jo vardu):



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Unikāls izstrādājuma tipa identifikācijas numurs:

Izstrādājums(-i): Geberit ugunsdrošības manšete RS90 Plus EN

Preces numurs(-i): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Pielietojums(-i):

“Geberit ugunsdrošības manšete RS90 Plus EN” ir paredzēta izmantošanai kā cauruļu starpsiena īslaicīgai vai pastāvīgai ugunsizturības uzturēšanai atverēs vieglās sienu konstrukcijās, vienlaidu sienu konstrukcijās, šahtu sienās un pārsegumos vienlaidu konstrukcijās, caur kurām tiek izvadītas dažādas plastmasas caurules.

3. Ražotājs:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Šveice
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Eksploatācijas īpašību noturīguma novērtējuma un pārbaudes sistēma(-s):

Sistēma Nr. 1

5. Eiropas novērtējuma dokuments:

Eiropas novērtējuma dokuments:	EAD 350454-00-1104 "Ugunsdrošības un ugunsgrēka izolācijas izstrādājumi - izolācijas nodrošināšana šķērsojuma vietās"
Eiropas tehniskais novērtējums:	ETA-16/0001, 20.09.2021.
Tehniskā novērtējuma iestāde:	Austrijas Būvtehnikas institūts (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Austrija
Paziņotā(-s) iestāde(-s):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Vācija

6. Deklarētās ekspluatācijas īpašības:

Galvenās pazīmes	Ekspluatācijas īpašības	Tehniskā specifikācija
Degamība	Klase E / A1	EN 13501-1:2018
Ugunsizturība	Skatiet ETA pielikumus: no D-1 līdz D-36 un no F-1 līdz F-45, kā arī 3.1.2	EN 13501-2:2016
Gaisa caurlaidība	NPD*	EAD 350454-00-1104
Ūdens caurlaidība	NPD*	
Kaitīgu vielu izmeši, saturs un/vai izplatīšana	NPD*	
Mehāniskā stiprība un statiskā stabilitāte	NPD*	
Noturība pret triecienu/deformāciju	NPD*	
Adhēzijas spēja	NPD*	
Izturīgums	Izpildīts; skatiet 3.3.4. pielikumu	
Gaisa skaņas izolācija	NPD*	
Siltumizolācijas tehniskās īpašības	NPD*	
Ūdens tvaika caurlaidība	NPD*	

* Ja kādai no galvenajām pazīmēm nav noteiktas ekspluatācijas īpašības, tas ir norādīts ar "NPD".

Iepriekš minētā izstrādājuma ekspluatācijas īpašības atbilst deklarētajām ekspluatācijas īpašībām. Par īpašību deklarācijas sastādīšanu atbilstīgi Regulai (ES) Nr. 305/2011 atbild tikai un vienīgi iepriekš minētais ražotājs.

Parakstīts ražotāja vārdā:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Niepowtarzalny kod identyfikacyjny typu produktu:

Produkt (produkty): Tuleja ogniochronna Geberit RS90 Plus EN

Numer artykułu 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
(numery artykułów): 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Przeznaczenie:

„Tuleja ogniochronna Geberit RS90 Plus EN” można zastosować jako przegrodę przeciwpożarową w celu tymczasowego lub trwałego utrzymywania odporności ogniowej w otworach w lekkich i pełnych konstrukcjach ściennych, ścianach szybów oraz stropach w zabudowie pełnej, przez które przeprowadzane są różne rury z tworzyw sztucznych.

3. Producent:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
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product.compliance@geberit.com
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4. System (systemy) oceny i weryfikacji stałości właściwości użytkowych:

System 1

5. Europejski dokument oceny:

Europejski dokument oceny:	EAD 350454-00-1104 "Produkty przeciwpożarowe do uszczelniania i zamykania szczelin i otworów oraz do zatrzymywania ognia w razie pożaru – przegrody"
Europejska ocena techniczna:	ETA-16/0001 z 2021-09-20
Jednostka ds. oceny technicznej:	Austriacki Instytut Techniki Budowlanej (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Austria
Jednostka notyfikowana (jednostki notyfikowane):	Nr 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Niemcy

6. Deklarowane właściwości użytkowe:

Istotne cechy	Właściwości użytkowe	Specyfikacja techniczna
Charakterystyka pożarowa	Klasa E/A1	EN 13501-1:2018
Odporność ogniowa	Patrz załączniki ETA: D-1 do D-36 oraz F-1 do F-45, a także 3.1.2	EN 13501-2:2016
Przepuszczalność powietrza	NPD*	EAD 350454-00-1104
Przepuszczalność wody	NPD*	
Zawartość, emisja i/lub uwalnianie niebezpiecznych substancji	NPD*	
Wytrzymałość mechaniczna i stateczność	NPD*	
Wytrzymałość na uderzenie/przemieszczenie	NPD*	
Przyczepność	NPD*	
Wytrzymałość	Spełnia wymagania; patrz załącznik 3.3.4	
Izolacja dźwiękowa	NPD*	
Właściwości termoizolacyjne	NPD*	
Przepuszczalność pary wodnej	NPD*	

* Jeżeli dla istotnej cechy nie określono właściwości użytkowych, są one wskazane przez "NPD".

Właściwości użytkowe opisanego powyżej produktu odpowiadają właściwościom deklarowanym. Za zgodność deklaracji właściwości użytkowych z rozporządzeniem (UE) nr 305/2011 odpowiada wyłącznie wymieniony powyżej producent.

W imieniu producenta podpisał(-a):



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Jedinečný identifikační kód typu výrobku:

Výrobek (výrobky): Protipožární uzávěr Geberit 90 Plus EN

Položkové číslo (čísla): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1, 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2, 348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Účel(y) použití:

„Protipožární uzávěr Geberit 90 Plus EN“ je určen k použití jako protipožární bariéra pro dočasné nebo trvalé udržování požární odolnosti u otvorů v lehkém zdivu, masivním zdivu, ve stěnách šachet a stropech masivních konstrukcí, jimiž procházejí nejrůznější plastové trubky.

3. Výrobce:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švýcarsko
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Systém (systémy) pro hodnocení a přezkoumání trvanlivosti vlastností:

Systém 1

5. Evropský dokument pro posuzování:

Evropský dokument pro posuzování:	EAD 350454-00-1104 "Protipožární výrobky pro utěsnění a uzavření spár a otvorů a pro zabránění šíření ohně v případě požáru – protipožární bariéry"
Evropské technické posouzení:	ETA-16/0001 ze dne 20.09.2021
Technický subjekt pro posuzování:	Rakouský institut pro stavební techniku (OIB), Schenkenstrasse 4, 1010 Wien, Rakousko
Oznámený(é) subjekt(y):	č. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Německo

6. Vlastnosti uvedené v prohlášení:

Základní charakteristiky	Vlastnost	Technické specifikace
Chování při hoření	Třída E / A1	EN 13501-1:2018
Požární odolnost	Viz přílohy ETA: D-1 až D-36 a F-1 až F-45 a dále 3.1.2	EN 13501-2:2016
Prodyšnost	NPD*	EAD 350454-00-1104
Propustnost vody	NPD*	
Obsah, emise a/nebo uvolňování nebezpečných látek	NPD*	
Mechanická pevnost a stabilita	NPD*	
Odolnost vůči nárazu/pohybu	NPD*	
Přilnavost	NPD*	
Trvanlivost	Splňuje; viz příloha 3.3.4	
Zvuková izolace proti hluku šířenému vzduchem	NPD*	
Technické parametry tepelné ochrany	NPD*	
Propustnost pro vodní páru	NPD*	

* Pokud pro základní charakteristiku nebyla zjištěna žádná vlastnost, je to uvedeno pomocí "NPD".

Vlastnosti tohoto produktu odpovídá deklarované vlastnosti / deklarovaným vlastnostem. Za vystavení prohlášení o vlastnostech v souladu s nařízením (EU) č. 305/2011 odpovídá výhradně výše uvedený výrobce.

Podepsáno za výrobce a jeho jménem:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Jedinečný identifikačný kód typu výrobku:

Výrobok(-ky): Protipožiarny uzáver Geberit RS90 Plus EN
Číslo(-a) 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
výrobku(-ov): 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Účel(-y) použitia:

„Protipožiarny uzáver Geberit RS90 Plus EN“ je určená na použitie ako upchávka potrubia na dočasné alebo trvalé udržanie požiarnej odolnosti na otvoroch v ľahkých stenových konštrukciách, plných stenových konštrukciách, šachtových stenách a stropoch v pevných konštrukciách cez ktoré prechádzajú najrôznejšie plastové rúry.

3. Výrobca:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švajčiarsko
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Systém(-y) posudzovania a overovania nemennosti parametrov:

Systém 1

5. Európsky hodnotiaci dokument:

Európsky hodnotiaci dokument:	EAD 350454-00-1104 „Protipožiarné výrobky na utesnenie a zatváranie škár a servisných otvorov a na zastavenie požiaru v prípade jeho vzniku – izolácie“
Európske technické posúdenie:	ETA-16/0001 z 20.09.2021
Orgán technického posudzovania:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Rakúsko
Notifikovaný(-é) orgán(y):	č. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Nemecko

6. Deklarované parametre:

Základné charakteristiky	Parameter	Technická špecifikácia
Reakcia na oheň	Trieda E/A1	EN 13501-1:2018
Požiarne odolnosť	Pozri prílohy ETA: D-1 do D-36 a F-1 do F-45, ako aj 3.1.2	EN 13501-2:2016
Priepustnosť vzduchu	NPD*	EAD 350454-00-1104
Priepustnosť vody	NPD*	
Obsah, emisie a/alebo uvoľňovanie nebezpečných látok	NPD*	
Mechanická pevnosť a stabilita	NPD*	
Odolnosť voči nárazom/pohybu	NPD*	
Príľnavosť	NPD*	
Trvácnosť	Splnené; pozrite si prílohu 3.3.4	
Izolácia hluku šíriaceho sa vzduchom	NPD*	
Technické vlastnosti tepelnej ochrany	NPD*	
Priepustnosť vodnej pary	NPD*	

* Pokiaľ nebol určený parameter pre základnú charakteristiku, je uvedený s „NPD“.

Parameter vyššie uvedeného výrobku zodpovedá deklarovanejmu parametru/deklarovanejmu parametrom. Za vypracovanie vyhlásenia o parametroch v súlade s nariadením (EÚ) č. 305/2011 je zodpovedný výlučne vyššie uvedený výrobca.

Podpísal(-a) za a v mene výrobcu:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. A terméktípus egyedi azonosító kódja:

Termék(ek): Geberit tűzvédelmi mandzsetta RS90 Plus EN

Cikkszám(ok): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Felhasználási terület(ek):

A „Geberit tűzvédelmi mandzsetta RS90 Plus EN” csőszigetelésként való alkalmazásra tervezték a tűzállóság ideiglenes vagy állandó fenntartása érdekében könnyű- és tömör falszerkezetek, aknafalak és tömör födémek azon nyílásainál, amelyeken a legkülönbözőbb műanyag csöveket vezetik át.

3. Gyártó:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Svájc
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Rendszer(ek) a teljesítmény állandóságának értékelésére és ellenőrzésére:

1. rendszer

5. Európai értékelési dokumentum:

Európai értékelési dokumentum:	EAD 350454-00-1104 „Tűzvédelmi termékek rések és nyílások tömítéséhez és lezárásához, valamint a tűz terjedésének meggátolására - válaszfalak”
Európai műszaki értékelés:	ETA-16/0001 2021.09.20.
Műszaki értékelést végző szerv:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Bejelentett szervezet(ek):	0761 sz., MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. A nyilatkozat szerinti teljesítmény

Alapvető jellemzők	Teljesítmény	Műszaki előírások
Éghetőség	E osztály / A1	EN 13501-1:2018
Tűzállóság	Lásd ETA mellékletek: D-1 – D-36 és F-1 – F-45, valamint 3.1.2	EN 13501-2:2016
Légáteresztő képesség	NPD*	EAD 350454-00-1104
Vízáteresztő képesség	NPD*	
Veszélyesanyagok-tartalma, emissziója és/vagy kibocsátása	NPD*	
Mechanikai szilárdság és stabilitás	NPD*	
Lökéssel/mozgatással szembeni szilárdság	NPD*	
Tapadóképeség	NPD*	
Tartósság	Teljesült, lásd 3.3.4. melléklet	
Léghang szigetelés	NPD*	
Hőtechnikai tulajdonságok	NPD*	
Vízpáraáteresztés	NPD*	

* Amennyiben egy alapvető jellemzőhöz nem állapítottak meg teljesítményt, akkor ez „NPD” jelöléssel van megadva.

A termék teljesítménye megfelel a nyilatkozatban szereplő teljesítmény(ek)nek. A 305/2011 rendelet (EU) szerinti teljesítménynyilatkozat létrehozásáért a fent nevezett gyártó viseli a kizárólagos felelősséget.

A gyártó nevében és részéről aláíró személy:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Cod unic de identificare al produsului-tip:

Produs(e): Manșetă antiincendiu Geberit RS90 Plus EN

Cod(uri) articol: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Domeniu (domenii) de utilizare:

„Manșetă antiincendiu Geberit RS90 Plus EN” este prevăzută ca o compartimentare etanșă a țevii în vederea menținerii temporare sau permanente a rezistenței la incendiu la orificii din construcții din pereți de compartimentare, construcții din pereți masivi, pereți de tuneluri verticale și tavane pentru moduri de construcție masivă, prin cele mai diferite conducte din material plastic.

3. Producător:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Elveția
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistem(e) pentru evaluarea și verificarea performanței:

Sistemul 1

5. Document european de evaluare:

Document european de evaluare:	EAD 350454-00-1104 „Produse de protecție antiincendiu pentru etanșarea și închiderea de rosturi și orificii și pentru oprirea focului în caz de incendiu - compartimentări etanșe”
Evaluare tehnică europeană:	ETA-16/0001 din 20.09.2021
Organism de evaluare tehnică:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Viena, Austria
Organism(e) notificat(e):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Germania

6. Performanța declarată:

Caracteristici esențiale		Performanță	Specificație tehnică
	Comportament la foc	Clasa E / A1	EN 13501-1:2018
	Rezistență la incendiu	A se vedea anexele ETA: D-1 până la D-36 și F-1 până la F-45, precum și 3.1.2	EN 13501-2:2016
	Permeabilitatea la aer	NPD*	EAD 350454-00-1104
	Permeabilitate la apă	NPD*	
	Conținutul, emisia și/sau dispersarea substanțelor periculoase	NPD*	
	Rezistență mecanică și stabilitate	NPD*	
	Rezistență la șoc/mișcare	NPD*	
	Aderență	NPD*	
	Durabilitate	Îndeplinit; vezi anexa 3.3.4	
	Izolație fonică împotriva zgomotului propagat în aer	NPD*	
	Caracteristici tehnice de protecție termică	NPD*	
	Permeabilitate la vaporii de apă	NPD*	

* Dacă nu s-a stabilit nicio performanță pentru o caracteristică esențială, acest lucru este indicat cu „NPD”.

Performanța prezentului produs este în conformitate cu performanța/permanțele declarate. Această declarație de performanță în conformitate cu Regulamentul (UE) nr. 305/2011 este emisă pe răspunderea exclusivă a fabricantului menționat mai sus.

Semnată pentru și în numele fabricantului de către:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

ДЕКЛАРАЦИЯ ЗА ЕКСПЛОАТАЦИОННИ ПОКАЗАТЕЛИ

DoP80

Противопожарен маншет

1. Уникален идентификационен код на типа продукт:

Продукт/и: Противопожарен маншет 90 Plus EN на Geberit
Артикулен/ни номер/а: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Предназначение/я:

“Противопожарен маншет Geberit 90 Plus EN” е предназначена за употреба като защита за тръби за временно или постоянно поддържане на огнеустойчивост при отвори в леки, масивни или шахтни стени и тавани в масивна конструкция, през които преминава голямо разнообразие от метални и многослойни тръби.

3. Производител:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Швейцария
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Система/и за оценяване и изпитване на устойчивостта на експлоатационните показатели:

Система 1

5. Европейски документ за оценяване:

Европейски документ за оценяване:	EAD 350454-00-1104 „Противопожарни продукти за уплътняване и затваряне на фуги и отвори и за спиране на пожар в случай на противопожарни защиты“
Европейска техническа оценка:	ETA-16/0001 от 20.09.2021 г.
Орган за техническо оценяване:	Австрийски институт по строителни технологии (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Виена, Австрия
Нотифициран/и орган/и:	№ 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Брауншвайг, Германия

6. Декларирани експлоатационни показатели:

Съществени характеристики		Експлоатационни показатели	Техническа спецификация
	Поведение при пожар	Клас E / A1	EN 13501-1:2018
	Огнеустойчивост	Вижте Приложенията към ETA: От D-1 до D-36 и от F-1 до F-45, както и 3.1.2	EN 13501-2:2016
	Въздухопропускливост	NPD*	EAD 350454-00-1104
	Водонепроницаемост	NPD*	
	Съдържание, емисии и/или отделяне на опасни вещества	NPD*	
	Механична якост и устойчивост	NPD*	
	Устойчивост на удар/движение	NPD*	
	Прилепване	NPD*	
	Дълготрайност	Изпълнено, вижте Приложение 3.3.4	
	Въздушна звукоизолация	NPD*	
	Топлоизолационни характеристики	NPD*	
	Паропроницаемост	NPD*	

* Ако за определена съществена характеристика не са дефинирани експлоатационни показатели, това се обозначава с „NPD“.

Експлоатационните показатели на настоящия продукт отговарят на декларираната мощност/декларираните експлоатационни показатели. За съставянето на тази декларация за експлоатационни показатели в съответствие с Регламент (ЕС) № 305/2011 отговорност носи само посоченият по-горе производител.

Подписано за и от името на производителя от:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Enotna identifikacijska oznaka tipa proizvoda:

Proizvod(-i): Protipožarna objemka Geberit RS90 Plus EN
Številka(-e) artikla(-ov): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Namen(-i) uporabe:

»Protipožarna objemka Geberit RS90 Plus EN« je cevna pregrada, predvidena za začasno ali trajno ohranitev požarne odpornosti pri servisnih odprtinah v suhomontažnih stenah, masivnih stenah, stenah z inštalacijskimi jaški in stropih, skozi katere so speljane različne plastične cevi.

3. Proizvajalec:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švica
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistem(-i) za ocenjevanje in preverjanje nespremenljivosti lastnosti:

Sistem 1

5. Evropski ocenjevalni dokument:

Evropski ocenjevalni dokument:	EAD 350454-00-1104 »Izdelki za požarno zaščito za zatesnitev in zapolnitev fug in servisnih odprtin ter zadrževanje ognja ob požaru – protipožarne pregrade«
Evropska tehnična ocena:	ETA-16/0001 z dne 20.09.2021
Organ za tehnično ocenjevanje:	Avstrijski inštitut za gradbeno tehniko (Österreichisches Institut für Bautechnik – OIB), Schenkenstrasse 4, 1010 Dunaj, Avstrija
Priglašeni organ(-i):	Št. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Nemčija

6. Navedene lastnosti:

Bistvene značilnosti	Lastnosti	Tehnična specifikacija
Reakcija na ogenj	Razred E/A1	EN 13501-1:2018
Požarna odpornost	Glejte priloge ETA: D-1 do D-36 in F-1 do F-45 ter 3.1.2	EN 13501-2:2016
Prepustnost za zrak	NPD*	EAD 350454-00-1104
Prepustnost za vodo	NPD*	
Vsebnost, emisije in/ali sproščanje nevarnih snovi	NPD*	
Mehanska trdnost in stabilnost	NPD*	
Odpornost proti udarcem/premikanju	NPD*	
Oprijemljivost	NPD*	
Vzdržljivost	Izpolnjeno; glejte prilogo 3.3.4	
Zvočna izolacija	NPD*	
Tehnične lastnosti glede toplotne zaščite	NPD*	
Prepustnost za vodno paro	NPD*	

* Če lastnost neke bistvene značilnosti ni bila ugotovljena, je to navedeno z »NPD«.

Lastnosti omenjenega izdelka ustrezajo navedenim lastnostim. Za pripravo izjave o lastnostih v skladu z uredbo (EU) št. 305/2011 je odgovoren le zgoraj navedeni proizvajalec.

Podpisal za in v imenu proizvajalca:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Jedinstvena identifikacijska oznaka vrste proizvoda:

Proizvod/proizvodi: Geberit protupožarna obujmica RS90 Plus EN

Broj/brojevi artikla: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Primjena/primjene:

„Geberit protupožarna obujmica RS90 Plus EN“ predviđena je za uporabu kao protupožarna zapreka kod cijevi za privremeno ili trajno održavanje vatrootpornosti na otvorima u konstrukcijama lakih zidova, konstrukcijama masivnih zidova, stijenkama okana i stropovima u masivnom načinu gradnje, kroz koje se provode različite sistemske cijevi.

3. Proizvođač:

Geberit International AG
Schachenstrasse 77
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+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sustav/sustavi za procjenu i provjeru postojanosti svojstava:

Sustav 1

5. Europski dokument za ocjenjivanje:

Europski dokument za ocjenjivanje:	EAD 350454-00-1104 „Protupožarna sredstva za brtvljenje i zatvaranje fuga i otvora te za zadržavanje vatre u slučaju požara – protupožarne barijere“
Europska tehnička ocjena:	ETA-16/0001 od 20.09.2021.
Tijelo za tehničko ocjenjivanje:	Österreichisches Institut für Bautechnik (Austrijski institut za građevnu tehniku) (OIB), Schenkenstrasse 4, 1010 Beč, Austrija
Prijavljeno tijelo / prijavljena tijela:	Br. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Njemačka

6. Objavljeno svojstvo / objavljena svojstva:

Bitne značajke	Svojstvo	Tehnička specifikacija
Ponašanje u slučaju požara	Razred E / A1	EN 13501-1:2018
Vatrootpornost	Vidi priloge ETA: D-1 do D-36 i F-1 do F-45 kao i 3.1.2	EN 13501-2:2016
Zrakopropusnost	NPD*	EAD 350454-00-1104
Vodopropusnost	NPD*	
Sadržaj, emisija i/ili oslobađanje opasnih tvari	NPD*	
Mehanička čvrstoća i stabilnost	NPD*	
Čvrstoća na udar/kretanje	NPD*	
Sposobnost prianjanja	NPD*	
Trajnost	Ispunjeno, vidi Prilog 3.3.4	
Izolacija od zvuka koji se širi zrakom	NPD*	
Toplinsko-zaštitna tehnička svojstva	NPD*	
Propusnost za vodenu paru	NPD*	

* Ako za neku bitnu značajku nije utvrđeno svojstvo, onda je to označeno s „NPD“.

Svojstvo navedenog proizvoda odgovara objavljenom svojstvu / objavljenim svojstvima. Za sastavljanje izjave o svojstvima u skladu s Uredbom (EU) br. 305/2011 odgovoran je isključivo gore navedeni proizvođač.

Za proizvođača i u njegovo ime potpisao:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Jednoznačna šifra označavanja tipa proizvoda:

Proizvod(i): Geberit obujmica za zaštitu od požara90 Plus EN

Broj(evi) artikla: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Namjena(e):

"Geberit obujmica za zaštitu od požara90 Plus EN" je predviđena za upotrebu kao razdvajanje cevi za privremeno ili trajno održavanje otpornosti na vatru na servisnim otvorima u suvomontažnim zidovima, konstrukcijama sa masivnim zidovima, zidovima šahtova i stropovima u masivnoj konstrukciji, kroz različite plastične cevi.

3. Proizvođač:

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4. Sistem(i) za ocjenu i kontrolu stalnosti svojstava:

Sistem 1

5. Europski dokument za procjenu:

Evropski dokument za procjenu:	EAD 350454-00-1104 „Proizvodi za zaštitu od požara sa izolacijom voda za zaptivanje i zatvaranje fuga i servisnih otvora i za zadržavanje vatre u slučaju požara – pregrade“
Evropska tehnička procjena:	ETA-16/0001 od 20.9.2021
Mjesto tehničke procjene:	Austrijski institut za građevinsku tehniku (OIB), Schenkenstrasse 4, 1010 Beč, Austrija
Ovlašteno(a) tijelo(a):	Br. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Njemačka

6. Utvrđeno svojstvo / utvrđena svojstva:

Osnovne karakteristike	Svojstvo	Tehničke specifikacije
Ponašanje u slučaju požara	Klasa E / A1	EN 13501-1:2018
Otpornost na požar	Vidi dodatke ETA: D-1 do D-36 i F-1 do F-45 kao i 3.1.2	EN 13501-2:2016
Propusnost zraka	NPD*	EAD 350454-00-1104
Propusnost vode	NPD*	
Sadržaj, emisija i/ili oslobađanje opasnih materija	NPD*	
Mehanička otornost i stabilnost	NPD*	
Otpornost na udar/pomjeranje	NPD*	
Sposobnost prianjanja	NPD*	
Trajnost	Ispunjena, pogledajte prilog 3.3.4	
Izolacija zvučne buke	NPD*	
Zaštitna toplotno-tehnička svojstva	NPD*	
Propusnost vodene pare	NPD*	

* Ako za osnovnu karakteristiku nije utvrđena snaga, oznaka je "NPD".

Svojstvo navedenog proizvoda je u skladu s deklariranim svojstvom / deklariranim svojstvima. Za izradu izjave o svojstvima u skladu s (EU) Propisom broj 305/2011 odgovoran je isključivo gore navedeni proizvođač.

Potpisano za i u ime proizvođača sljedećeg proizvoda:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Jednoznačna identifikaciona šifra tipa proizvoda:

Proizvod(i): Geberit protivpožarna obujmica RS90 Plus EN

Broj(evi) artikla: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Namena(e):

"Geberit protivpožarna obujmica RS90 Plus EN" je predviđena za upotrebu kao razdvajanje cevi za privremeno ili trajno održavanje otpornosti na vatru na otvorima u suvomontažnim zidovima, konstrukcijama sa masivnim zidovima, zidovima šahtova i tavanicama u masivnoj konstrukciji, kroz različite plastične cevi.

3. Proizvođač:

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product.compliance@geberit.com
www.geberit.com/declarations

4. Sistem(i) za ocenu i proveru postojanosti svojstava:

Sistem 1

5. Evropski dokument za ocenu:

Evropski dokument za ocenu:	EAD 350454-00-1104 "Proizvodi za zaštitu od požara sa izolacijom voda za zaptivanje i zatvaranje fuga i otvora za servisiranje i za zadržavanje vatre u slučaju požara – pregrade"
Evropska tehnička ocena:	ETA-16/0001 od 20.09.2021
Mesto tehničke ocene:	Institut za građevinsku tehniku Austrije (OIB), Schenkenstrasse 4, 1010 Beč, Austrija
Notifikovano(a) mesto(a):	Br. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Nemačka

6. Navedeno(a) svojstvo(a):

Važne karakteristike	Svojstvo	Tehnička specifikacija
Ponašanje u slučaju požara	Klasa E / A1	EN 13501-1:2018
Otpornost na vatru	Vidi dodatke ETA: D-1 do D-36 i F-1 do F-45, kao i 3.1.2	EN 13501-2:2016
Propusnost vazduha	NPD*	EAD 350454-00-1104
Propusnost vode	NPD*	
Sadržaj, emisija i/ili oslobađanje opasnih materija	NPD*	
Mehanička čvrstina i stabilnost	NPD*	
Otpornost na udar/pomeranje	NPD*	
Sposobnost prianjanja	NPD*	
Trajnost	Ispunjena, pogledajte dodatak 3.3.4	
Izolacija buke koja se prenosi vazduhom	NPD*	
Svojstva koja se odnose na zaštitu od toplote	NPD*	
Propusnost vodene pare	NPD*	

* Ukoliko za važnu karakteristiku nije utvrđeno svojstvo, oznaka glasi "NPD".

Svojstvo prethodnog proizvoda odgovara navedenom svojstvu/navedenim svojstvima. Za izradu izjave o svojstvima u skladu sa odredbom (EU) br. 305/2011 odgovoran je jedino gore navedeni proizvođač.

Za proizvođača i u ime proizvođača potpisao:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Единствен идентификациски код за типот на производ:

Производ(-и): Geberit Противпожарна кошулка 90 Plus EN
Број(-еви) на артикл(-и): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Намена(-и):

„Geberit противпожарна кошулка RS90 Plus EN“ се користи за поделба на цевка за привремено или трајно одржување на отпорноста од пожари на отвори во лесни ѕидни конструкции, масивни ѕидни конструкции, ѕидни шахти и кровови во масивни градби преку различни пластични цевки.

3. Производител:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Швајцарија
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Систем(-и) за проценка и проверка за постојаност на перформанси:

Систем 1

5. Европски документ за проценка:

Европски документ за проценка:	EAD 350454-00-1104 „Противпожарни производи за заптивање и затворање фуги и отвори и за запирање пожар - поделба“
Европска техничка проценка:	ETA-16/0001 од 20.09.2021
Тело за техничка проценка:	Австриски институт за градежништво (OIB), Шенкенштрасе 4, 1010 Виена, Австрија (Schenkenstrasse 4, 1010 Wien, Österreich)
Акредитирано тело (тела):	Бр. 0761, (МРА Брауншвајг, Бетовенштрасе 52, 38106 Брауншвајг, Германија) МРА Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Деклариран перформанс:

Главни карактеристики	Перформанси	Технички спецификации
Однесување при пожар	Класа Е / А1	EN 13501-1:2018
Огноотпорност	Видете го додатокот на ЕТА: D-1 до D-36 и F-1 до F-45, како и 3.1.2	EN 13501-2:2016
Пропустливост на воздух	NPD*	EAD 350454-00-1104
Пропустливост на вода	NPD*	
Содржина, емисии и/или ослободување опасни супстанции	NPD*	
Механичка сила и стабилност	NPD*	
Отпорност на удар/движење	NPD*	
Лепливост	NPD*	
Трајност	Исполнува; видете го додатокот 3.3.4	
Воздушна звучна изолација	NPD*	
Својства во однос на отпорност на топлина	NPD*	
Пропустливост на водна пареа	NPD*	

* Ако не се прикажани перформансите за главни карактеристики, тогаш стои ознаката „NPD“.

Работата на производот соодветствува на декларираниот перформанс(-и). Производителот е одговорен за декларацијата за перформансот согласно (ЕУ) бр. 305/2011.

Потпишано од производителот и во име на производителот:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Μοναδικός κωδικός ταυτοποίησης του τύπου του προϊόντος:

Προϊόν/-τα: Μανσέτα αντιπυρικής προστασίας Geberit RS90 Plus EN
Κωδικός/-οι: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Σκοπός/-οί χρήσης:

Το »μανσέτα αντιπυρικής προστασίας Geberit RS90 Plus EN» προορίζεται για χρήση ως διάταξη στεγανοποίησης σωλήνων για προσωρινή ή μόνιμη διατήρηση της αντίστασης σε πυρκαγιά σε ανοίγματα σε ελαφριές κατασκευές τοίχων, συμπαγείς κατασκευές τοίχων, τοίχους φρεατίων και οροφές σε συμπαγή κατασκευαστική μέθοδο, μέσω των οποίων περνούν διάφοροι πλαστικοί σωλήνες.

3. Κατασκευαστής:

Geberit International AG
Schachenstrasse 77
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product.compliance@geberit.com
www.geberit.com/declarations

4. Σύστημα/-τα αξιολόγησης και επαλήθευσης της σταθερότητας της απόδοσης:

Σύστημα 1

5. Ευρωπαϊκό έγγραφο αξιολόγησης:

Ευρωπαϊκό έγγραφο αξιολόγησης:	EAD 350454-00-1104 "Προϊόντα πυροπροστασίας για στεγανοποίηση και κλείσιμο αρμών και ανοιγμάτων και για παραμονή φωτιάς σε περιορισμό πυρκαγιάς"
Ευρωπαϊκή τεχνική αξιολόγηση:	ETA-16/0001 από 20/9/2021
Οργανισμός τεχνικής αξιολόγησης:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Βιέννη, Αυστρία
Κοινοποιημένος/-οι οργανισμός/-οι:	Αρ. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Γερμανία

6. Δηλωθείσα απόδοση:

Ουσιώδη χαρακτηριστικά	Απόδοση	Τεχνική προδιαγραφή
Συμπεριφορά σε πυρκαγιά	Κατηγορία E / A1	EN 13501-1:2018
Αντίσταση σε πυρκαγιά	Βλέπε παράρτημα ETA: D-1 έως D-36 και F-1 έως F-45 καθώς και 3.1.2	EN 13501-2:2016
Αεροπερατότητα	NPD*	EAD 350454-00-1104
Υδατοπερατότητα	NPD*	
Περιεκτικότητα σε, εκπομπή και/ή απελευθέρωση επικίνδυνων ουσιών	NPD*	
Μηχανική αντοχή και ευστάθεια	NPD*	
Αντοχή σε κρούση/κίνηση	NPD*	
Πρόσφυση	NPD*	
Ανθεκτικότητα	Πληρείται, βλέπε παράρτημα 3.3.4	
Ηχομόνωση	NPD*	
Τεχνικές ιδιότητες σχετικές με την αντίσταση θερμοδιαφυγής	NPD*	
Υδρατμοπερατότητα	NPD*	

* Αν για ένα ουσιώδες χαρακτηριστικό δεν διαπιστωθεί καθόλου απόδοση, αυτό αναφέρεται με την ένδειξη "NPD".

Η απόδοση του προαναφερόμενου προϊόντος ανταποκρίνεται προς την απόδοση/τις αποδόσεις που δηλώθηκε/-αν. Η δήλωση απόδοσης εκδίδεται με αποκλειστική ευθύνη του κατασκευαστή σε συμμόρφωση με τον Κανονισμό (ΕΕ) υπ' αριθμ. 305/2011.

Υπογραφή για λογαριασμό και εξ ονόματος του κατασκευαστή από:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Kodi unik i identifikimit të tipit të produktit:

Produkti(et): Manshetë mbrojtëse ndaj zjarrit Geberit RS90 Plus EN
Numri(at) e artikullit: 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1, 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2, 348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Qëllimi(et) e përdorimit:

“Manshetë mbrojtëse ndaj zjarrit Geberit RS90 Plus EN” është menduar për t'u përdorur si një ndarje tubi për mirëmbajtjen e përkohshme ose të përhershme të rezistencës ndaj zjarrit në hapjet në konstruksionet e mureve të lehta, konstruksionet e mureve të ngurta, muret e boshtit dhe tavanet në konstruksion të fortë, përmes të cilave kalojnë një larmi të madhe të tubave plastikë.

3. Prodhuesi:

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4. Sistemi(et) për vlerësimin dhe verifikimin e qëndrueshmërisë së performancës:

Sistemi 1

5. Dokumenti i Vlerësimit Evropian:

Dokumenti i Vlerësimit Evropian:	EAD 350454-00-1104 "Produkte të mbrojtjes nga zjarri për mbylljen dhe mbylljen e nyjeve dhe hapjeve dhe për ndalimin e zjarrit në rast zjarri - pjesët kryesore"
Vlerësimi Teknik Evropian:	ETA-16/0001 nga 20.09.2021
Organi i Vlerësimit Teknik:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Organi(et) e notifikuara:	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Performanca e deklaruar:

Karakteristika themelore	Performanca	Specifikimi teknik
Sjellja në rast zjarri	Klasa E / A1	EN 13501-1:2018
Rezistenca ndaj zjarrit	Shikoni bashkëngjitjet për ETA: D-1 deri në D-36 dhe F-1 deri F-45 si dhe 3.1.2	EN 13501-2:2016
Përshkueshmëria e ajrit	NPD*	EAD 350454-00-1104
Përçueshmëria e ujit	NPD*	
Përmbajtja, emetimet dhe/ose çlirimi i lëndëve të rrezikshme	NPD*	
Rezistenca mekanike dhe qëndrueshmëria	NPD*	
Rezistenca ndaj goditjes/lëvizjes	NPD*	
Aftësia ngjitetëse	NPD*	
Qëndrueshmëria	Përmbushur; shih Shtojcën 3.3.4	
Mbytja e zhurmës së përçar nga ajri	NPD*	
Karakteristikat teknike të mbrojtjes nga nxehtësia	NPD*	
Përçueshmëria e avujve të ujit	NPD*	

* Nëse për një karakteristik themelore nuk është përcaktuar ndonjë performancë, kjo tregohet me "NPD".

Performanca e produktit të sipërpërmendur përputhet me performancën/performancat e deklaruara për të. Lëshimi i deklaratës së performancës në përputhje me Rregulloren (BE) nr. 305/2011 është përgjegjësi vetëm e prodhuesit të cituar më lart.

Nënshkruar për prodhuesin dhe në emër të prodhuesit:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Ürün türünün benzersiz kimlik kodu:

Ürün/ürünler: Geberit yangın koruma kolu RS90 Plus EN
Kod numarası/ 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
numaraları: 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Kullanım amacı/amaçları:

“Geberit yangın koruma kolu RS90 Plus EN” boruları yangından koruma özelliği ile, binaların hafif ve masif yapıli duvarlarında, niş duvarlarında ve tavanlarında açılan deliklerin/kanalların içinden geçen çeşitli plastik boruların geçici veya sürekli olarak yangına karşı dayanıklılığını sağlamak amacıyla kullanılmak üzere tasarlanmıştır.

3. Üretici:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
İsviçre
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Performans sabitliğini değerlendirmek ve doğrulamak için sistem/sistemler:

Sistem 1

5. Avrupa Değerlendirme Dokümanı:

Avrupa değerlendirme dokümanı:	EAD 350454-00-1104 "Binalardaki derzleri ve delikleri sızdırmaz hâle getirmeye ve kapatmaya yarayan, yangın çıktığında alevlerin yayılmasını önleyen yangına dayanıklı ürünler - Yalıtım bölmeleri"
Avrupa teknik değerlendirmesi:	20.09.2021 tarihli ETA-16/0001
Teknik değerlendirme durumu:	Avusturya yapı teknolojileri enstitüsü (OIB), Schenkenstrasse 4, 1010 Viyana, Avusturya
Onaylanmış kuruluş/kuruluşlar:	No. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Almanya

6. Beyan Edilen Performans:

Temel özellikler	Performans	Teknik özellikler
Yangın davranışı	E / A1 sınıfı	EN 13501-1:2018
Yangına dayanıklılık	Şu ETA eklerine bakınız: D-1'den D-36'ya, F-1'den F-45'e kadar olan Ekler ve Ek 3.1.2	EN 13501-2:2016
Hava geçirgenliği	NPD*	EAD 350454-00-1104
Su geçirgenliği	NPD*	
Tehlikeli madde miktarı, emisyonu ve/veya salımı	NPD*	
Mekanik dayanıklılık ve sağlamlık	NPD*	
Darbeye/harekete karşı dayanıklılık	NPD*	
Yapışma özelliği	NPD*	
Dayanıklılık	Sağlanmıştır, Ek 3.3.4'e bakınız	
Hava ortamında ses yalıtımı	NPD*	
Isıya karşı koruma özellikleri	NPD*	
Su buharı geçirgenliği	NPD*	

* Temel bir özellik ile ilgili herhangi bir performans değeri belirlenemediğinde bu, "NPD" kısaltması ile belirtilmiştir.

Yukarıdaki ürünün performansı beyan edilen performansa/performanslara eş değerdir. Yalnızca yukarıda belirtilen üretici 305/2011 (AB) numaralı mevzuat uyarınca performans beyannamesinin tanzim edilmesinden sorumludur.

Üretici için ve üretici adına imzalayan:

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022

Jörg Schneider
Head Product Compliance

DoP80

Противопожарная муфта

1. Однозначный идентификационный код типа изделия:

Изделие(-я): Geberit RS90 Plus EN

Артикульный(-ые) номер(-а): 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1

348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Применение(-я):

«Противопожарная муфта Geberit RS90 Plus EN» предусмотрена для использования в качестве изоляции для труб с целью временного или постоянного поддержания огнестойкости в отверстиях конструкций легких стен, капитальных стен, стен шахт, капитальных потолков, через которые проходят различные пластиковые трубы.

3. Производитель:

Geberit International AG

Schachenstrasse 77

CH-8645 Jona

Швейцария

+41 55 221 63 00

product.compliance@geberit.com

www.geberit.com/declarations

4. Система(-ы) для оценки и проверки постоянства рабочих показателей:

Система 1

5. Европейский оценочный документ:

Европейский оценочный документ:	EAD 350454-00-1104 «Противопожарная продукция для уплотнения и закрытия щелей и отверстий, а также для задержания огня в случае пожара – изоляция»
Европейская техническая оценка:	ETA-16/0001 от 20.09.2021
Орган, который провел техническую оценку:	Австрийский институт строительных технологий (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Нотифицированный(-ые) орган(-ы):	№ 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Декларируемый показатель:

Основные характеристики	Показатель	Техническая спецификация
Характеристики при пожаре	Класс E/A1	EN 13501-1:2018
Огнестойкость	См. приложения ETA: От D-1 до D-36 и от F-1 до F-45, а также 3.1.2	EN 13501-2:2016
Воздухопроницаемость	NPD*	EAD 350454-00-1104
Водопроницаемость	NPD*	
Содержание, эмиссия и/или высвобождение опасных веществ	NPD*	
Механическая прочность и стойкость	NPD*	
Прочность при ударах и перемещении	NPD*	
Адгезионная способность	NPD*	
Прочность	Выполняется, см. приложение 3.3.4	
Изоляция от воздушного шума	NPD*	
Теплоизоляционные характеристики	NPD*	
Паропроницаемость	NPD*	

* Если показатель для основной характеристики отсутствует, то ставится пометка «NPD».

Показатель вышеуказанного изделия соответствует декларируемому показателю / декларируемым показателям. За составление декларации основных показателей в соответствии с постановлением (ЕС) № 305/2011 ответственность несет исключительно указанный выше производитель.

Подписано за производителя и от его имени:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance

1. Однозначний ідентифікаційний код типу виробу:

Виріб (вироби): Протипожежна муфта Geberit RS90 Plus EN

Артикульний(-ні) 348.330.00.1, 348.331.00.1, 348.332.00.1, 348.333.00.1, 348.334.00.1, 348.335.00.1, 348.336.00.1
номер(и): 348.330.00.2, 348.331.00.2, 348.332.00.2, 348.333.00.2, 348.334.00.2, 348.335.00.2, 348.336.00.2
348.300.00.1, 348.301.00.1, 348.302.00.1, 348.303.00.1, 348.304.00.1, 348.305.00.1, 348.306.00.1

2. Призначення:

«Протипожежна муфта Geberit RS90 Plus EN» призначена для тимчасового або постійного забезпечення вогнестійкості отворів у стінах полегшеної конструкції, капітальних стінах, стінках шахт і монолітних перекриттях, через які проходять найрізноманітніші пластикові труби.

3. Виробник:

Geberit International AG
Schachenstrasse 77
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product.compliance@geberit.com
www.geberit.com/declarations

4. Система(-и) оцінки й контролю сталості робочих показників:

Система 1

5. Європейський оціночний документ:

Європейський оціночний документ:	EAD 350454-00-1104 «Матеріали й вироби для ущільнення й заповнення швів та отворів із метою перешкоджання проникненню вогню — протипожежна ізоляція»
Європейська технічна оцінка:	ETA-16/0001 від 20.09.2021
Орган, що виконав технічну оцінку:	Австрійський інститут будівельних технологій (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Нотифікований(ні) орган(и):	№ 0761, Управління з випробування матеріалів у місті Брауншвейг (MPA Braunschweig), Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Декларовані показники:

Основні характеристики		Показник	Технічна специфікація
	Вогнетривкість	Клас E/A1	EN 13501-1:2018
	Вогнестійкість	Див. додатки Європейської технічної оцінки (ETA): від D-1 до D-36, від F-1 до F-45, а також 3.1.2	EN 13501-2:2016
	Повітропроникність	NPD*	EAD 350454-00-1104
	Водопроникність	NPD*	
	Вміст, викиди та/або вивільнення небезпечних речовин	NPD*	
	Механічна міцність і стійкість	NPD*	
	Міцність щодо ударів або руху	NPD*	
	Адгезійна здатність	NPD*	
	Довговічність	Відповідає, див. додаток 3.3.4	
	Ізоляція шуму, що поширюється повітрям	NPD*	
	Теплоізоляційні властивості	NPD*	
	Паропроникність	NPD*	

* Якщо для якоїсь основної характеристики не визначено показника, вона позначається скороченням «NPD».

Показник вищезазначеного виробу відповідає декларованому показнику / декларованим показникам.

Відповідальність за складання Декларації робочих показників відповідно до Регламенту (ЄС) № 305/2011 несе виключно виробник.

Підписано за виробника та від його імені:



Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jona, 01.02.2022



Jörg Schneider
Head Product Compliance



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European Technical Assessment

ETA-16/0001
of 20.09.2021

General part

Technical Assessment Body issuing the European Technical Assessment

Österreichisches Institut für Bautechnik (OIB)
Austrian Institute of Construction Engineering

Trade name of the construction product

Rohrschott90 Plus EN

Product family to which the construction product belongs

Fire Stopping and Fire Sealing Products:
Penetration Seals

Manufacturer

Geberit International AG
Schachenstrasse 77
8645 Jona
SWITZERLAND

Manufacturing plant

Geberit International AG
Schachenstrasse 77
8645 Jona
SWITZERLAND

This European Technical Assessment contains

143 pages including Annexes A-1 to F-45 which form an integral part of this assessment

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

European Assessment Document (EAD) 350454-00-1104 "Fire stopping and fire sealing products – Penetration seals"

This European Technical Assessment replaces

European Technical Assessment ETA-16/0001 of 13.11.2017

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Specific parts

1 Technical description of the product

“Rohrschott90 Plus EN” is a pipe collar to be used as pipe penetration seal in combination with gap fillers and insulations (additional components).

Pipe collar	Characteristics
Rohrschott90 Plus EN	Pipe collar according to Annex B of the ETA with stainless sheet steel housing (thickness of steel sheet 0,5 mm, alloy 1.4510 according to EN 10088-2) and an inlay made of intumescent material

Additional components	Characteristics
Gap filler	Non-combustible material with classification A1 or A2-s1,d0 according to EN 13501-1 which is dimensionally stable as e.g. mortar, cement or gypsum joint filler or “CP611A” from manufacturer “Hilti AG” (only to be used for shaft walls)
Polyethylene sound insulation (tube)	Closed cell, flexible polyethylene foam insulation according to EN 14313 in form of tubes, faced with an outside PE foil, with a nominal thickness of 4 mm, a nominal density of 54 kg/m ³ and classification E according to EN 13501-1 (e.g. “Geberit Dämmschlauch” resp. “Geberit insulation hose” from manufacturer “Geberit International AG”, or “Tubolit AR Fonoblok” from manufacturer “Armacell GmbH”)
Polyethylene sound insulation (tape)	Closed cell, flexible polyethylene foam insulation according to EN 14313 in form of tapes, faced with an outside PE foil, with a self-adhesive device, with a nominal thickness of 3 mm, a nominal density of 54 kg/m ³ and classification E according to EN 13501-1 (e.g. “Geberit Dämmbandage” resp. “Geberit sound insulation tape” from manufacturer “Geberit International AG”)

Additional components	Characteristics
Sound insulation mat	Open cell polyurethane foam insulation in form of mats, faced with an outside heavy foil made of EPDM (ethylene propylene diene monomer) with a mineral filler and a flame retardant, with a nominal thickness of 17 mm, a nominal density of 30 kg/m ³ (foam), a nominal density of 2033 kg/m ³ (foil) and classification E according to EN 13501-1 (“Geberit Schalldämmmatte Isol Flex” resp. “Geberit sound insulation mat Isol Flex” from manufacturer “Geberit International AG”)
AF/Armaflex	Closed cell, flexible elastomeric foam (FEF) insulation in form of (slotted) tubes with classification B _L -s3,d0 – including “Armaflex 520” – according to EN 13501-1 from manufacturer “Armacell GmbH” (for details about thickness see Annex A-8 of the ETA)
AF/Armaflex Band selbstklebend (AF/Armaflex self-adhesive tape)	Closed cell, flexible elastomeric foam (FEF) insulation in form of tapes with a self-adhesive device with classification B-s3,d0 according to EN 13501-1 from manufacturer “Armacell GmbH”
Armaflex 520	Polychlorene-based adhesive, free from aromatic compounds (special adhesive for processing of all flexible Armaflex insulating material – except “HT/Armaflex”) from manufacturer “Armacell GmbH”

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document

2.1 Intended use

“Rohrschott90 Plus EN” is intended to be used as a pipe penetration seal to temporarily or permanently reinstate the fire resistance performance of flexible wall constructions, rigid wall constructions, shaft walls and rigid floor constructions where they have been provided with apertures which are penetrated by various plastic pipes.

“Rohrschott90 Plus EN” can only be installed in the types of separating elements as specified in the following table.

Separating element	Construction
Flexible walls	<ul style="list-style-type: none"> > Steel studs or timber studs lined on both faces with minimum 2 layer of boards (minimum thickness 12,5 mm) with classification A2-s1,d0 or A1 according to EN 13501-1 > For timber stud walls there shall be a minimum distance of 100 mm of the penetration seal to any timber stud. The cavity between the penetration seal and the timber stud has to be closed with minimum 100 mm of insulation with classification A1 or A2 according to EN 13501-1 > Minimum thickness 100 mm > Classification according to EN 13501-2: \geq EI 90 > This European Technical Assessment does not cover sandwich panel constructions and flexible walls were the lining does not cover studs on both sides. Penetrations in such constructions shall be tested on a case by case basis
Rigid walls	<ul style="list-style-type: none"> > Aerated concrete, concrete, masonry > Minimum thickness 100 mm > The rigid wall shall be classified in accordance with EN 13501-2 for the required fire resistance period
Shaft walls	<ul style="list-style-type: none"> > Steel studs according to EN 14195 lined on one face > Thickness (number of layers x thickness of board) and type of board: 3 x 15 mm, gypsum plasterboards type DF acc. to EN 520 with minimum reaction to fire class A2-s1,d0 according to EN 13501-1 > Between the profiles stone wool according to EN 13162 (reaction to fire class A1 according to EN 13501-1) with a density of 40 kg/m³ and a melting point > 1000 °C according to DIN 4102-17 and a thickness of 40 mm has to be installed > Nominal width of profiles: 50 mm (e.g. CW 50) > Maximum distance between steel studs: 625 mm > The mechanical resistance and stability has to be given for the required fire resistance period > Classification according to EN 13501-2: \geq EI 90
Rigid floors ¹	<ul style="list-style-type: none"> > Aerated concrete, concrete > Minimum density 550 kg/m³ > Minimum thickness 150 mm > The rigid floor shall be classified in accordance with EN 13501-2 for the required fire resistance period
	<ul style="list-style-type: none"> > Reinforced concrete > Minimum compressive strength 57 N/mm² > Minimum thickness 100 mm > The rigid floor shall be classified in accordance with EN 13501-2 for the required fire resistance period

¹ This European Technical Assessment refers to rigid floors with a minimum thickness of 150 mm, if not stated otherwise (see Annex E-14, E-20 and Annex F-24, F-40 to F-43 of the ETA).

“Rohrschott90 Plus EN” can only be configured as specified in the following tables. Other parts or service support constructions shall not penetrate the penetration seal.

Penetrating element	Construction characteristics for installation of the penetrating element in flexible walls and rigid walls
Plastic pipes	<ul style="list-style-type: none"> > “Geberit PE” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex D-1 to D-7 of the ETA > “Geberit Silent-PP” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex D-8 to D-17 of the ETA > “Geberit Silent-db20” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex D-19 to D-25 of the ETA > “Geberit Silent-Pro” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex D-26 to D-36 of the ETA

Penetrating element	Construction characteristics for installation of the penetrating element in shaft walls
Plastic pipes	<ul style="list-style-type: none"> > “Geberit Silent-PP” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex D-18 of the ETA

Penetrating element	Construction characteristics for installation of the penetrating element in rigid floors
Plastic pipes	<ul style="list-style-type: none"> > “Geberit PE” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex F-1 to F-6 and Annex F-40 of the ETA > “Geberit Silent-PP” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex F-7 to F-16 and Annex F-41 of the ETA > “Geberit Silent-db20” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex F-17 to F-25 and Annex F-42 of the ETA > “Geberit Silent-Pro” pipes from manufacturer “Geberit International AG” with diameters and wall thicknesses as defined in Annex F-26 to F-39 and Annex F-43 of the ETA

Penetrating element	Construction characteristics for installation of the penetrating element in rigid floors
Shower floor drain, cross floor	> “Geberit Duschrinne CleanLine” with “Geberit Rohbauset für Duschrinnen der Reihe CleanLine, stockwerksdurchdringende Installation” resp “Geberit shower channel CleanLine” with “Geberit installation set for shower channels of the CleanLine series, cross-floor installation” (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) from manufacturer “Geberit International AG” with a diameter and a wall thickness as defined in Annex F-44 of the ETA
	> “Geberit Duschbodenablauf stockwerksdurchdringend” resp. “Geberit shower floor drain, cross floor” (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) from manufacturer “Geberit International AG” a with diameter and a wall thickness as defined in Annex F-44 of the ETA
	> “Geberit Duschfläche Setaplano” resp. “Geberit shower surface Setaplano” (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) from manufacturer “Geberit International AG” with a diameter and a wall thickness as defined in Annex F-45 of the ETA

2.2 Use condition

“Rohrschott90 Plus EN” is intended for use at temperatures below 0 °C and with exposure to UV, but with no exposure to rain, and can therefore – according to EAD 350454-00-1104 clause 2.2.9.3.1 – be categorized as Type Y₁. Since the requirements for Type Y₁ are met, also the requirements for Type Y₂, Z₁ and Z₂ are fulfilled.

Although a penetration seal is intended for indoor applications only, the construction process may result in it being subjected to more exposed conditions for a period before the building envelope is closed. For this case provisions shall be made to protect temporarily exposed penetration seals according to the ETA-holder’s installation instructions.

2.3 Working life

The provisions made in this European Technical Assessment are based on an assumed working life of “Rohrschott90 Plus EN” of 10 years, provided the conditions laid down in the technical literature of the manufacturer relating to packaging, transport, storage, installation, use and repair are met.

The indications given on the intended working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for selecting the appropriate product in relation to the expected economically reasonable working life of the works.

The real working life might be, in normal use conditions, considerably longer without major degradation affecting the Basic requirements for construction works.

2.4 General assumptions

2.4.1 It is assumed that

- > damages to the penetration seal are repaired accordingly,
- > the installation of the penetration seal does not affect the stability of the adjacent building element – even in case of fire,
- > the lintel or floor above the penetration seal is designed structurally and in terms of fire protection such that no additional mechanical load (other than its own weight) is imposed on the penetration seal,
- > the thermal movement in the pipe work will be accommodated in such way that it does not impose a load on the penetration seal,
- > the installations are fixed to the adjacent building element in accordance with the relevant regulations in such a way that, in case of fire, no additional mechanical load is imposed to the penetration seal,
- > the support of the installations is maintained for the required period of fire resistance and
- > pneumatic dispatch systems, compressed air systems, etc. are switched off by additional means in case of fire.

2.4.2 This European Technical Assessment does not address any risks associated with the emission of dangerous liquids or gases caused by failure of the pipe(s) in case of fire nor does it prove the prevention of the transmission of fire through heat transfer via the medium in the pipes.

2.4.3 This European Technical Assessment does not verify the prevention of destruction of adjacent building elements with fire separating function or of the pipes themselves due to distortion forces caused by extreme temperatures. These risks shall be accounted for by taking appropriate measures when designing or installing the pipe work.

The mounting or hanging of the pipes or the layout of the pipe work shall be implemented in such a way that the pipes and the fire resistant building elements shall remain functional within a period of time which corresponds to the fire resistance period required.

2.4.4 The risk of downward spread of fire caused by burning material which drips through a pipe to floors below, is not considered in this European Technical Assessment (see EN 1366-3:2009, clause 1).

2.4.5 The durability assessment does not take account of the possible effect on the penetration seal of substances permeating through the pipe walls.

2.4.6 The assessment does not cover the avoidance of destruction of the penetration seal or of the adjacent building element(s) by forces caused by temperature changes in case of fire. This has to be considered when designing the piping system.

2.5 Manufacturing

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with the Österreichisches Institut für Bautechnik, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to the Österreichisches Institut für Bautechnik before the changes are introduced. Österreichisches Institut für Bautechnik will decide whether or not such changes affect the European Technical Assessment and consequently the validity of the CE marking on the basis of the European Technical Assessment and if so whether further assessment or alterations to the European Technical Assessment, shall be necessary.

3 Performance of the product and references to the methods used for its assessment

Basic requirements for construction works	Essential characteristic	Method of verification	Performance
BWR 2	Reaction to fire	EN 13501-1:2018	Clause 3.1.1 of the ETA
	Resistance to fire	EN 13501-2:2016	Clause 3.1.2 of the ETA and Annex D-1 to D-36 and Annex F-1 to F-45 of the ETA
BWR 3	Air permeability	No performance assessed	
	Water permeability	No performance assessed	
	Content, emission and/or release of dangerous substances	No performance assessed	
BWR 4	Mechanical resistance and stability	No performance assessed	
	Resistance to impact / movement	No performance assessed	
	Adhesion	No performance assessed	
	Durability	EAD 350454-00-1104 clause 2.2.9	Clause 3.3.4 of the ETA
BWR 5	Airborne sound insulation	No performance assessed	
BWR 6	Thermal properties	No performance assessed	
	Water vapour permeability	No performance assessed	

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

The components of "Rohrschott90 Plus EN" were assessed according to EAD 350454-00-1104 clause 2.2.1 and classified according to EN 13501-1:2018

Pipe collar	Class according to EN 13501-1:2018
Intumescent inlay of Rohrschott90 Plus EN	E
Sheet steel housing of Rohrschott90 Plus EN	A1

3.1.2 Resistance to fire

“Rohrschott90 Plus EN” was tested according to EAD 350454-00-1104 clause 2.2.2, prEN 1366-3.2:N185:2007-07 and EN 1366-3:2009 in conjunction with EN 1363-1:1999.

Based upon the gained test results and the field of application specified within prEN 1366-3.2:N185:2007-07 and EN 1366-3:2009 the pipe penetration seal “Rohrschott90 Plus EN” has been classified according to EN 13501-2:2016.

The fire resistance classes of the pipe penetration seal “Rohrschott90 Plus EN” in the relevant separating elements are listed in Annex D-1 to D-36 and Annex F-1 to F-45 of the ETA.

The resistance to fire classification of the pipe penetration seal “Rohrschott90 Plus EN” in shaft walls listed in Annex D-18 of the ETA is only valid in case of fires outside the shaft. This European Technical Assessment does not cover the case of fires within shafts.

The resistance to fire classification listed in Annex D-1 to D-36 and Annex F-1 to F-45 of the ETA is only valid if “Rohrschott90 Plus EN” is installed according to Annex A-1 to A-12 of the ETA.

3.2 Hygiene, health and the environment (BWR 3)

3.2.1 Air permeability

No performance assessed.

3.2.2 Water permeability

No performance assessed.

3.2.3 Content, emission and/or release of dangerous substances

No performance assessed.

3.3 Safety and accessibility in use (BWR 4)

3.3.1 Mechanical resistance and stability

No performance assessed.

3.3.2 Resistance to impact / movement

No performance assessed.

3.3.3 Adhesion

No performance assessed.

3.3.4 Durability

The metal housing of “Rohrschott90 Plus EN” is made of ferritic stainless steel (alloy 1.4510) according to EN 10088-2.

According to EAD 350454-00-1104 clause 2.2.9.2.5 and Annex B of EN 10088-1 ferritic stainless steels have relatively low corrosion resistance and their use should normally be restricted to mild indoor or similarly protected environments. This type of stainless steel is appropriate for use in use conditions Y₁, Y₂, Z₁ and Z₂.

The intumescent inlay of “Rohrschott90 Plus EN” fulfils the requirements for use at temperatures below 0 °C and with exposure to UV, but with no exposure to rain and can – according to EAD 350454-00-1104 clause 2.2.9.3.1 – be categorized as Type Y₁.

“Rohrschott90 Plus EN” fulfils the requirements for the intended use condition.

“Rohrschott90 Plus EN” is therefore appropriate for use at temperatures below 0 °C and with exposure to UV, but with no exposure to rain, and can – according to EAD 350454-00-1104 clause 2.2.9.3.1 – be categorized as Type Y₁. Since the requirements for Type Y₁ are met, also the requirements for Type Y₂, Z₁ and Z₂ are fulfilled.

3.4 Protection against noise (BWR 5)

3.4.1 Airborne sound insulation

No performance assessed.

3.5 Energy economy and heat retention (BWR 6)

3.5.1 Thermal properties

No performance assessed.

3.5.2 Water vapour permeability

No performance assessed.

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4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

4.1 AVCP system

According to the Decision 1999/454/EC², amended by Decision 2001/596/EC³ of the European Commission the system(s) of assessment and verification of constancy of performance (see Annex V of Regulation (EU) No 305/2011) is given in the following table.

Product(s)	Intended use(s)	Level(s) or class(es) (resistance to fire)	System of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	for fire compartmentation and/or fire protection or fire performance	any	1

In addition, according to the Decision 1999/454/EC, amended by Decision 2001/596/EC of the European Commission the system(s) of assessment and verification of constancy of performance, with regard to reaction to fire, is given in the following table.

Product(s)	Intended use(s)	Level(s) or class(es) (reaction to fire)	System of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	for uses subject to regulations on reaction to fire	A1*, A2*, B*, C*	1
		A1**, A2**, B**, C**, D, E	3
		(A1 to E) ^{***} , F	4
<p>* Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)</p> <p>** Products/materials not covered by footnote (*)</p> <p>*** Products/materials that do not require to be tested for reaction to fire (e.g. products/materials of class A1 according to Commission Decision 96/603/EC, as amended)</p>			

² Official Journal of the European Communities no. L 178, 14.7.1999, p. 52

³ Official Journal of the European Communities no. L 209, 2.8.2001, p. 33

5 Technical details necessary for the implementation of the AVCP system, as provided for the applicable European Assessment Document

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the Technical Assessment Body Österreichisches Institut für Bautechnik.

The notified product certification body shall visit the factory at least twice a year for surveillance of the manufacturer.

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by Österreichisches Institut für Bautechnik

The original document is signed by:

Rainer Mikulits
Managing Director

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1 General

- > "Rohrschott90 Plus EN" can be used on plastic pipes and shower floor drain, cross floor (including the corresponding "Geberit PE" pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) according to clause 2.1 of the ETA in walls (vertical separating element) and floors (horizontal separating element) according to clause 2.1 of the ETA.
- > Each plastic pipe (and shower floor drain, cross floor (including the corresponding "Geberit PE" pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1)) which is to be sealed off has to be equipped separately with "Rohrschott90 Plus EN". For details see Annex C-1 to C-13 and Annex E-1 to E-23 of the ETA.

1.1 Pipe end configuration

- > For plastic pipes and shower floor drain, cross floor (including the corresponding "Geberit PE" pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) classified with pipe end configuration U/U the pipe end configuration can be U/U, C/U, U/C, C/C.

1.2 Orientation of the penetrating elements

- > Plastic pipes in flexible walls, rigid walls and rigid floors can be installed perpendicular to the surface of the separating element or in all angles between 90° and 45°. For details see Annex D-1 to D-3, D-6 to D-10, D-13 to D-17, D-19 to D-21, D-24 to D-28, D-31 to D-36 and F-1 to F-3, F-6 to F-9, F-11 to F-19, F-25 to F-28, F-33 to F-39 of the ETA.
- > Plastic pipes with Sound insulation mat according to clause 1 of the ETA or "AF/Armaflex" in flexible walls, rigid walls and rigid floors, shower floor drain, cross floor (including the corresponding "Geberit PE" pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) in rigid floors and "Geberit Silent-db20" pipes with a diameter of 110 mm in concrete floors (rigid floors; see Annex E-14 and Annex F-24 of the ETA) with pipe collars fixed to the integrated fastenings of "Geberit Schalungsschoner mit integrierter Befestigung" (Geberit formwork guard with integrated fastening) have to be installed perpendicular to the surface of the separating element. For details see Annex D-4, D-5, D-11, D-12, D-22, D-23, D-29, D-30 and F-4, F-5, F-10, F-20 to F-24, F-29 to F-32, F-40 to F-45 of the ETA.
- > Plastic pipes in shaft walls have to be installed perpendicular to the surface of the shaft wall. For details see Annex D-18 of the ETA.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-1

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1.3 Service support constructions

- > All plastic pipes (except for shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1)) have to be supported by service support constructions (e.g. pipe hangers) made of metal with a melting or decomposition point greater or equal than 1006 °C for EI 90 (e.g. stainless steel or galvanized steel) according to the ETA-holder’s installation instructions.
- > In rigid walls, flexible walls and shaft walls the pipes have to be supported on both sides of the separating element.
- > In rigid floors the pipes have to be supported on the top side of the separating element.
- > In case of shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) the corresponding “Geberit PE” pipes and the PE-HD siphon according to EN 1519-1 or EN 12666-1 have to be supported resp. fixed according to the technical literature of the manufacturer.
- > The first support (service support construction) for plastic pipes – installed perpendicular to the surface of the separating element – in flexible walls and rigid walls has to be at the distance as given in the following table (measured from the surface of the separating element).

Nominal diameter pipe	Geberit PE	Geberit Silent-PP	Geberit Silent-db20	Geberit Silent-Pro
	Distance (mm)			
DN 50/56	700	700	450	700
DN 75	700	700	650	700
DN 90	800	800	800	800
DN 100	1000	1000	1000	1000
DN 125	1200	1200	1200	1200
DN 150	1500	1500	1500	1500
DN 200	1900	---	---	---

- > The first support (service support construction) for plastic pipes – installed in an angle between 90° and 45° – in flexible walls and rigid walls has to be at maximum 500 mm (measured from the surface of the separating element).
- > The first support (service support construction) for “Geberit Silent-PP” pipes – installed perpendicular to the surface of the separating element – in shaft walls has to be at maximum 830 mm (measured from the surface of the separating element).
- > The first support (service support construction) for plastic pipes – installed perpendicular to the surface of the separating element or in an angle between 90° and 45° – in rigid floors has to be at maximum 500 mm (measured from the surface of the separating element).
- > All plastic pipes have to be fixed according to the ETA-holder’s installation instructions to the service support construction.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-2

2 Details for installation of “Rohrschott90 Plus EN” (see Annex B to F-45 of the ETA)

- > “Rohrschott90 Plus EN” has to be installed according to the ETA-holder’s installation instructions.
- > The smallest pipe collar corresponding to the relevant outer diameter of the pipe and shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) to be sealed off has to be used (see Annex B of the ETA).
- > In case of pipe collars on connection sleeves and “Geberit Elektroschweißmuffe” (Geberit electrofusion sleeve coupling) from manufacturer “Geberit International AG”, the next available dimension (type) of the pipe collar corresponding to the pipe diameter of the relevant pipe to be sealed off has to be used (e.g. for pipes with an outer diameter of 110 mm where in standard cases a pipe collar of type DN 100 has to be used, a pipe collar of type DN 125 has to be used).
- > In case of pipe collars on Sound insulation mat according to clause 1 of the ETA, the next available dimension (type) of the pipe collar corresponding to the pipe diameter of the relevant pipe to be sealed off (except for pipes with an outer diameter of 75 mm) has to be used (e.g. for pipes with an outer diameter of 110 mm where in standard cases a pipe collar of type DN 100 has to be used, a pipe collar of type DN 125 has to be used). For pipes with an outer diameter of 75 mm a pipe collar of type DN 100 has to be used.
- > In case of pipe collars on “AF/Armaflex”, the next available dimension (type) of the pipe collar corresponding to the pipe diameter of the relevant pipe to be sealed off has to be used (e.g. for pipes with an outer diameter of 110 mm where in standard cases a pipe collar of type DN 100 has to be used, a pipe collar of type DN 125 has to be used).
- > In case of “Geberit Silent-db20” pipes with a diameter of 110 mm in rigid floors (see Annex E-14 and Annex F-24 of the ETA) with pipe collars (optionally on “Geberit Elektroschweißmuffe” (Geberit electrofusion sleeve coupling)) fixed to the integrated fastenings of “Geberit Schalungsschoner mit integrierter Befestigung” (Geberit formwork guard with integrated fastening) a pipe collar of type DN 125 has to be used.
- > For vertical separating elements (except shaft walls) the pipe collars have to be installed on both sides of the separating element.
- > For shaft walls the pipe collars have to be installed outside the shaft.
- > For horizontal separating elements the pipe collars have to be installed at the bottom side of the separating element.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-3

- > In case of pipe collars installed partially within the separating element or flushed within the separating element the distance between the front face bottom side of the pipe collar and the separating element has to be as given in the following table (measured from the surface of the separating element).

Pipe collar type	Flexible wall / Rigid wall		Rigid floor
	Distance (mm)	Minimum thickness in case of pipe collars installed flushed within the separating element (mm)	Distance (mm)
DN 32-56	0* to 40	100	0* to 40
DN 60 / 70	0* to 40	100	0* to 40
DN 90	0* to 40	100	0* to 40
DN 100	0* to 40	100	0* to 40
DN 125	20 to 60	---	0* to 60
DN 125**	45 to 60***	---	0* to 60
DN 125**	0* to 60	140	0* to 60
DN 150	30 to 55	---	0* to 50
DN 150**	55***	---	0* to 50
DN 150**	0* to 55	160	0* to 50
DN 200	40 to 65	---	0* to 60

* in these cases the pipe collar is installed flushed within the separating element

** only for plastic pipes "Geberit Silent-Pro"

*** the distance between the two pipe collars within the separating element has to be minimum 50 mm

- > In case of pipe collars installed flushed within the separating element (flexible wall and rigid wall) the distance between the front face top side of the two pipe collars has to be 0 mm.
- > In case of pipe collars on connection sleeves of "Geberit Silent-PP" pipes installed partially within the separating element (flexible wall and rigid wall) the distance between the front face bottom side of the pipe collar and the separating element has to be 10 mm.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-4

2.1 Fixing

- > For flexible walls the pipe collars have to be fixed by threaded steel bolts (thread size M6 for type DN 32-56 to DN 200; length \geq thickness of the separating element) and on both sides of the separating element with washers and nuts (corresponding to the outer diameter of the threaded steel bolts).
- > For shaft walls the pipe collars have to be fixed by appropriate steel screw anchors (outer diameter 6 mm; length 45 mm).
- > For rigid walls and rigid floors (except pipe collars type DN 150 and DN 200 for aerated concrete floors) the pipe collars have to be fixed by threaded steel bolts (thread size M6 for type DN 32-56 to DN 200; length \geq thickness of the separating element) and on both sides of the separating element with washers and nuts (corresponding to the outer diameter of the threaded steel bolts) or self-drilling screws (outer diameter 7,5 mm; length 60 mm; only for rigid floors with a thickness of minimum 150 mm).
- > For aerated concrete floors the pipe collars type DN 150 and DN 200 have to be fixed by threaded steel bolts (thread size M6; length \geq thickness of the separating element) and on both sides of the separating element with washers and nuts (corresponding to the outer diameter of the threaded steel bolts).
- > In case of "Geberit Silent-db20" pipes with a diameter of 110 mm in concrete floors (rigid floors; see Annex E-14 and Annex F-24 of the ETA) the pipe collars can alternatively be fixed to the four threads of the integrated fastenings (thread size M8) of "Geberit Schalungsschoner mit integrierter Befestigung" (Geberit formwork guard with integrated fastening) with washers and nuts (corresponding to the outer diameter of the threads of the integrated fastening).
- > In case of pipe collars installed partially within the separating element or flushed within the separating element no additional mechanical fixing (e.g. threaded steel bolts) is required. In these cases the fixing lugs have to be bended outwards at the axis of the bores in an angle of 90° so that an "L" is formed.
- > In case of two adjoining pipe collars (back to back) in flexible walls or rigid walls, installed partially within the separating element or flushed within the separating element, the pipe collars can be optionally fixed together by threaded steel bolts (thread size M6) and nuts (corresponding to the outer diameter of the threaded steel bolts) or hexagonal steel bolts (thread size M6) and nuts (corresponding to the outer diameter of the hexagonal steel bolts). The number of fixing lugs shall not be reduced.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-6

2.2 Insulation

2.2.1 Polyethylene sound insulation (tube or tape)

- > Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA can be used.
- > In case of shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA has to be used.
- > The pipes and the shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) can be insulated in the penetration area exclusively as well as at their complete length.
- > The polyethylene sound insulation with an overall thickness of 4 mm has to project the pipe collar on both sides of the separating element by minimum 50 mm (except for shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) where in some cases the Polyethylene sound insulation can end at the top side of the floor (see Annex E-21 to E-23 of the ETA)).
- > The polyethylene sound insulation in form of tubes can either be pushed tightly onto the pipe or slotted and wrapped tightly around the pipe or the shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) and has to be additionally fixed by adhesive tape.
- > The polyethylene sound insulation in form of tapes has to be wrapped tightly around the pipe or the shower floor drain, cross floor (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1).
- > For further details see technical literature of the manufacturer.

2.2.2 Sound insulation mat

- > In some cases (see Annex C-4, D-4, D-11, D-22, D-29, E-5 to E-7, F-20 and F-29 to F-31 of the ETA) Sound insulation mat according to clause 1 of the ETA can be used.
- > The pipes can be insulated in the penetration area exclusively as well as at their complete length.
- > The sound insulation mat with a thickness of 17 mm has to project the separating element on both sides of the separating element by minimum 500 mm.
- > The sound insulation mat has to be wrapped tightly around the pipe and additionally fixed by adhesive tape.
- > For further details see technical literature of the manufacturer.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-7

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2.2.3 AF/Armaflex

- > In some cases (see Annex C-5, D-5, D-12, D-23, D-30 and E-8, F-4, F-10, F-21, F-32 of the ETA) plastic pipes can be insulated (local-sustained or continued-sustained) with “AF/Armaflex”.
- > The tube of “AF/Armaflex” has to be installed centred in the opening of the separating element so that it protrudes the separating element on both sides by ≥ 500 mm (measured from the surface of the separating element) and that it is continuous (without butt joints) along the required minimum insulation length.
- > The tube of “AF/Armaflex” can be either pushed onto the pipe or slotted and glued at the longitudinal joint.
- > When installing “AF/Armaflex” all longitudinal joints have to be glued with “Armaflex 520” and covered with “AF/Armaflex Band selbstklebend” (AF/Armaflex self-adhesive tape).
- > The amount of “Armaflex 520” shall not be more than 300 g/m^2 .
- > The strip of “AF/Armaflex Band selbstklebend” (AF/Armaflex self-adhesive tape) has to be $50 \text{ mm} \times 3 \text{ mm}$ (width x thickness).
- > The thickness of the tube of “AF/Armaflex” (in accordance with the outer diameter of the pipe to be sealed off) has to be as given in the following table resp. Annex D-5, D-12, D-23, D-30 and F-4, F-10, F-21, F-32 of the ETA.

Outer diameter of the pipe (mm)	Thickness of AF/Armaflex (mm)
50	13,5
56 / 63 / 75	14
90	14,5
110	15 to 18*
125	15 to 23,5
135	15 to 24
160	15 to 25

* in case of “Geberit PE” pipes and “Geberit Silent-db20” pipes in rigid floors the thickness of “AF/Armaflex” can be 15 mm to 23,5 mm

- > For further details see technical literature of the manufacturer.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-8

2.3 Annular gap

- > The annular gap (width 10 mm to 30 mm) between the pipe and shower floor drain, cross floor (including the corresponding "Geberit PE" pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) to be sealed off and the flexible wall, rigid wall or the rigid floor (vertical separating element or horizontal separating element) has to be completely (over the entire thickness of the separating element) filled with Gap filler according to clause 1 of the ETA on both sides of the separating element.
- > In case of "Geberit Silent-db20" pipes with a diameter of 110 mm in rigid floors (see Annex E-14 and Annex F-24 of the ETA) with pipe collars fixed to the integrated fastenings of "Geberit Schalungsschoner mit integrierter Befestigung" (Geberit formwork guard with integrated fastening) no annular gap is permitted. The "Geberit Schalungsschoner mit integrierter Befestigung" (Geberit formwork guard with integrated fastening) has to be directly embedded in the concrete floor (rigid floor), whereas the covering has to be ≥ 108 mm. In the area of the "Geberit Schalungsschoner mit integrierter Befestigung" (Geberit formwork guard, with integrated fastening) which is to be removed after the installation of the "Geberit Silent-dB20" pipe, a hole on the bottom side of the floor of dimension 200 mm x 200 mm x 42 mm (length x width x height) remains. For further details about installation see technical literature of the manufacturer resp. Annex E-14 of the ETA.
- > The annular gap (width 10 mm to 50 mm) – in case of pipe collars installed partially within the separating element – between the pipe to be sealed off resp. the pipe collar and the flexible wall, rigid wall or the rigid floor (vertical separating element or horizontal separating element) has to be completely (over the entire thickness of the separating element) filled with Gap filler according to clause 1 of the ETA on both sides of the separating element.
- > The annular gap (width 20 mm to 50 mm) – in case of pipe collars installed flushed within the separating element – between the pipe to be sealed off resp. the pipe collar and the flexible wall, rigid wall or the rigid floor (vertical separating element or horizontal separating element) has to be completely (over the entire thickness of the separating element) filled with Gap filler according to clause 1 of the ETA on both sides of the separating element.
- > In case of pipe collars type DN 32-56, DN 60 / DN 70 and DN 125 – installed partially within the separating element or flushed within the separating element – the gap between the pipe to be sealed off and the intumescent inlay of the pipe collar has to be completely closed with Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA to ensure that no Gap filler according to clause 1 of the ETA runs into the gap.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-9

- > In case of pipe collars on connection sleeves and “Geberit Elektroschweißmuffe” (Geberit electrofusion sleeve coupling) from manufacturer “Geberit International AG” – installed partially within the separating element or flushed within the separating element – the gap between the pipe to be sealed off and the intumescent inlay of the pipe collar has to be completely closed with Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA to ensure that no Gap filler according to clause 1 of the ETA runs into the gap.
- > The annular gap (width 10 mm to 20 mm) between the pipe to be sealed off and the shaft wall (vertical separating element) has to be completely (over the entire thickness of the separating element) filled with gap filler “CP611A” according to clause 1 of the ETA on both sides of the separating element.
- > In case of non-insulated flexible walls it has to be ensured that the cavity of the flexible wall around the annular gap is filled with stone wool with classification A2-s1,d0 or A1 according to EN 13501-1.

2.4 Installation of pipe collar on pipes in an angle between 90° and 45° in flexible walls and rigid walls (additional information) (see Annex C-8 to C-11 of the ETA)

- > The pipe collars can only be installed partially within the separating element or flushed within the separating element.
- > In these cases, one side (front face bottom side or front face top side) of the housing of each pipe collar has to be in contact with the surface of the separating element (see Annex C-8 to C-11, D-6, D-7, D-15 to D-17, D-24, D-25 and D-33 to D-36 of the ETA).
- > The distance between the two pipe collars within the separating element has to be minimum 50 mm.
- > The two pipe collars shall not be fixed together or fixed to the separating element.
- > If these provisions cannot be fulfilled due to the thickness of the separating element, the thickness of the separating element has to be increased by installing a board frame of minimum dimension 100 mm x 100 mm (width x height; measured from the surface of the pipe) made of boards (gypsum boards or silicate- or calcium silicate boards) with a thickness of minimum 12,5 mm and classification A2-s1,d0 or A1 according to EN 13501-1 around the pipe. The board frame has to be installed and fixed according to the ETA-holder’s installation instructions.
- > The cavity within the separating element around the pipe resp. the pipe collar has to be completely (over the entire thickness of the separating element) filled with Gap filler according to clause 1 of the ETA on both sides of the separating element.
- > The front face bottom side of the pipe collars on both sides of the separating element shall not be covered by Gap filler according to clause 1 of the ETA.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-10

2.5 Installation of pipe collar on pipes in an angle between 90° and 45° in rigid floors (additional information) (see Annex E-15 to E-18 of the ETA)

- > The pipe collars can only be installed partially within the separating element or flushed within the separating element.
- > In these cases, one side (front face bottom side or front face top side) of the housing of the pipe collar has to be in contact with the surface of the separating element (see Annex E-15 to E-18, F-6, F-14 to F-16, F-25 and F-36 to F-39 of the ETA).
- > The pipe collar has to be installed in such a way, that the highest point of the housing is covered by minimum 50 mm (see Annex E-15 to E-18 of the ETA).
- > The pipe collar shall not be fixed to the separating element.
- > If these provisions cannot be fulfilled due to the thickness of the separating element, the thickness of the separating element has to be increased by installing a partial doubling of minimum dimension 100 mm x 100 mm (width x height; measured from the surface of the pipe) made of mortar with classification A1 according to EN 13501-1. The partial doubling has to be realised according to the ETA-holder's installation instructions.
- > The cavity within the separating element around the pipe resp. the pipe collar has to be completely filled with mortar with classification A1 according to EN 13501-1 to clause 1 of the ETA on both sides of the separating element.
- > The front face bottom side of the pipe collar on the bottom side of the horizontal separating element shall not be covered by Gap filler according to clause 1 of the ETA.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-11

3 Minimum working clearances

- > The minimum distance between two pipes (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors is 100 mm (measured from the surface of the pipe collar).
- > In some cases (see Annex C-13 and E-19 of the ETA as well as Annex D-1 to D-3, D-8 to D-10, D-19 to D-21, D-26 to 28, F-1 to F-3, F-7 to F-9, F-17 to F-19, F-26 to F-28 and F-33 to F-35 of the ETA) the minimum distance between two pipes (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors can be 0 mm (measured from the surface of the pipe collar).
- > The minimum distance between two pipes (linear arrangement, no clusters) in shaft walls is 100 mm (measured from the surface of the pipe collar).
- > The minimum distance to other installations or penetration seals in flexible walls, rigid walls shaft walls or rigid floors is 100 mm.

4 Transport and storage

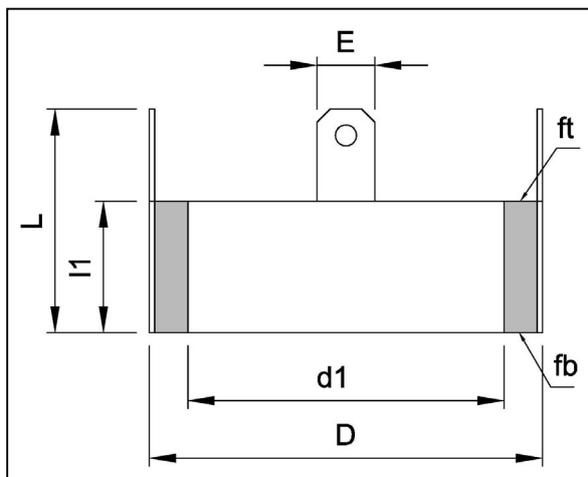
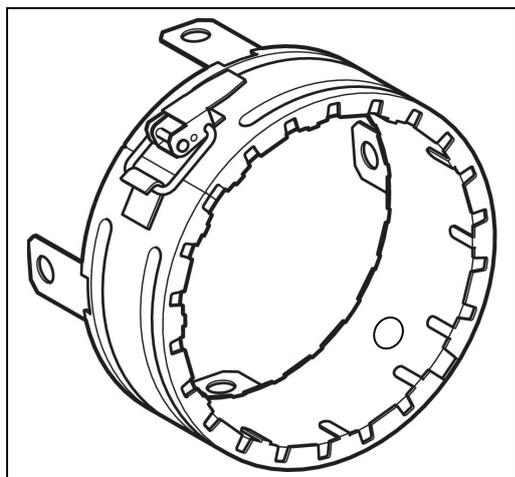
- > The indications of the manufacturer regarding transport and storage (minimum and maximum storing temperature, maximum duration of storage) have to be followed.

5 Use, maintenance and repair

- > The fire resistance of the penetration seal shall not be negatively affected by future changes to buildings or building elements.
- > The assessment of the fitness for use is based on the assumption that necessary maintenance and repair if required is carried out in accordance with the manufacturer's instructions during the assumed intended working life.

Rohrschott90 Plus EN
- Details for installation -

ANNEX A-12



thickness of sheet steel of pipe collar 0,50 mm
thickness of sheet steel of fixing lugs 0,80 mm

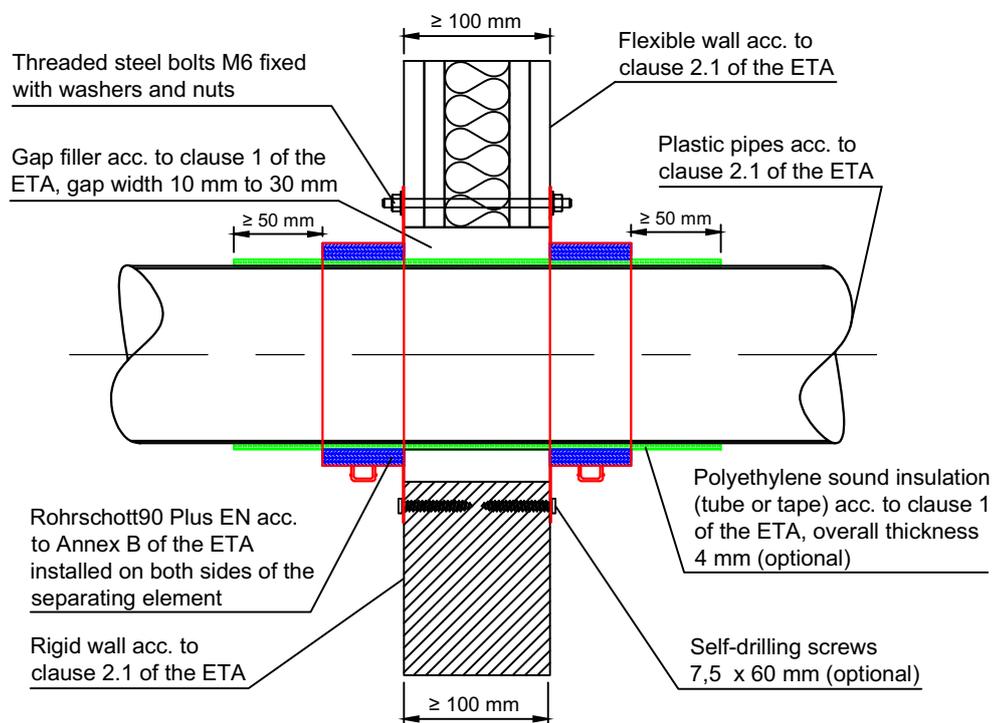
collar					active component		fixing lugs			fastener
type (---)	d1 (mm)	D (mm)	I1 (mm)	L (mm)	C (---)	I1 (mm)	E (mm)	P (pcs)	F (mm)	Q (pcs)
DN 32-56	63,4	78,0 ± 1,5	50	85	2	48 ± 0,5	22	3	8	1
DN 60 / 70	82,5	102,1 ± 1,5	50	85	3	48 ± 0,5	22	3	8	1
DN 90	97,7	119,0 ± 1,7	50	85	4	48 ± 0,5	22	3	8	1
DN 100	117,8	145,2 ± 1,7	50	85	5	48 ± 0,5	22	4	8	1
DN 125	141,4	170,1 ± 1,9	70	105	5	68 ± 0,5	22	4	8	2
DN 150	169,2	206,3 ± 2,1	80	115	8	78 ± 0,5	22	5	8	2
DN 200	207,2	272,1 ± 2,3	90	125	13	88 ± 0,5	22	6	8	2

d1... inner diameter of collar
I1.... height of collar / active component
L..... height of collar including fixing lugs
C.... number of layers (thickness of active component 2,2 mm - 0 mm / + 0,30 mm)
D.... outer diameter of collar
E.... width of fixing lugs
F.... diameter of bores
P.... number of fixing lugs
Q.... number of fastener
fb.... front face bottom side
ft.... front face top side

- Description of pipe collar "Rohrschott90 Plus EN" -

ANNEX B

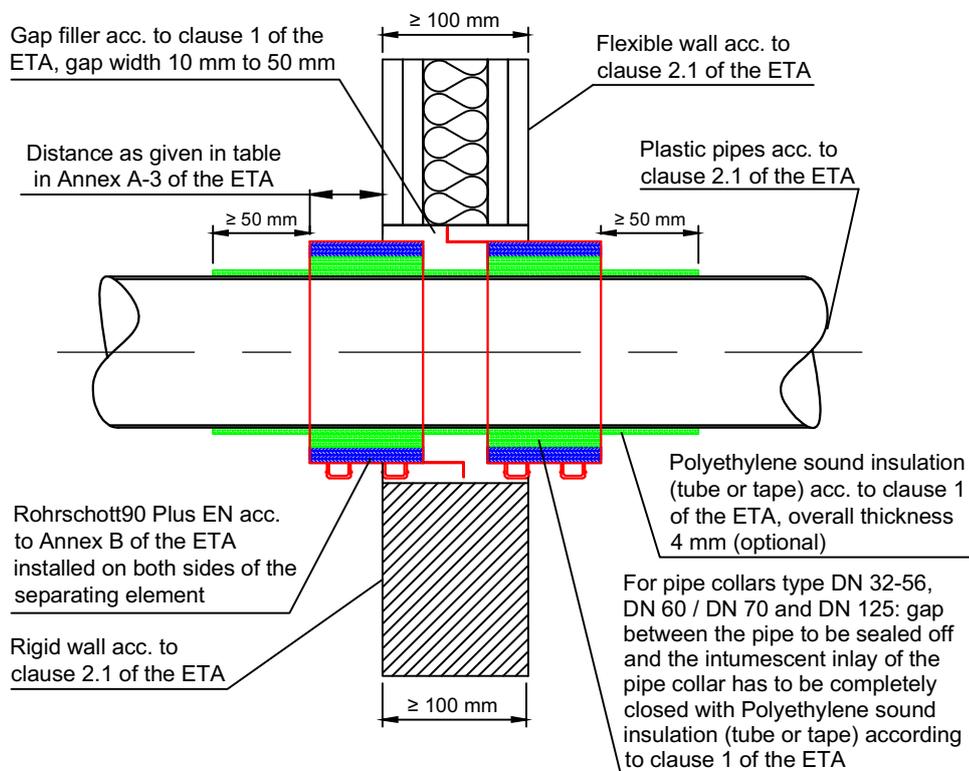
Plastic pipes acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-1

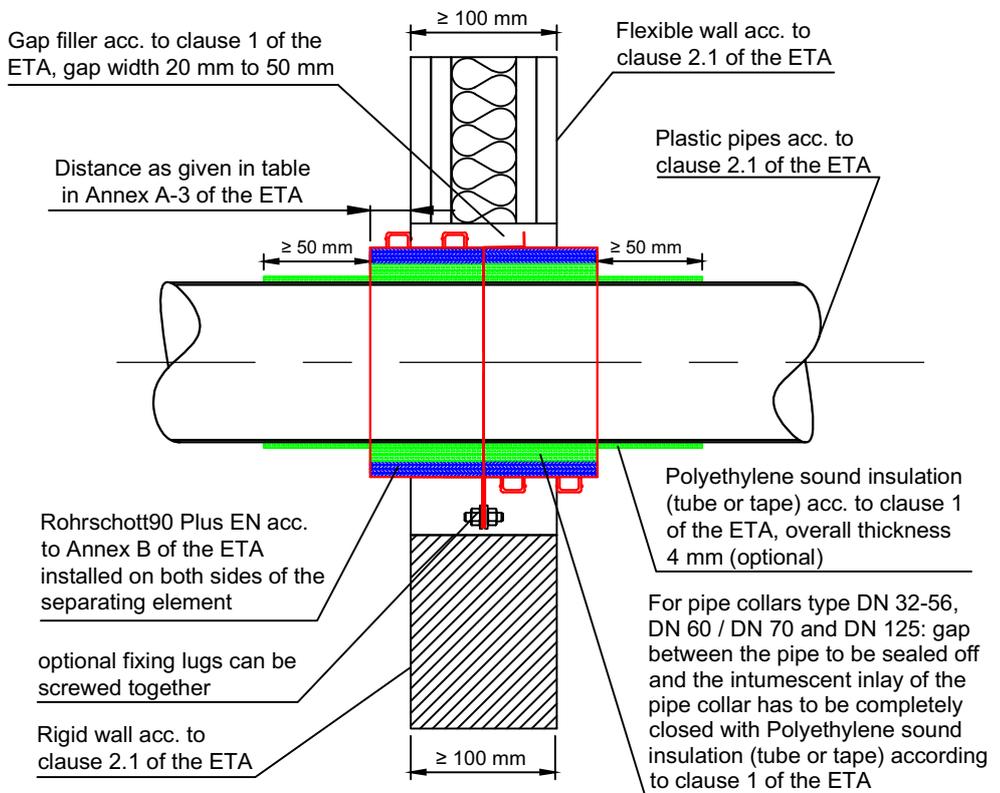
**Plastic pipes acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides partially within the separating element –
 Installation drawing – sectional view**



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-2

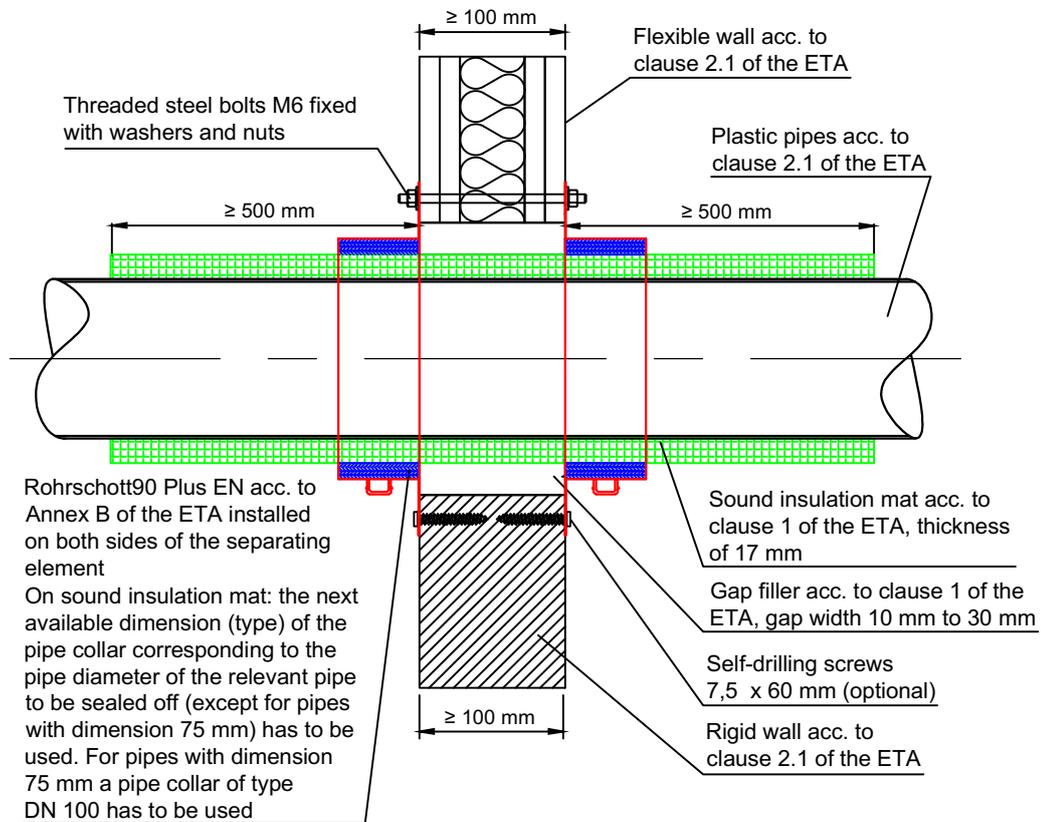
Plastic pipes acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides flushed within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-3

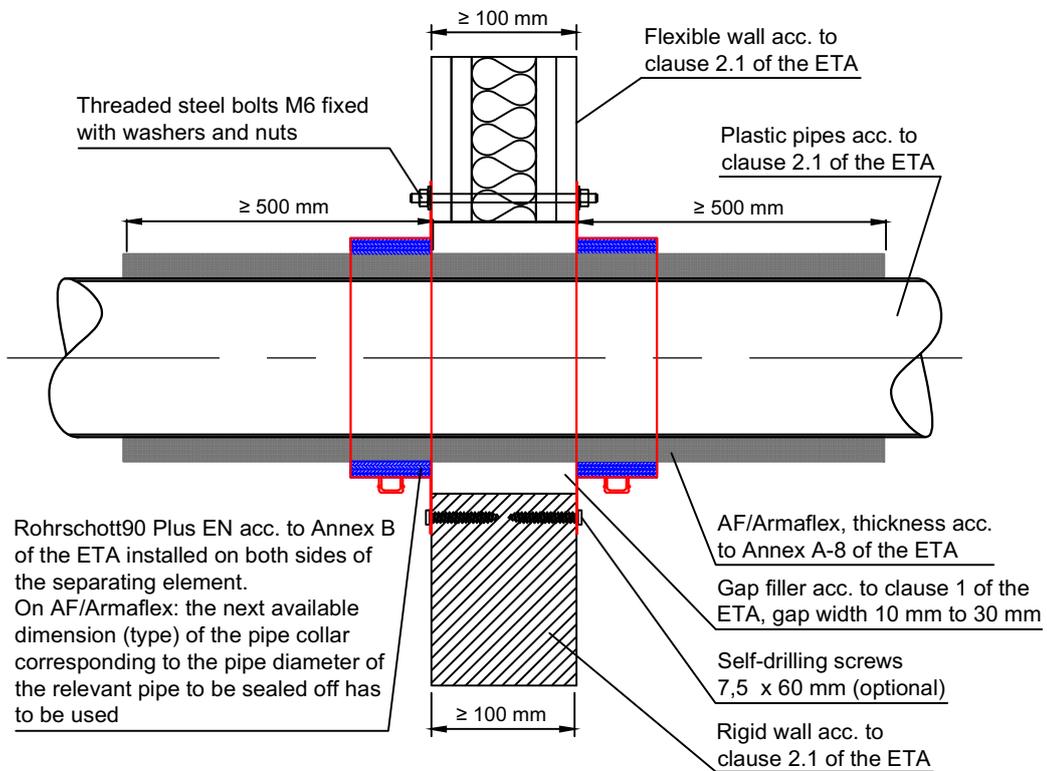
Plastic pipes acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-4

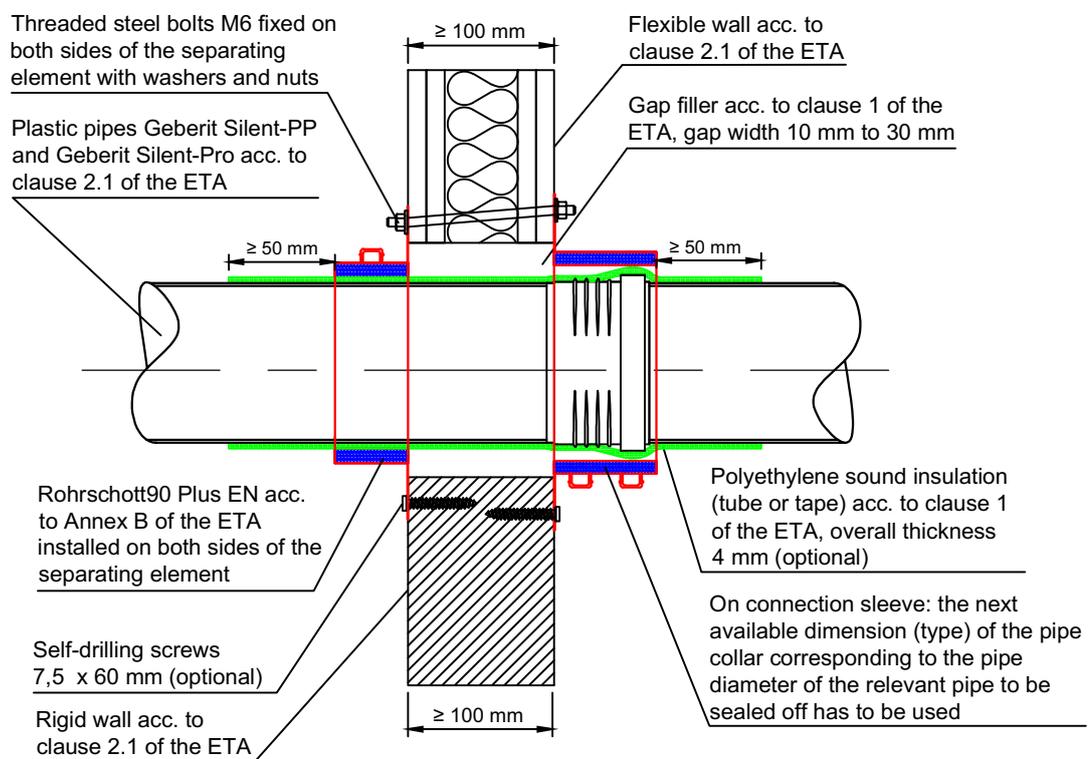
Plastic pipes acc. to cl. 2.1 of the ETA with “AF/Armaflex” – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
 - Installation in flexible wall and rigid wall -

ANNEX C-5

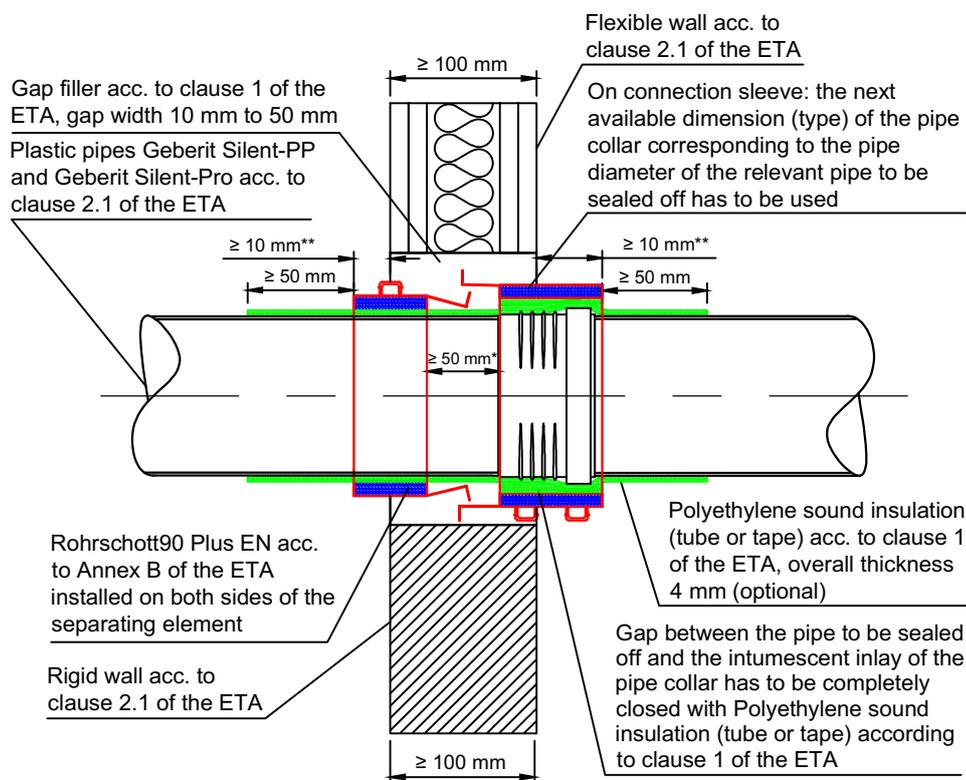
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on both sides to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-6

Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on both sides partially within the separating element – Installation drawing – sectional view

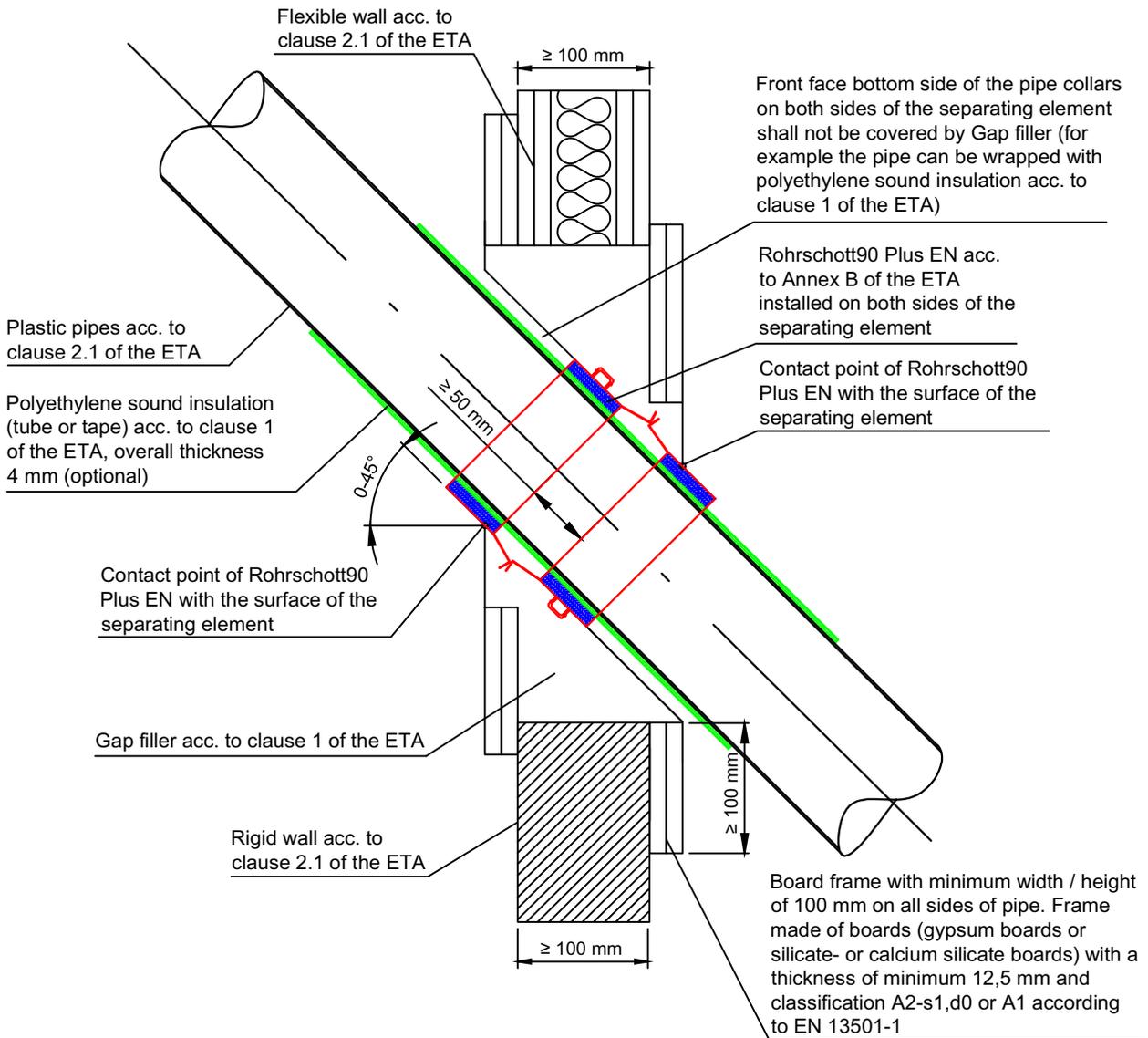


* only valid for plastic pipes Geberit Silent-Pro
 ** only valid for plastic pipes Geberit Silent-PP

Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-7

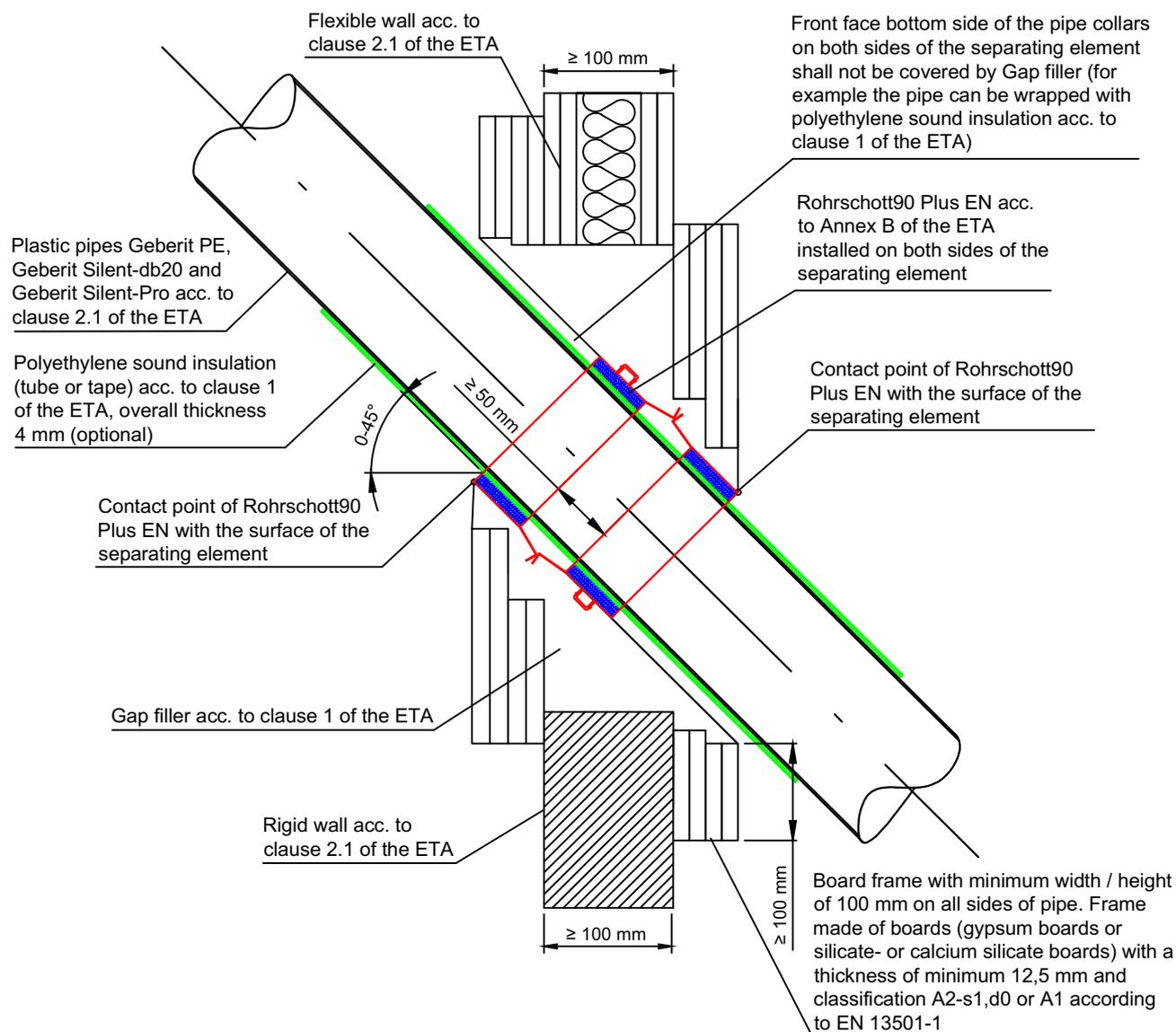
Plastic pipes acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides partially within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-8

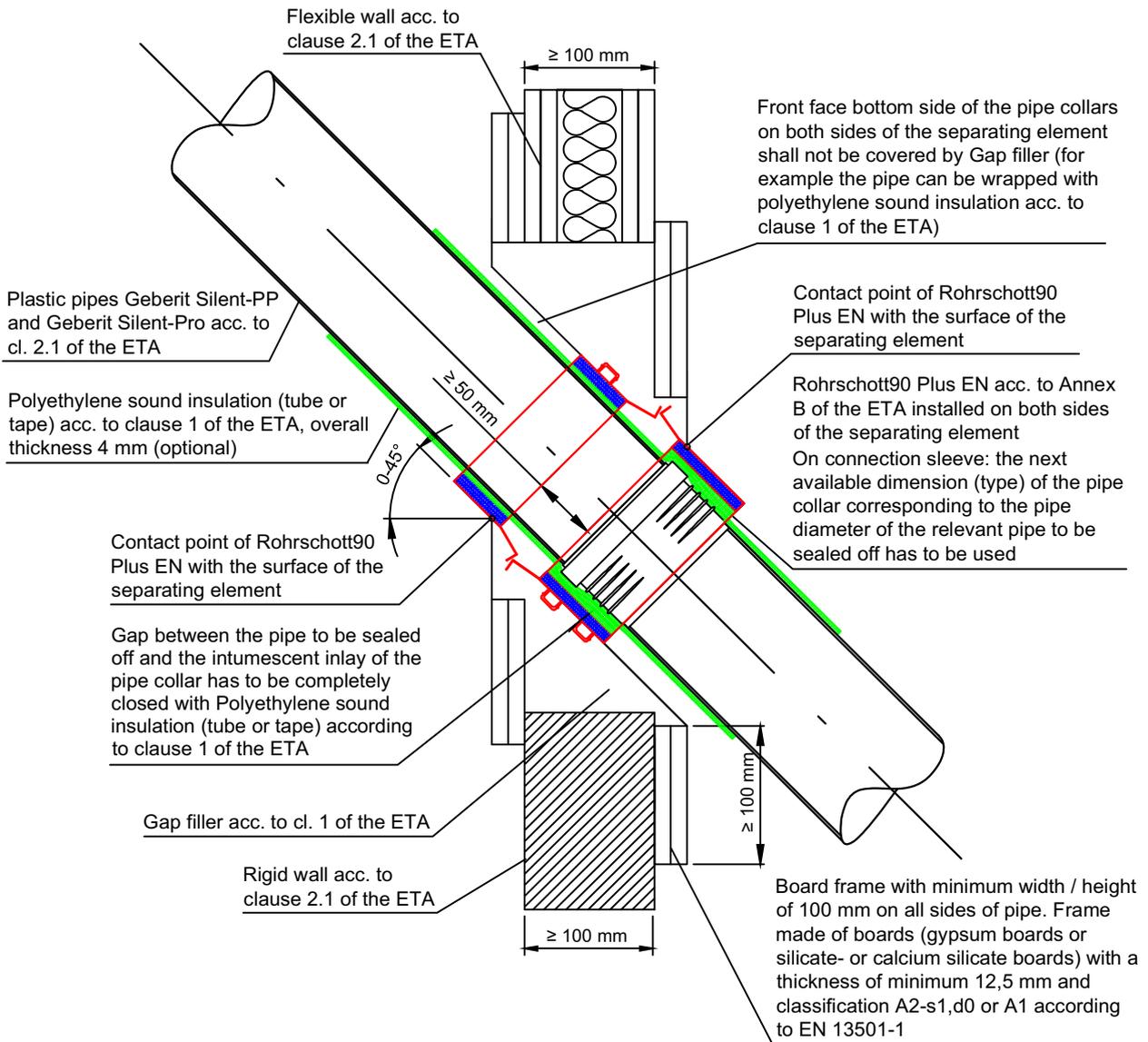
Plastic pipes Geberit PE, Geberit Silent-db20 and Geberit Silent-Pro acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides flushed within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
 - Installation in flexible wall and rigid wall -

ANNEX C-9

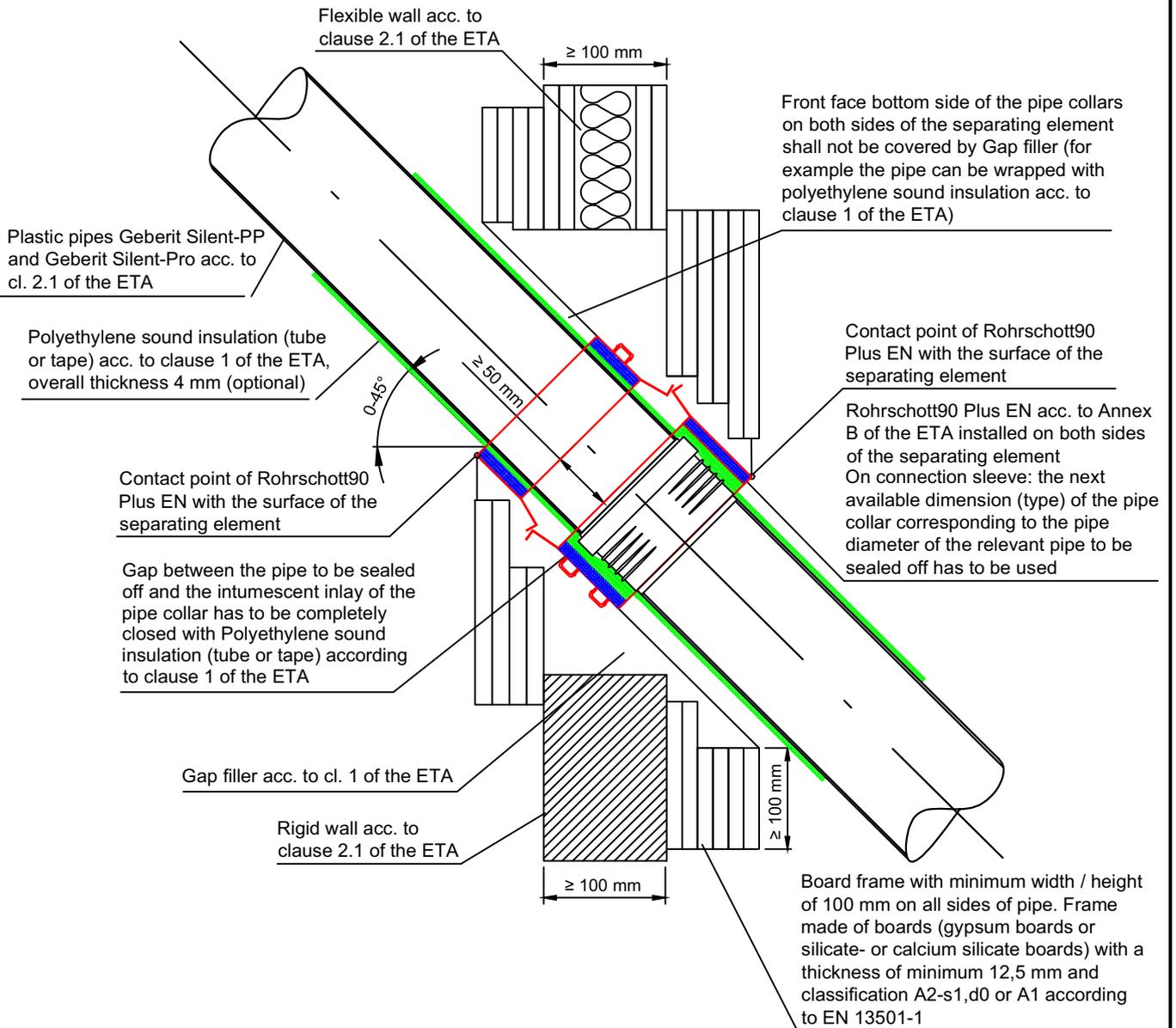
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on both sides partially within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-10

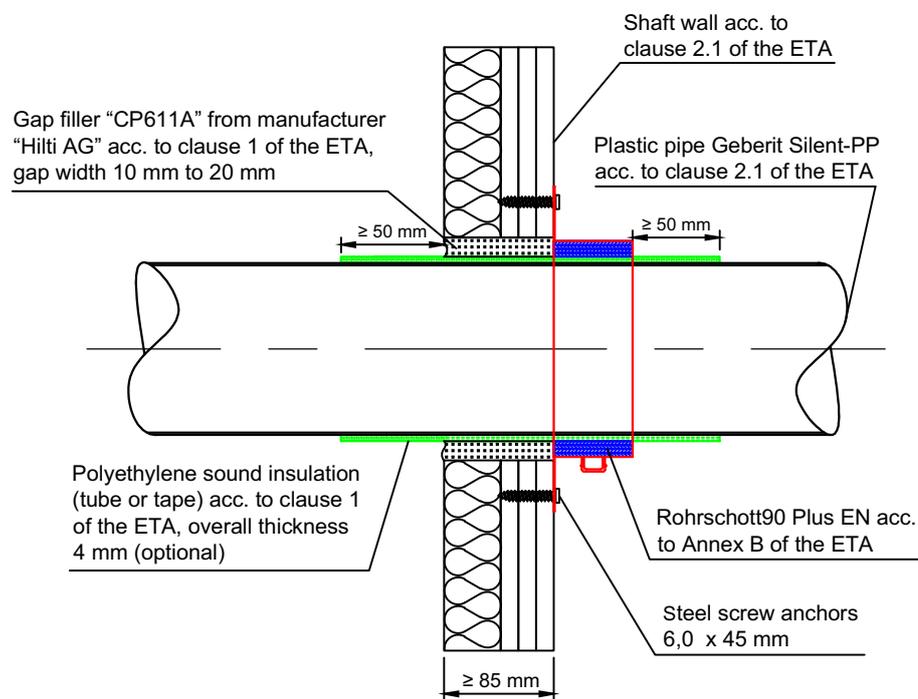
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on both sides flushed within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-11

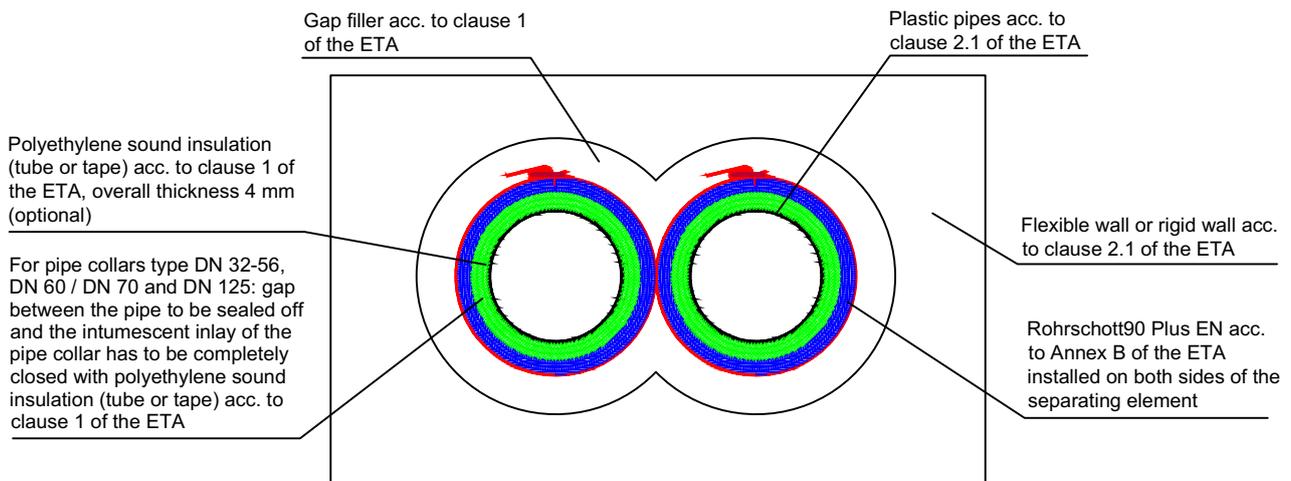
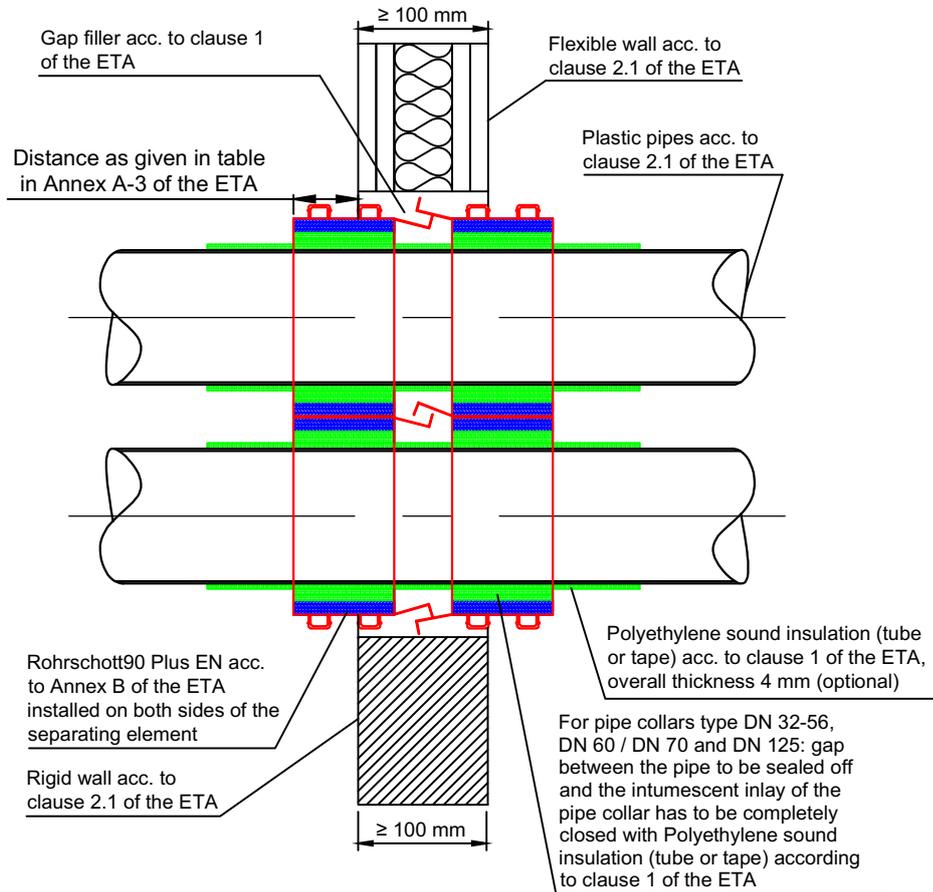
Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed outside the shaft to the surface of the shaft wall – Installation drawing – sectional view



**Rohrschott90 Plus EN
- Installation in shaft wall -**

ANNEX C-12

Plastic pipes acc. to cl. 2.1 of the ETA – in in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Minimum distance between two pipe collars (0 mm) – Installation drawing – sectional view / front view

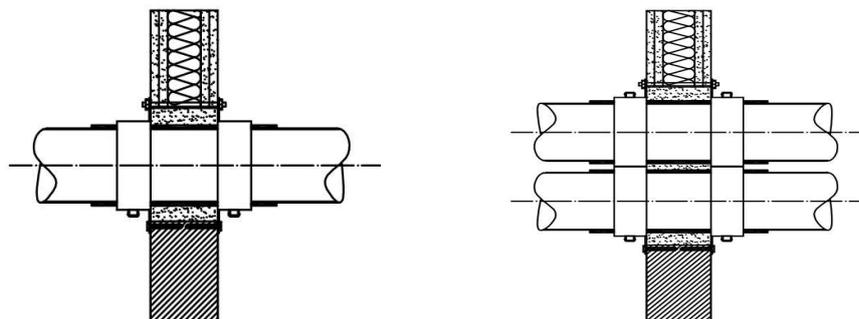


Rohrschott90 Plus EN
- Installation in flexible wall and rigid wall -

ANNEX C-13

electronic copy

PE



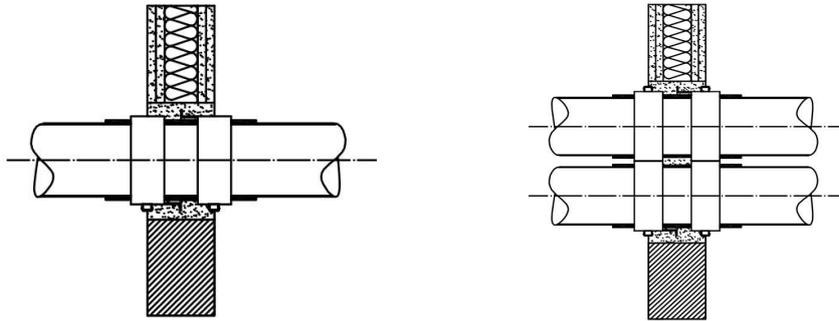
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
56	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,9	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
200	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-1

PE



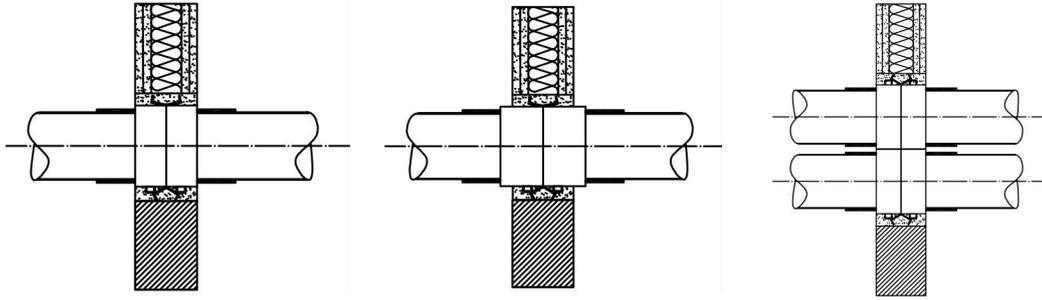
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
56	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,9	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
200	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-2

PE



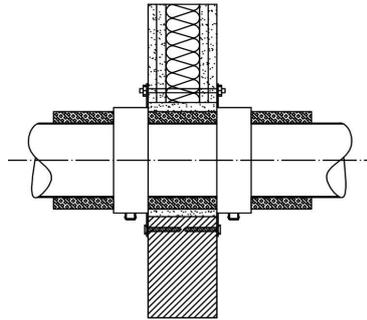
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
56	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,9	EI 90-U/U E 90-U/U	-----
160	6,2	-----	-----
200	6,2	EI 90-U/U E 90-U/U	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-3

PE



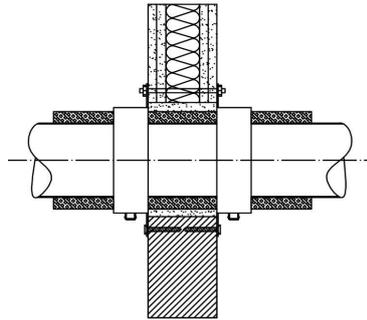
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
32	3,0	-----	-----	-----
40	3,0	-----	-----	-----
50	3,0	-----	-----	-----
56	3,0	-----	-----	-----
63	3,0	-----	-----	-----
75	3,0	17	≥ 500	EI 90-U/U E 90-U/U
90	3,5	17	≥ 500	EI 90-U/U E 90-U/U
110	4,3	17	≥ 500	EI 90-U/U E 90-U/U
125	4,9	17	≥ 500	EI 90-U/U E 90-U/U
160	6,2	17	≥ 500	EI 90-U/U E 90-U/U
200	6,2	-----	-----	-----

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX D-4

PE

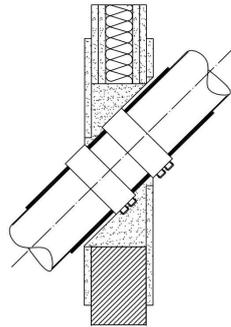


Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA with AF/Armaflex (local-sustained LS or continued-sustained CS) – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides to the surface of the separating element				
Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
32	3,0	-----	-----	-----
40	3,0	-----	-----	-----
50	3,0	13,5	≥ 500	EI 90-U/U E 90-U/U
56	3,0	14	≥ 500	EI 90-U/U E 90-U/U
63	3,0	14	≥ 500	EI 90-U/U E 90-U/U
75	3,0	14	≥ 500	EI 90-U/U E 90-U/U
90	3,5	14,5	≥ 500	EI 90-U/U E 90-U/U
110	4,3	15 to 18	≥ 500	EI 90-U/U E 90-U/U
125	4,9	15 to 23,5	≥ 500	EI 90-U/U E 90-U/U
160	6,2	16 to 25	≥ 500	EI 90-U/U E 90-U/U
200	6,2	-----	-----	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-5

PE



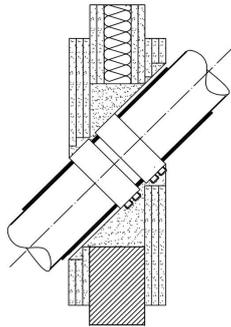
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
56	3,0	-----
63	3,0	-----
75	3,0	-----
90	3,5	-----
110	4,3	-----
125	4,9	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX D-6

PE



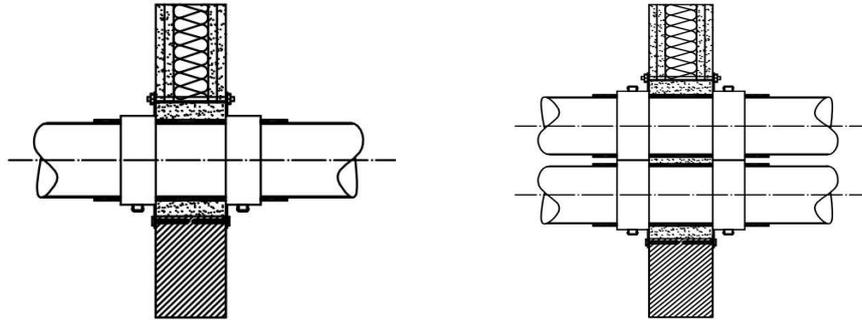
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
56	3,0	-----
63	3,0	-----
75	3,0	-----
90	3,5	-----
110	4,3	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX D-7

Silent-PP



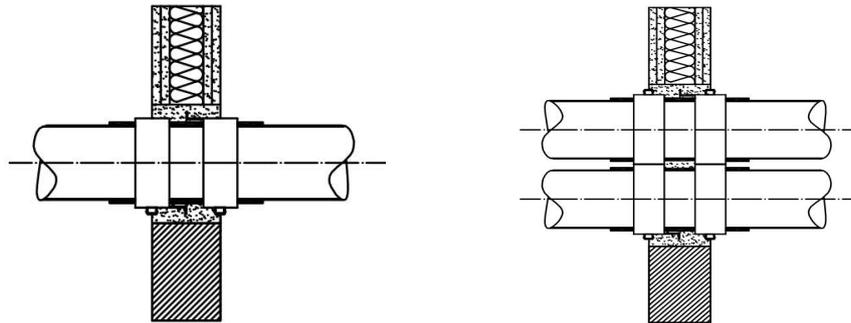
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX D-8

Silent-PP



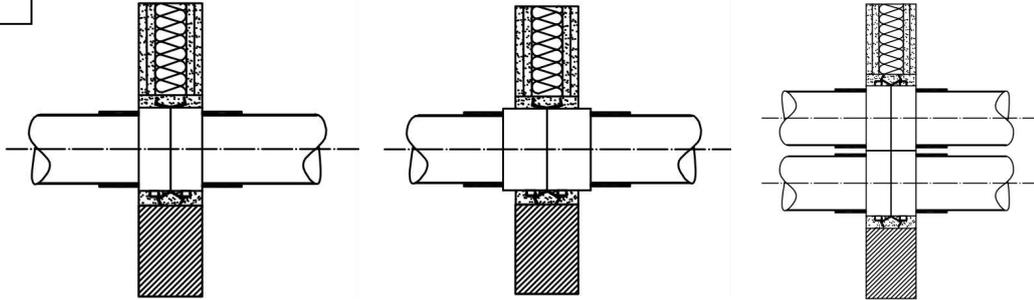
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U	-----
90	3,1	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-9

Silent-PP



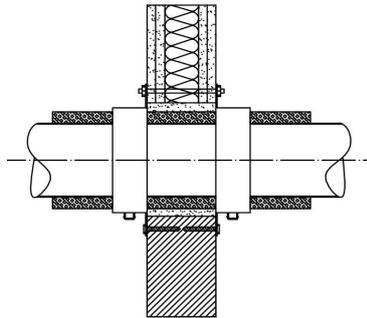
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U	-----
90	3,1	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,2	-----	-----
160	5,2	EI 90-U/U E 90-U/U	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-10

Silent-PP



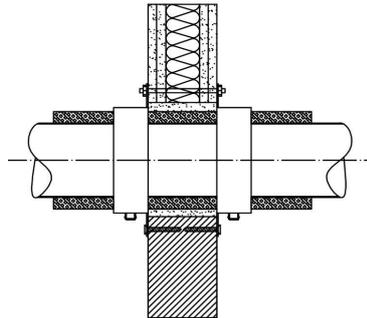
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
32	2,0	-----	-----	-----
40	2,0	17	≥ 500	EI 90-U/U E 90-U/U
50	2,0	17	≥ 500	EI 90-U/U E 90-U/U
75	2,6	17	≥ 500	EI 90-U/U E 90-U/U
90	3,1	17	≥ 500	EI 90-U/U E 90-U/U
110	3,6	17	≥ 500	EI 90-U/U E 90-U/U
125	4,2	-----	-----	-----
160	5,2	-----	-----	-----

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX D-11

Silent-PP

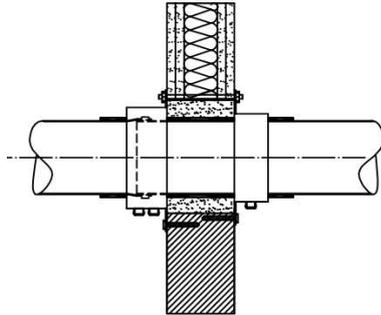


Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA with AF/Armaflex (local-sustained LS or continued-sustained CS) – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides to the surface of the separating element				
Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
32	2,0	-----	-----	-----
40	2,0	-----	-----	-----
50	2,0	13,5	≥ 500	EI 90-U/U E 90-U/U
75	2,6	14	≥ 500	EI 90-U/U E 90-U/U
90	3,1	14,5	≥ 500	EI 90-U/U E 90-U/U
110	3,6	15 to 18	≥ 500	EI 90-U/U E 90-U/U
125	4,2	15 to 23,5	≥ 500	EI 90-U/U E 90-U/U
160	5,2	16 to 25	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-12

Silent-PP



**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on both sides to the surface of the separating element**

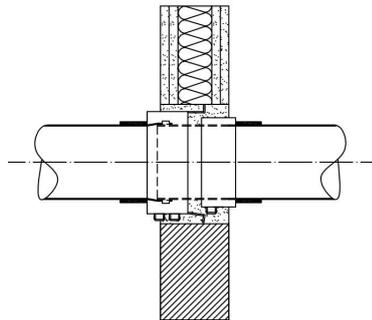
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-13

electronic copy

Silent-PP



**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on both sides partially within the separating element**

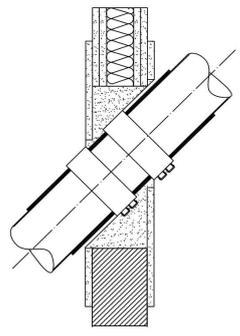
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U
125	4,2	-----
160	5,2	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-14

electronic copy

Silent-PP



**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides partially within the separating element**

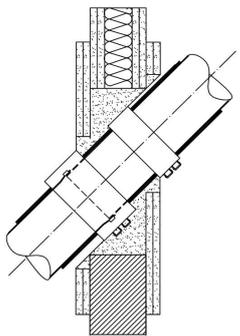
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	-----
40	2,0	-----
50	2,0	-----
75	2,6	-----
90	3,1	-----
110	3,6	-----
125	4,2	EI 90-U/U E 90-U/U
160	5,2	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-15

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Silent-PP



Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45° – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on connection sleeve on both sides partially within the separating element

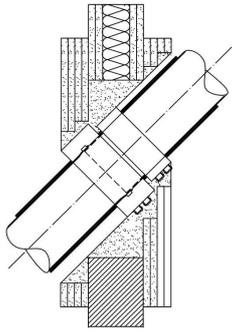
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	-----
40	2,0	-----
50	2,0	-----
75	2,6	-----
90	3,1	-----
110	3,6	-----
125	4,2	EI 90-U/U E 90-U/U
160	5,2	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-16

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Silent-PP



Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45° – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on connection sleeve on both sides flushed within the separating element

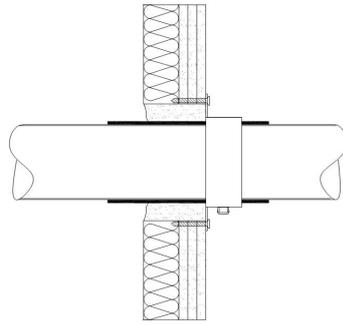
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	-----
40	2,0	-----
50	2,0	-----
75	2,6	-----
90	3,1	-----
110	3,6	EI 90-U/U E 90-U/U
125	4,2	-----
160	5,2	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-17

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Silent-PP



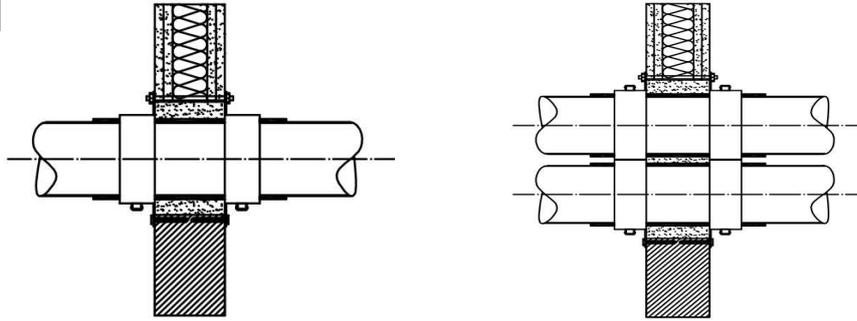
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in shaft walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed outside the shaft to the surface of the shaft wall**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	-----
40	2,0	-----
50	2,0	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U
125	4,2	-----
160	5,2	-----

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX D-18

Silent-db20



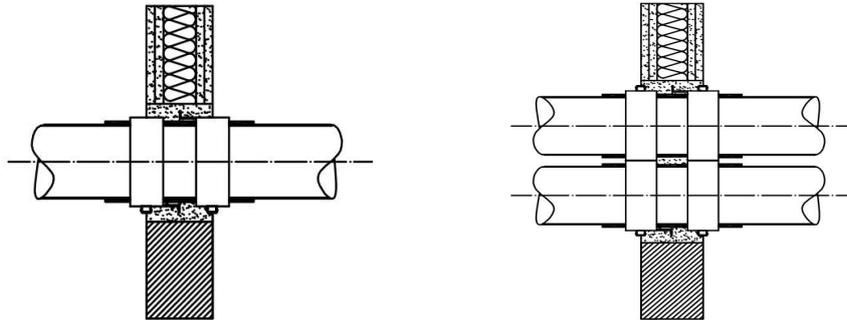
Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides to the surface of the separating element

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
56	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	5,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
135	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	7,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-19

Silent-db20



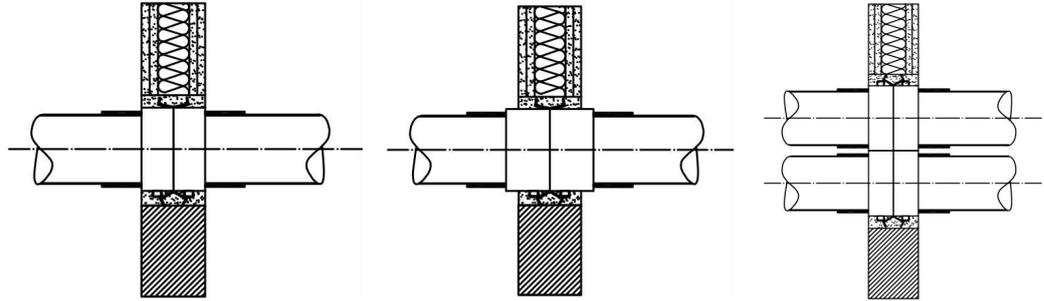
Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides partially within the separating element

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
56	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	5,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
135	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	7,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-20

Silent-db20



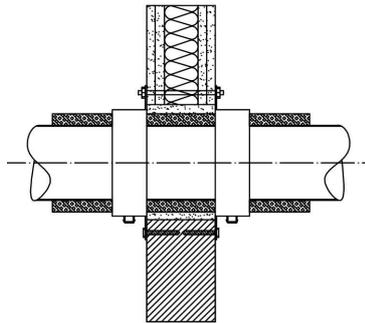
Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides flushed within the separating element

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
56	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	5,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
135	6,0	-----	-----
160	7,0	EI 90-U/U E 90-U/U	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-21

Silent-db20



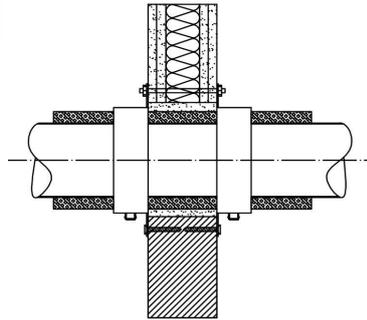
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
56	3,2	-----	-----	-----
63	3,2	-----	-----	-----
75	3,6	17	≥ 500	EI 90-U/U E 90-U/U
90	5,5	17	≥ 500	EI 90-U/U E 90-U/U
110	6,0	17	≥ 500	EI 90-U/U E 90-U/U
135	6,0	17	≥ 500	EI 90-U/U E 90-U/U
160	7,0	17	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-22

Silent-db20



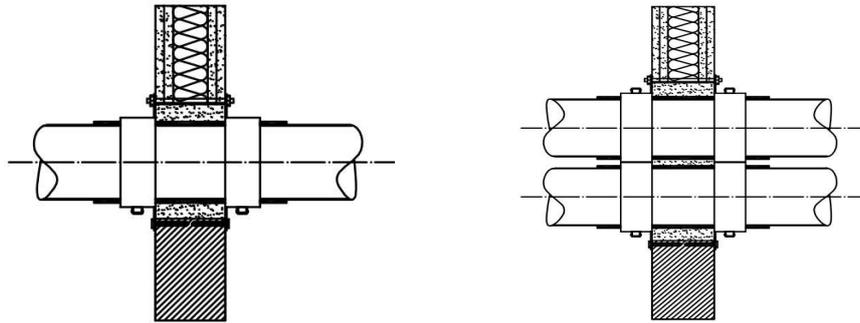
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA with AF/Armaflex
(local-sustained LS or continued-sustained CS)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
56	3,2	14	≥ 500	EI 90-U/U E 90-U/U
63	3,2	14	≥ 500	EI 90-U/U E 90-U/U
75	3,6	14	≥ 500	EI 90-U/U E 90-U/U
90	5,5	14,5	≥ 500	EI 90-U/U E 90-U/U
110	6,0	15 to 18	≥ 500	EI 90-U/U E 90-U/U
135	6,0	15,5 to 24	≥ 500	EI 90-U/U E 90-U/U
160	7,0	16 to 25	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-23

Silent-Pro



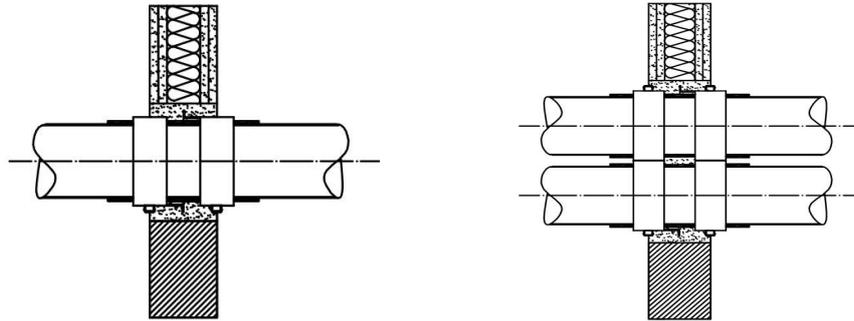
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX D-26

Silent-Pro



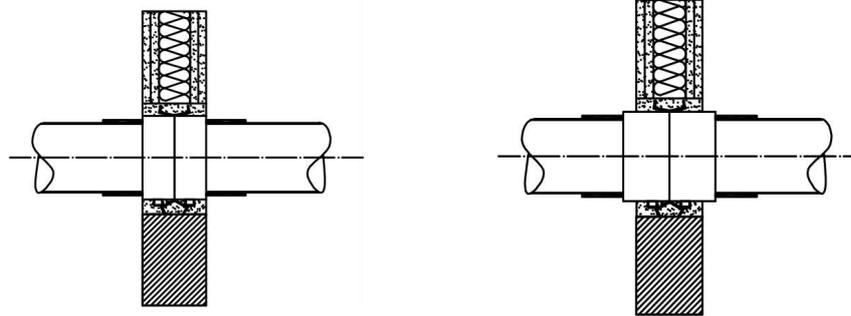
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX D-27

Silent-Pro



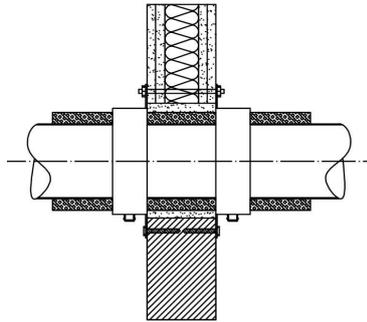
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX D-28

Silent-Pro



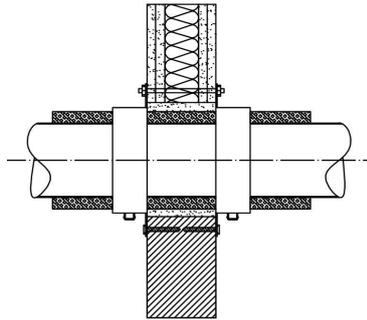
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on both sides to the surface of the separating element**

Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
50	3,0	17	≥ 500	EI 90-U/U E 90-U/U
75	3,8	17	≥ 500	EI 90-U/U E 90-U/U
90	4,3	17	≥ 500	EI 90-U/U E 90-U/U
110	4,5	17	≥ 500	EI 90-U/U E 90-U/U
125	5,0	17	≥ 500	EI 90-U/U E 90-U/U
160	6,0	17	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-29

Silent-Pro

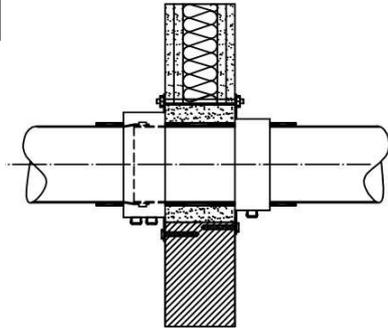


Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with AF/Armaflex (local-sustained LS or continued-sustained CS) – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on both sides to the surface of the separating element				
Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
50	3,0	13,5	≥ 500	EI 90-U/U E 90-U/U
75	3,8	14	≥ 500	EI 90-U/U E 90-U/U
90	4,3	14,5	≥ 500	EI 90-U/U E 90-U/U
110	4,5	15 to 18	≥ 500	EI 90-U/U E 90-U/U
125	5,0	15,5 to 23,5	≥ 500	EI 90-U/U E 90-U/U
160	6,0	16 to 25	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX D-30

Silent-Pro



**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on both sides to the surface of the separating element**

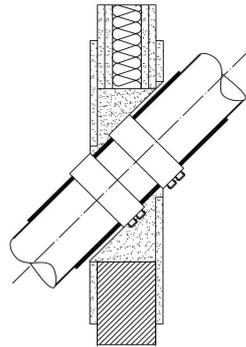
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-31

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Silent-Pro



**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides partially within the separating element**

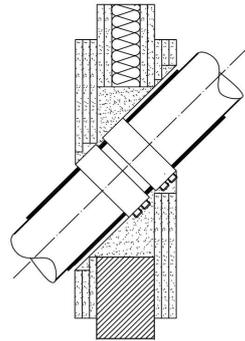
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-33

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Silent-Pro



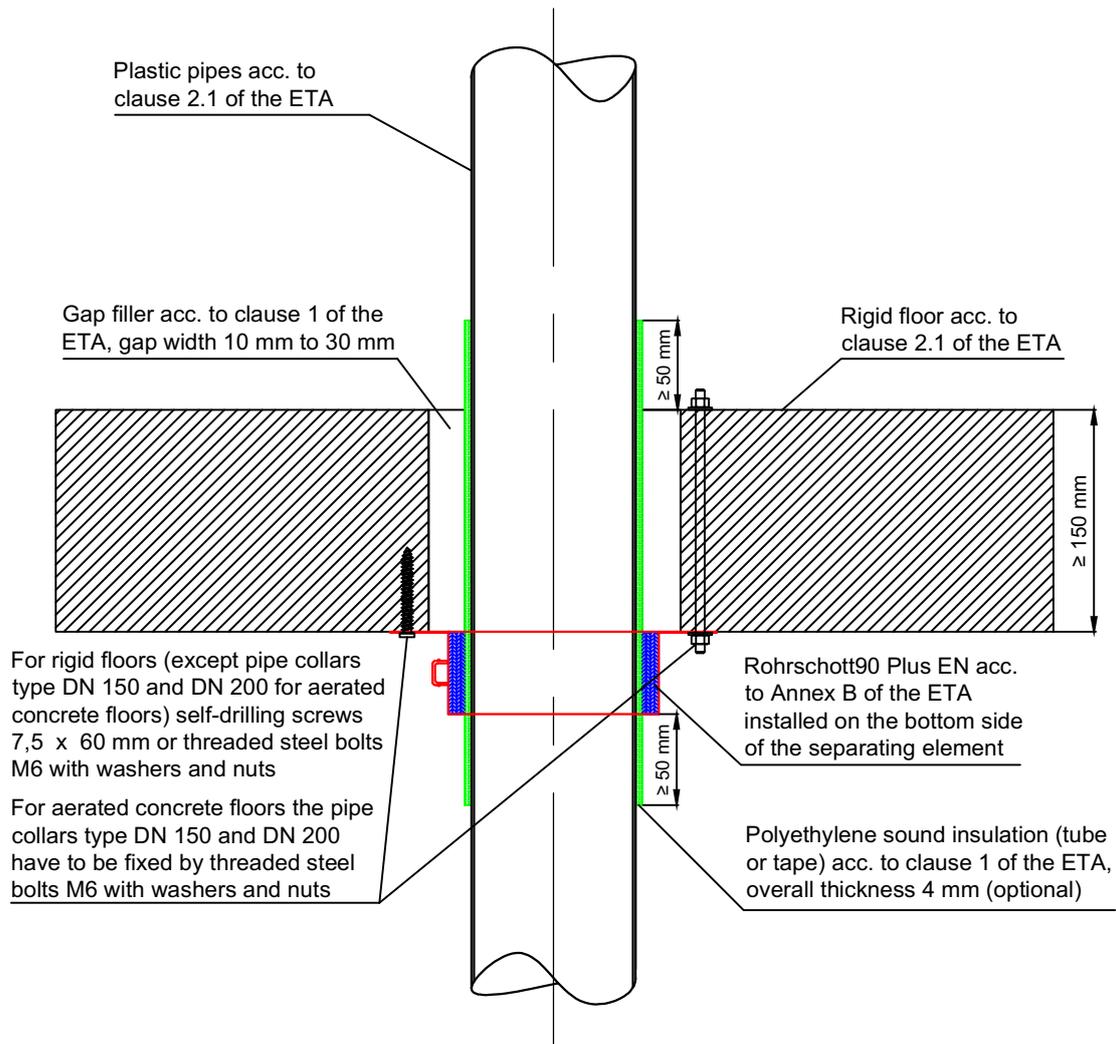
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on both sides flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX D-34

Plastic pipes acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element – Installation drawing – sectional view

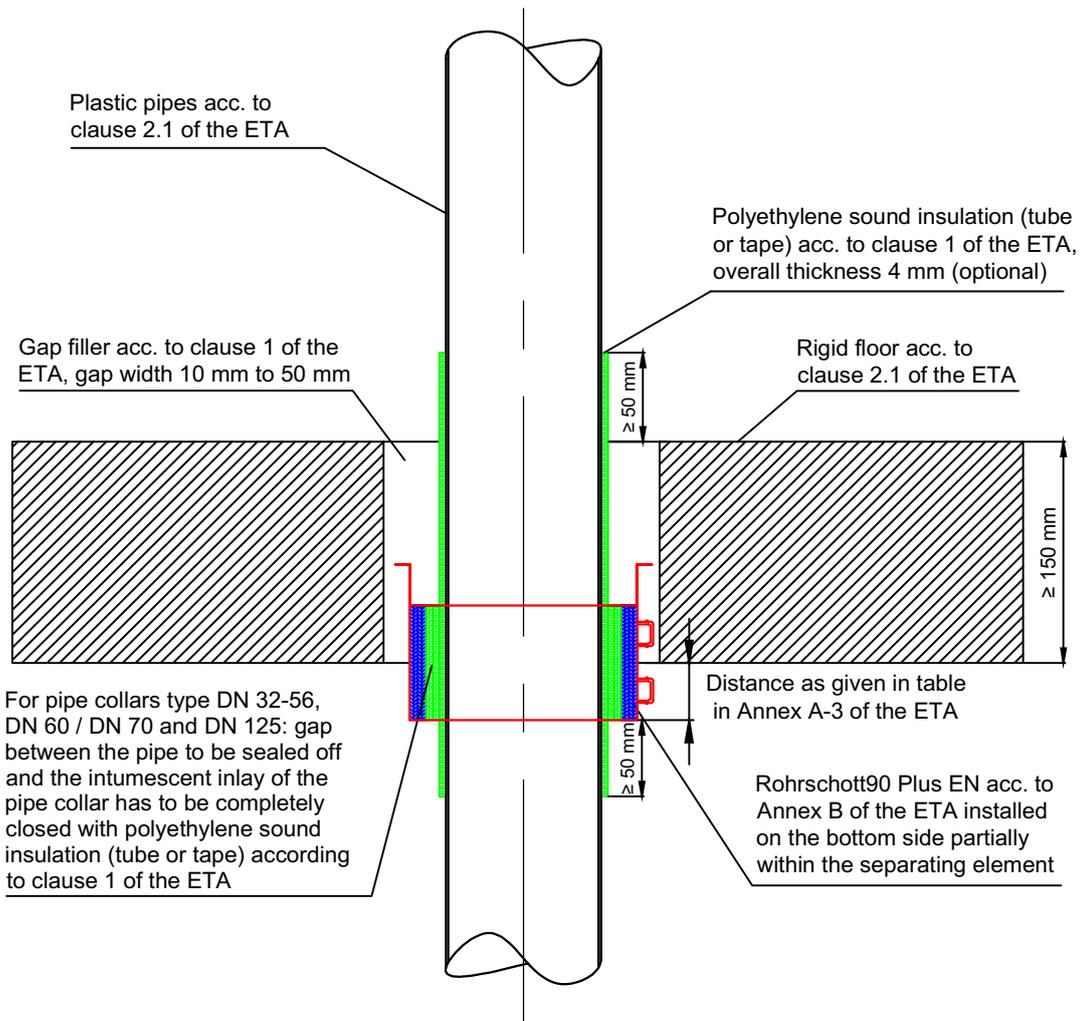


Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-1

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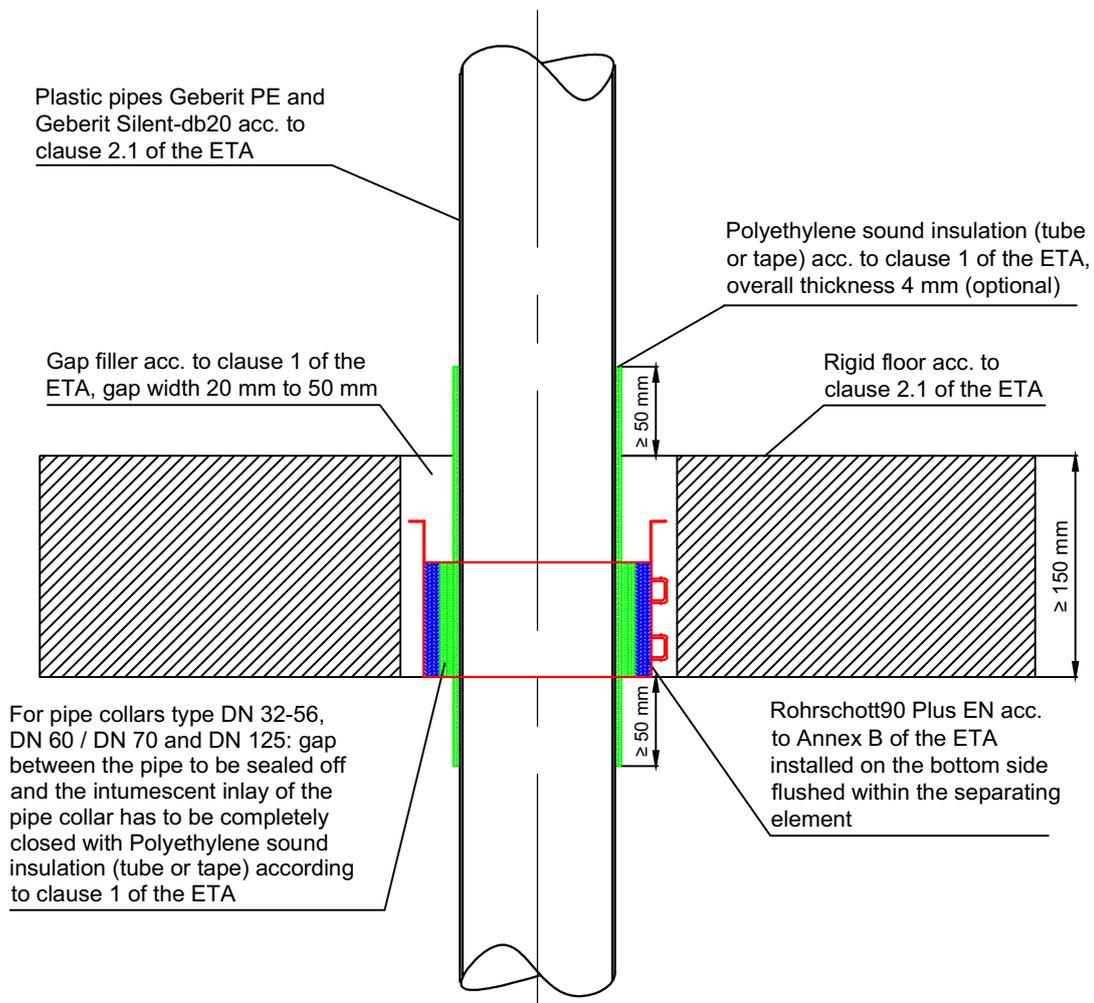
Plastic pipes acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side partially within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-2

Plastic pipes Geberit PE and Geberit Silent-db20 acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side flushed within the separating element – Installation drawing – sectional view

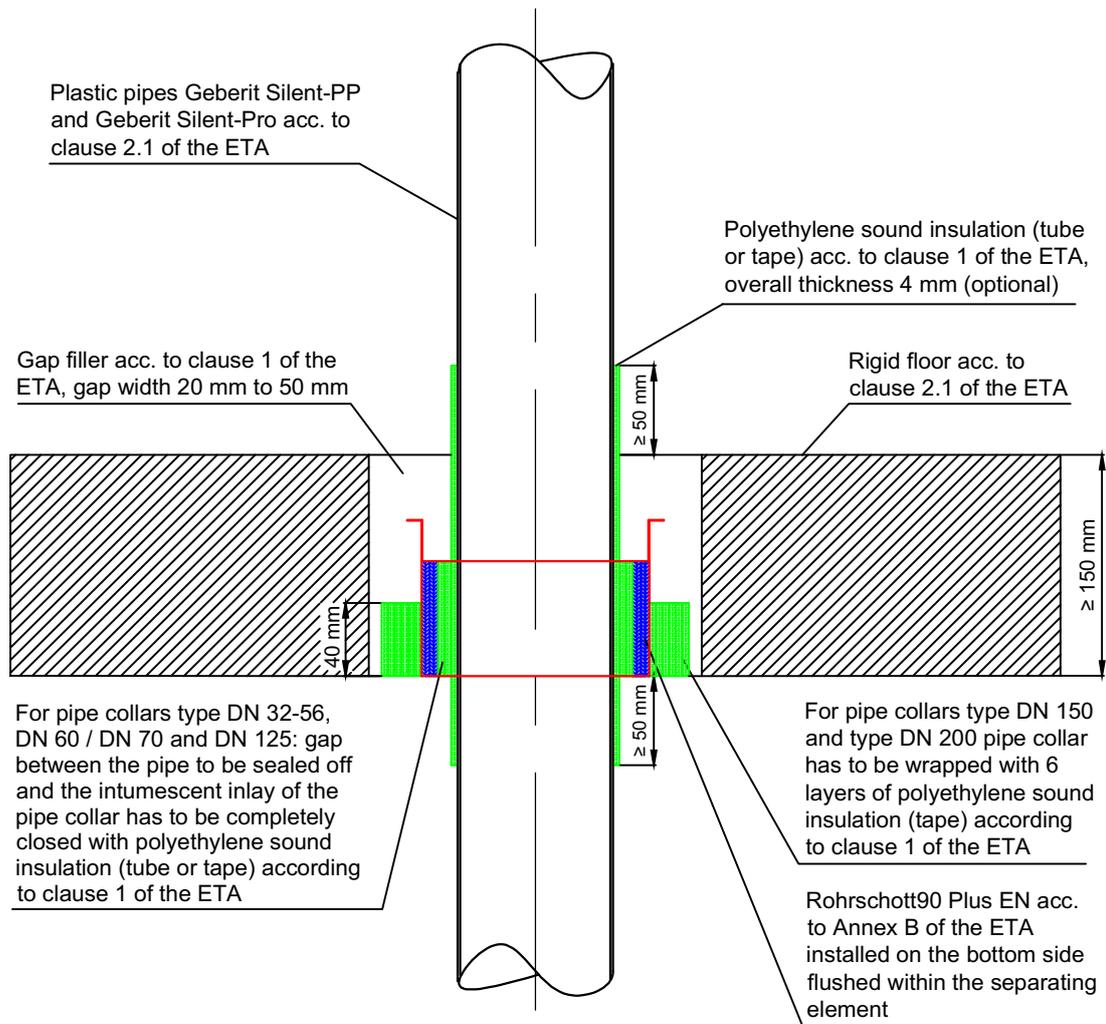


Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-3

electronic copy

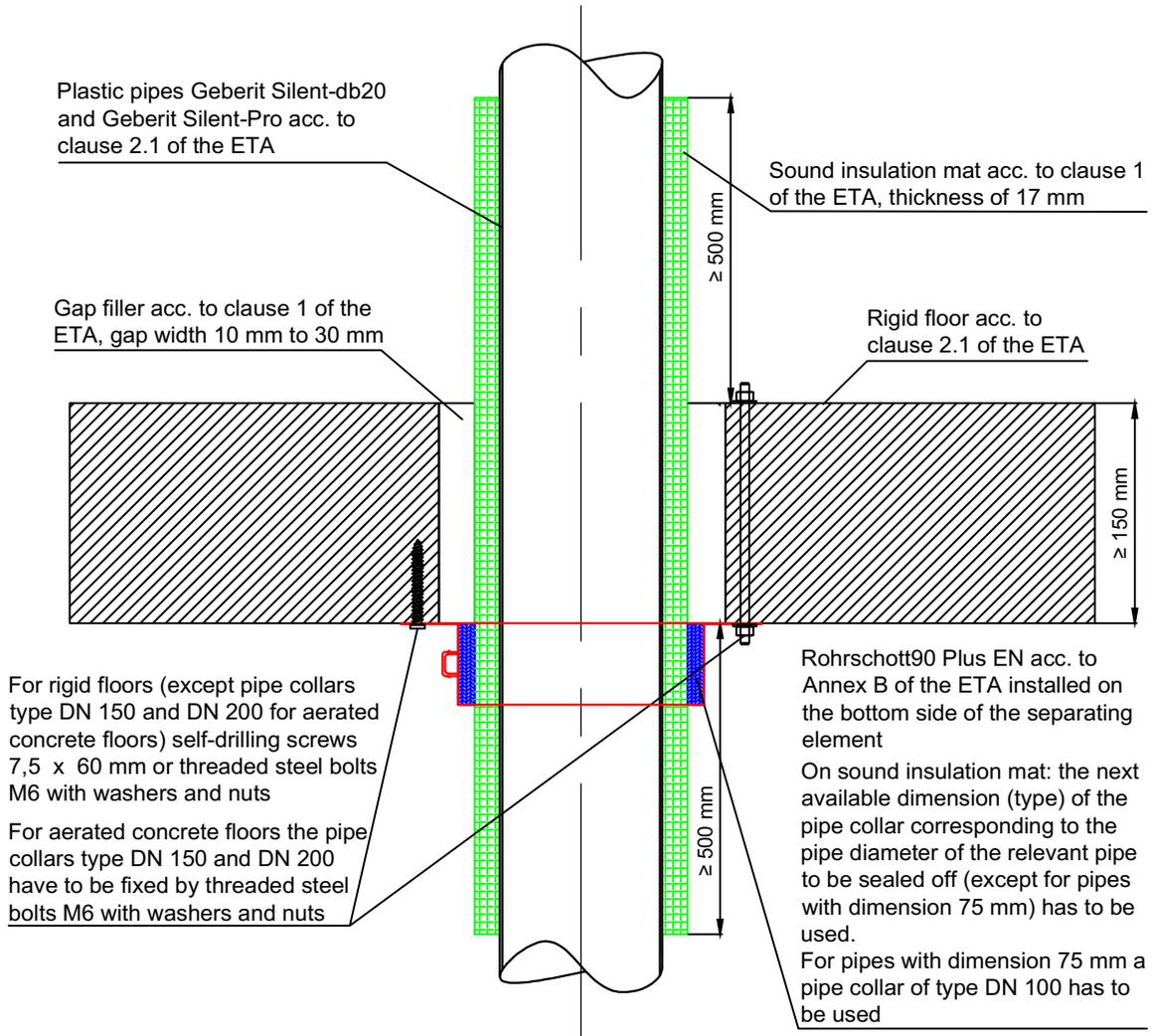
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side flushed within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-4

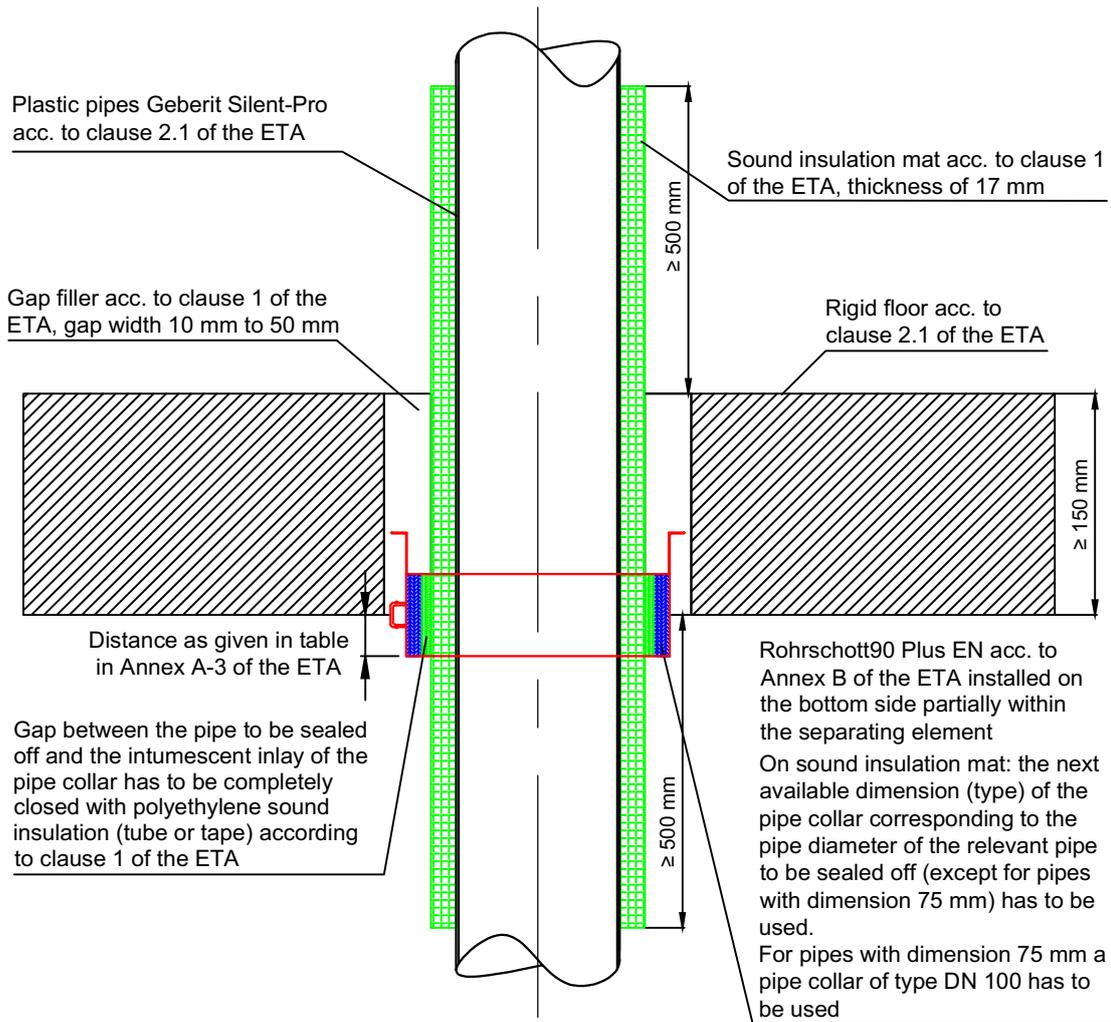
Plastic pipes Geberit Silent-db20 and Geberit Silent-Pro acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-5

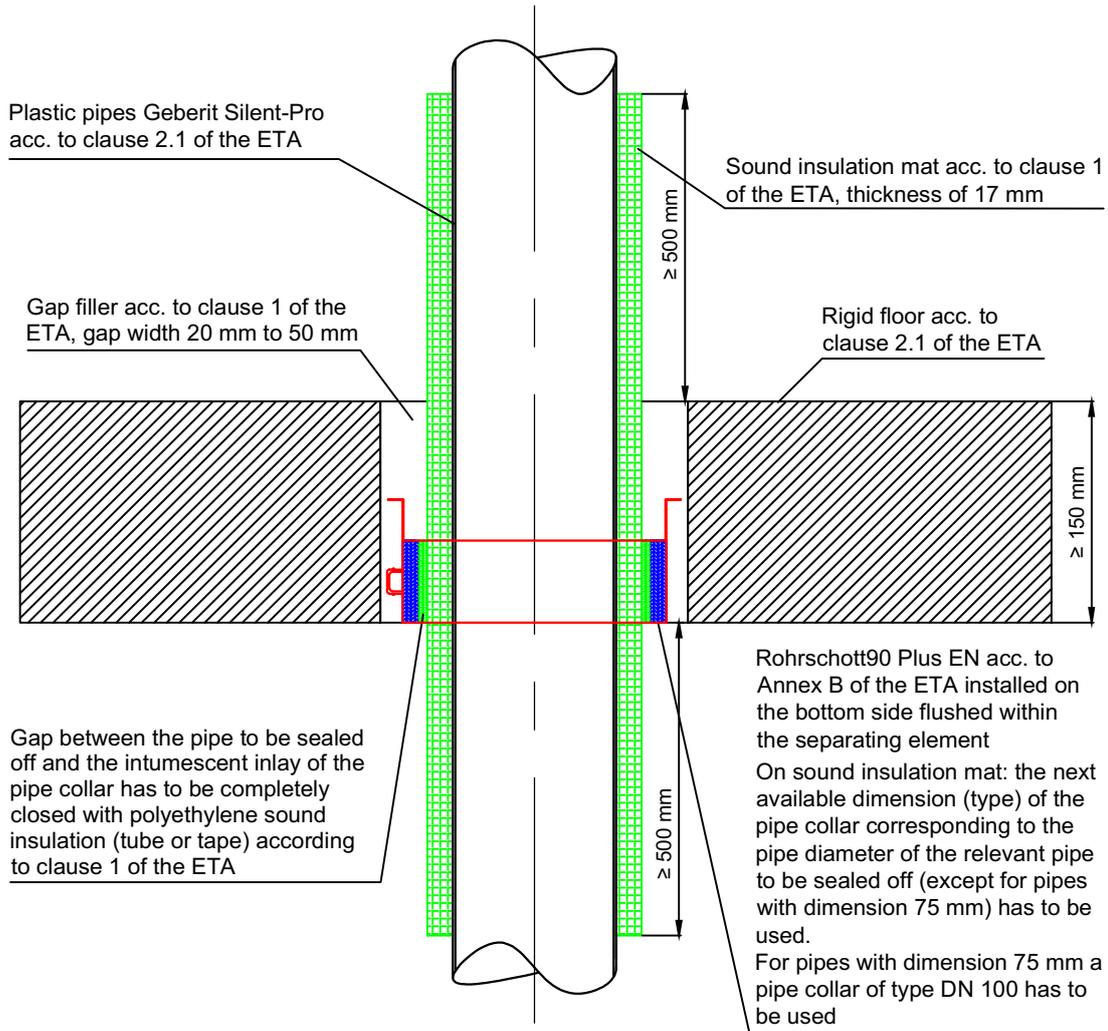
Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side partially within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-6

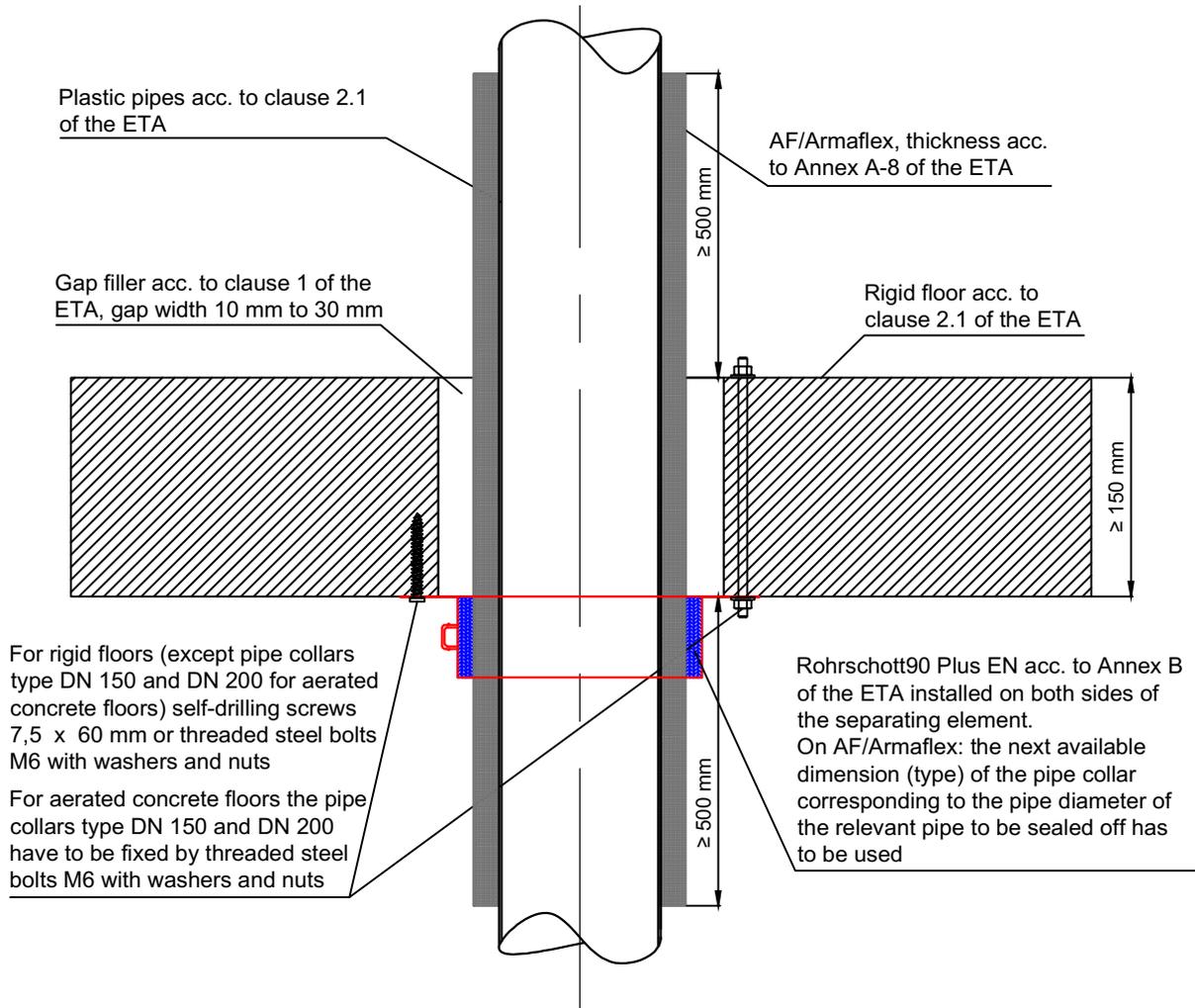
Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side flushed within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-7

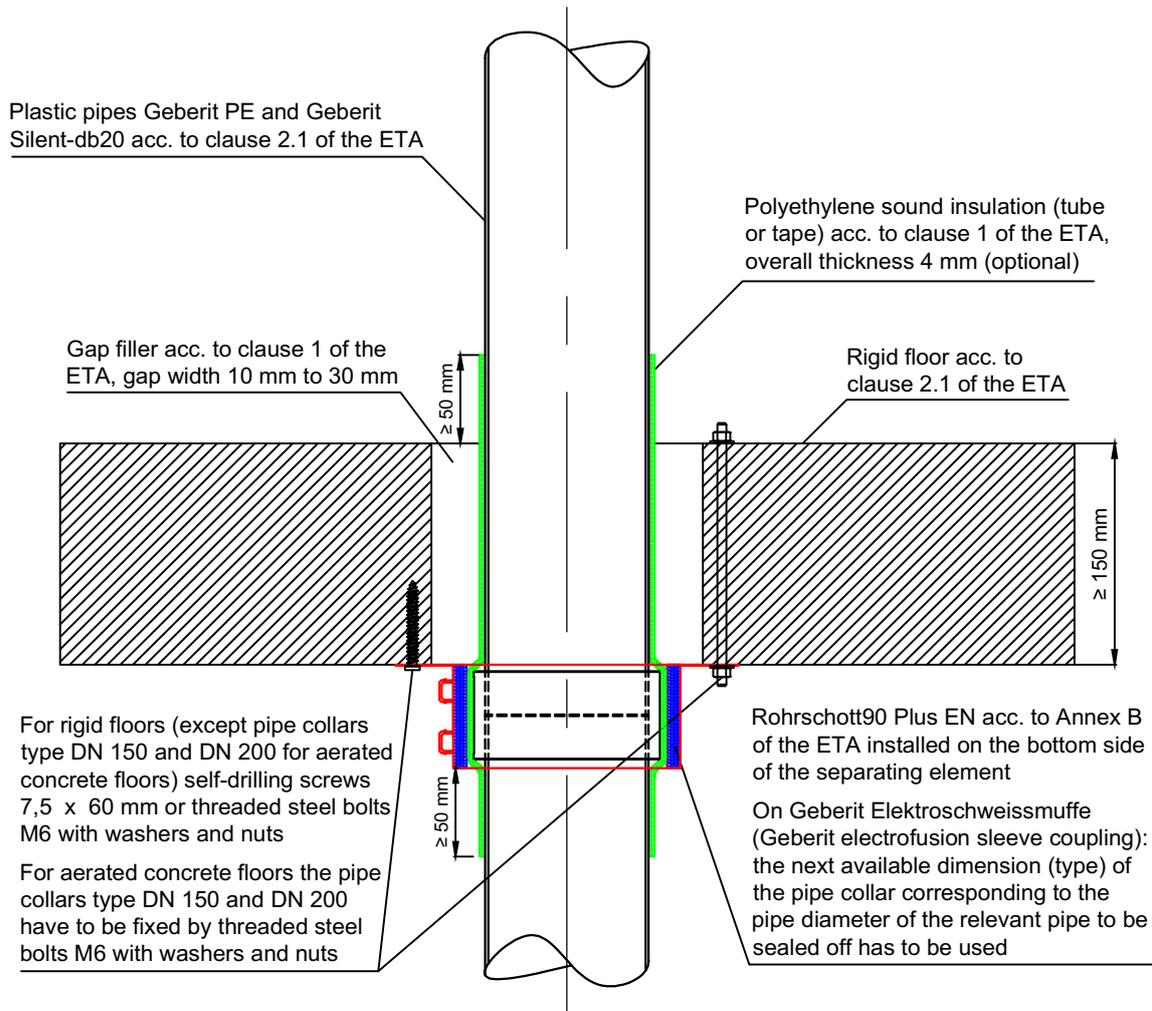
Plastic pipes acc. to cl. 2.1 of the ETA with “AF/Armaflex” – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-8

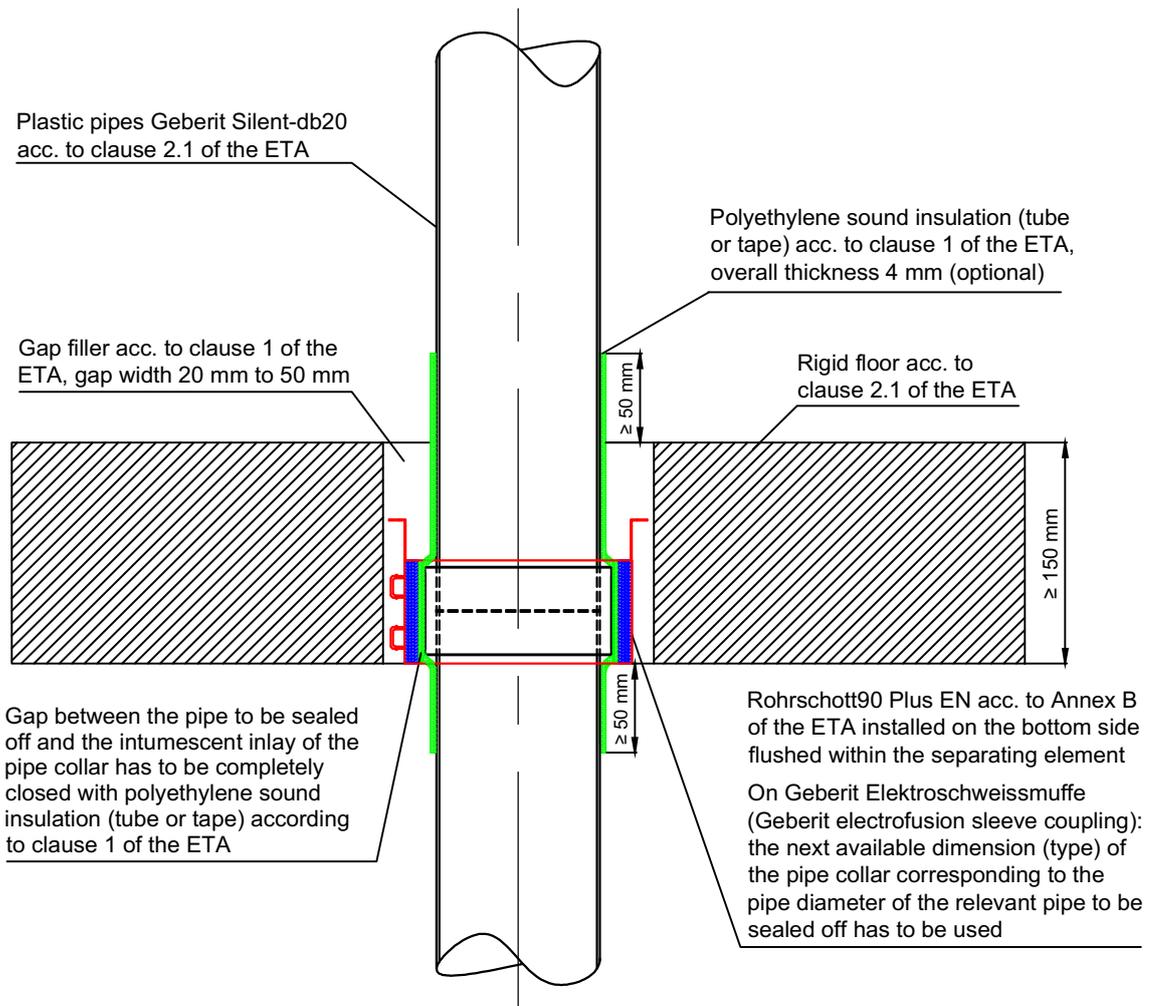
Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on Geberit Elektroschweißmuffe (Geberit electrofusion sleeve coupling) on the bottom side to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-9

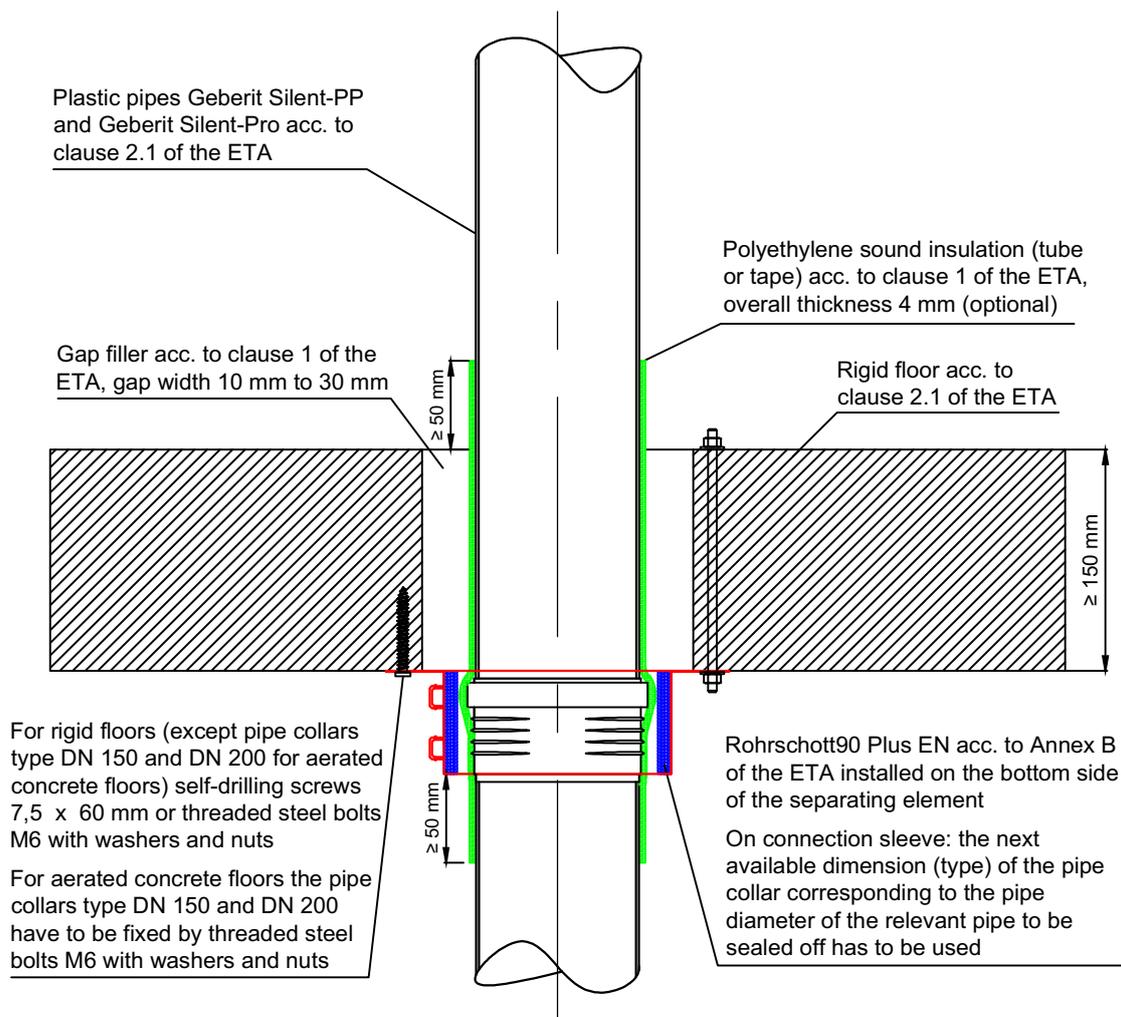
Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on Geberit Elektroschweißmuffe (Geberit electrofusion sleeve coupling) on the bottom side flushed within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
 - Installation in rigid floor-

ANNEX E-10

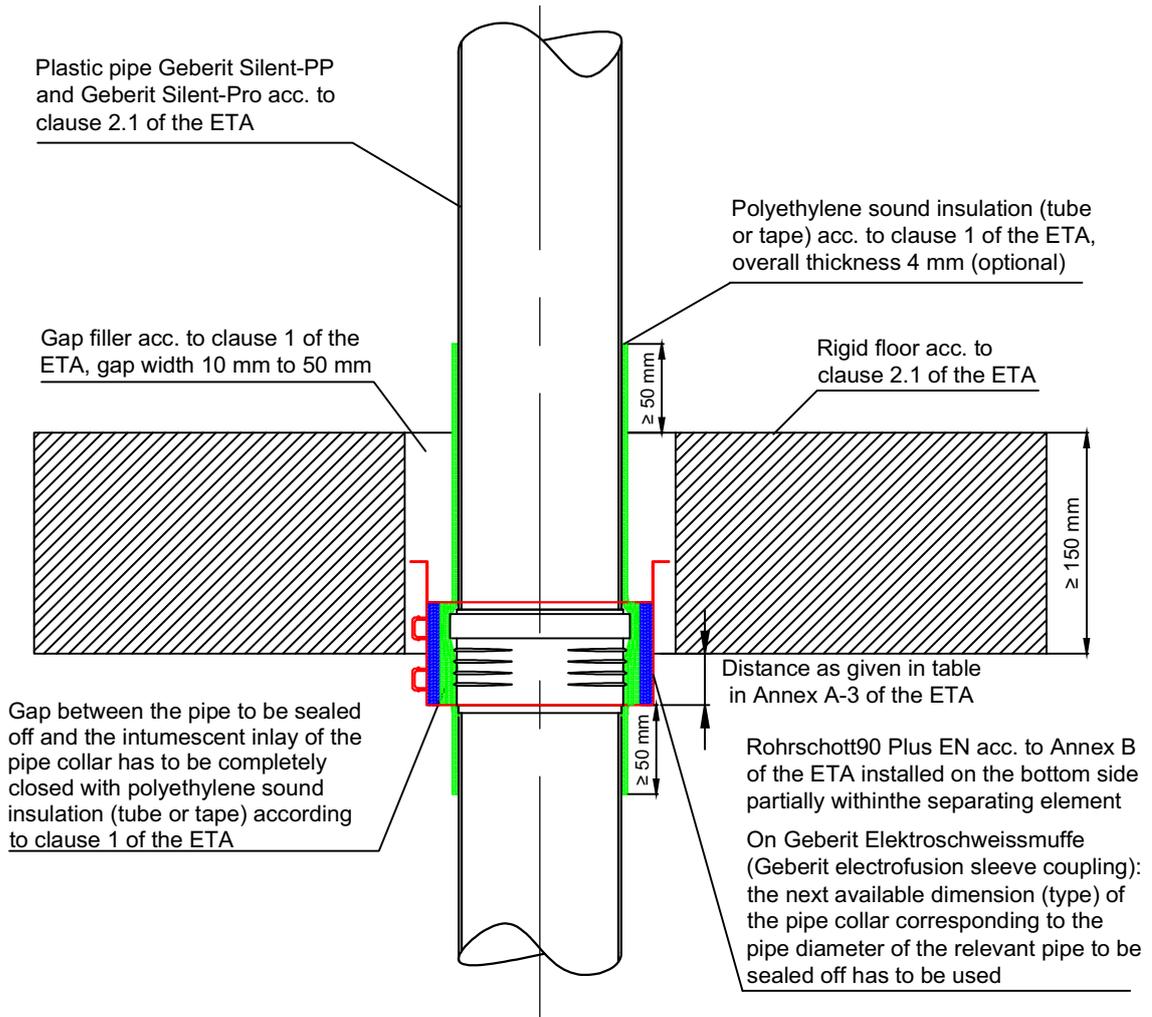
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on the bottom side to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-11

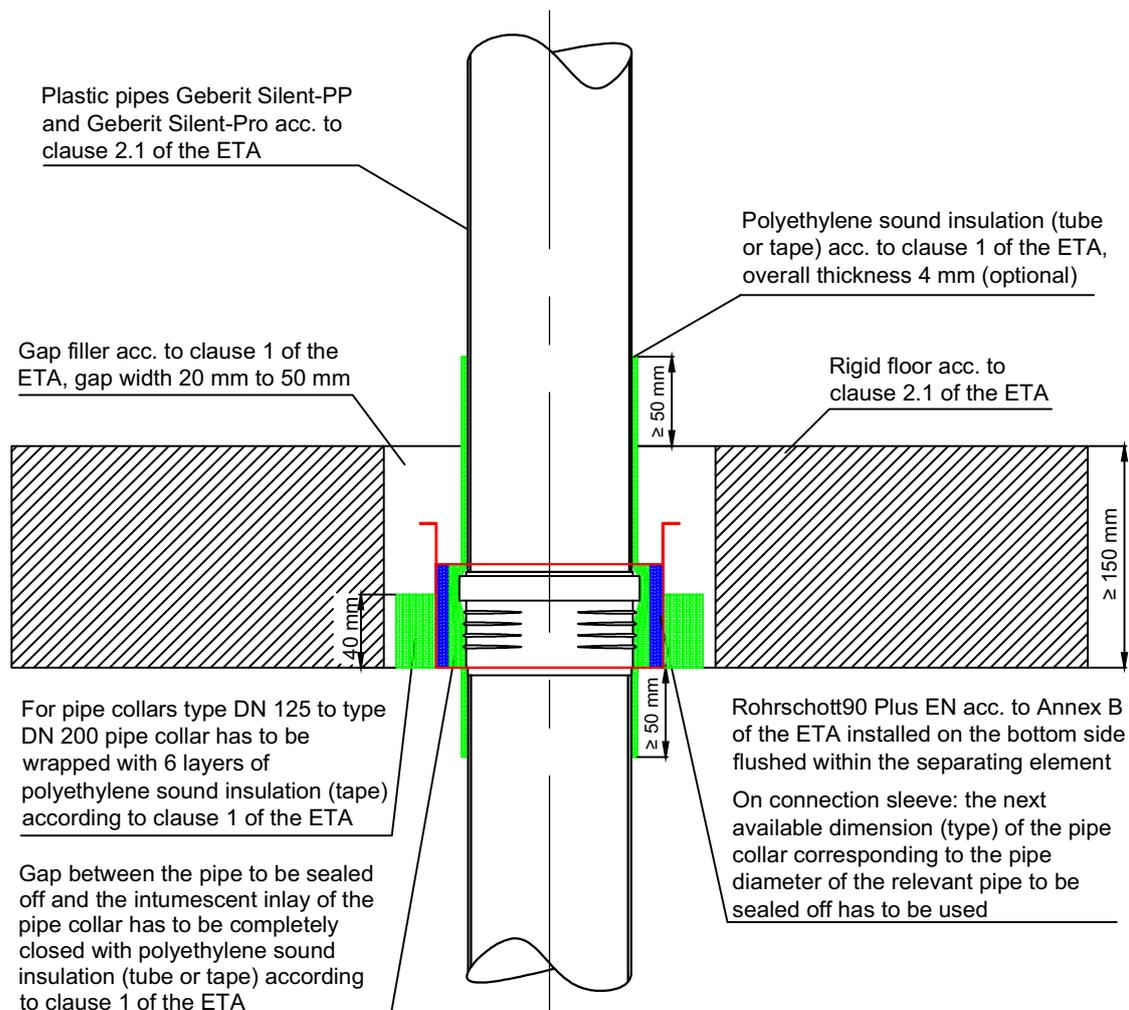
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on the bottom side partially within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-12

Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on the bottom side flushed within the separating element – Installation drawing – sectional view

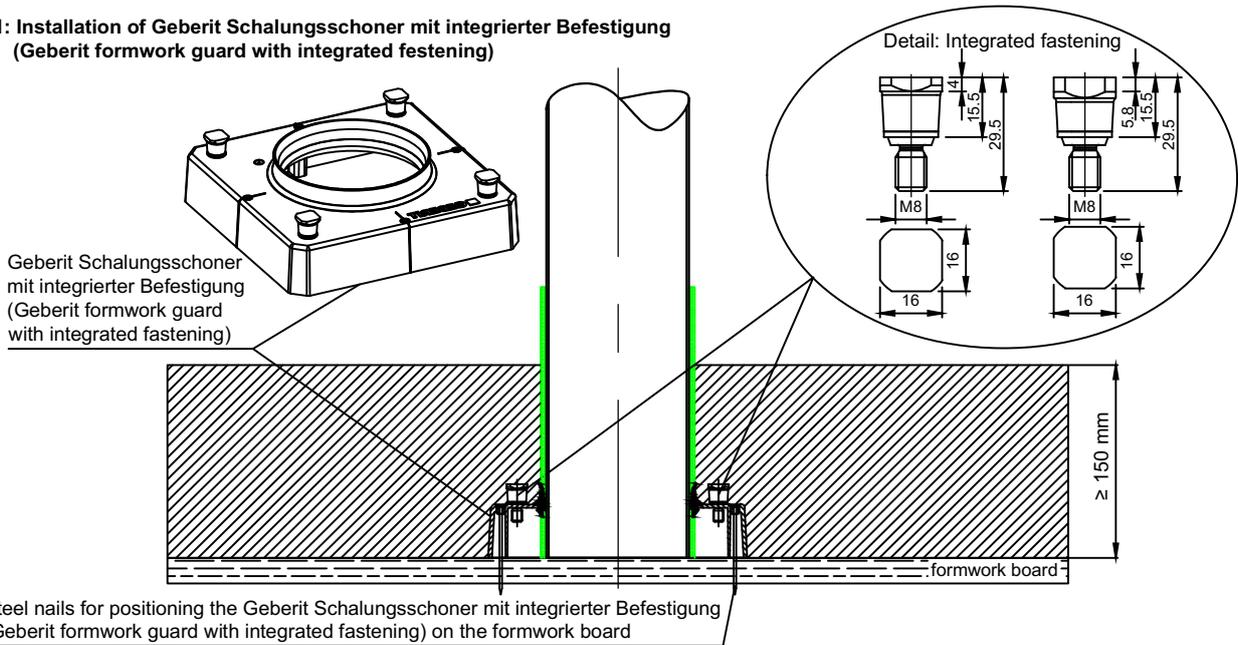


Rohrschott90 Plus EN
- Installation in rigid floor-

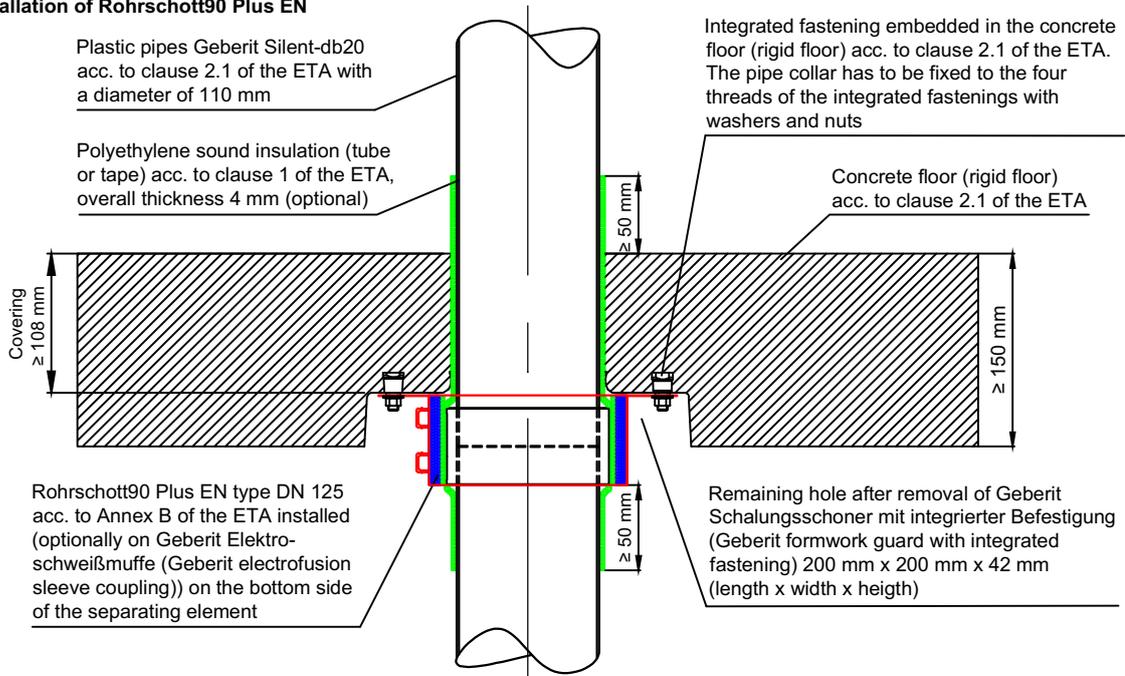
ANNEX E-13

Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA – in concrete floors (rigid floors) acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed (optionally on Geberit Elektroschweißmuffe (Geberit electrofusion sleeve coupling)) on the bottom side to the surface of the separating element and fixed to the integrated fastenings of Geberit Schalungsschoner mit integrierter Befestigung (Geberit formwork guard with integrated fastening) – Installation drawing – sectional view

Step 1: Installation of Geberit Schalungsschoner mit integrierter Befestigung (Geberit formwork guard with integrated fastening)



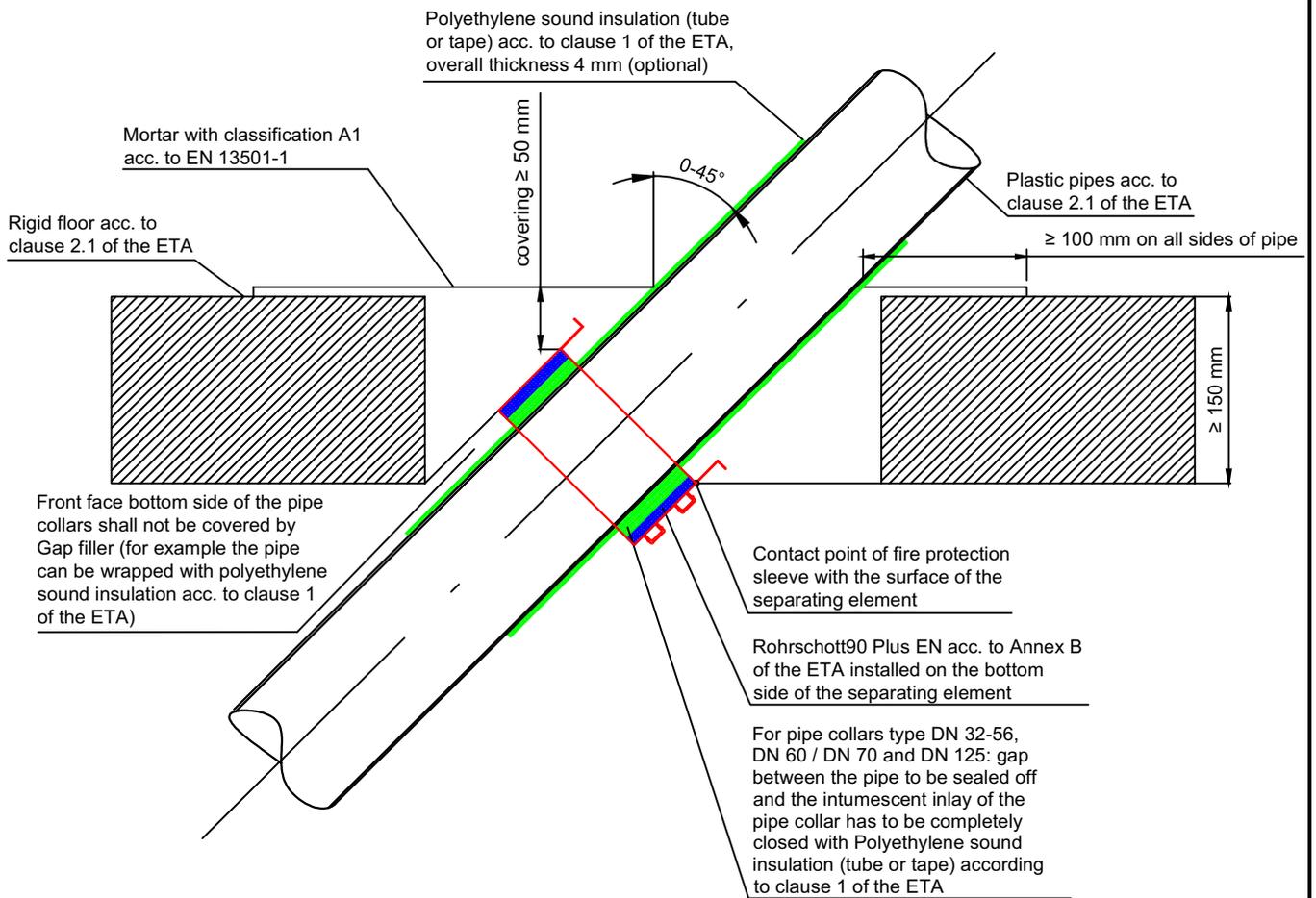
Step 2: Removal of Geberit Schalungsschoner mit integrierter Befestigung (Geberit formwork guard with integrated fastening) and installation of Rohrschott90 Plus EN



**Rohrschott90 Plus EN
 - Installation in rigid floor-**

ANNEX E-14

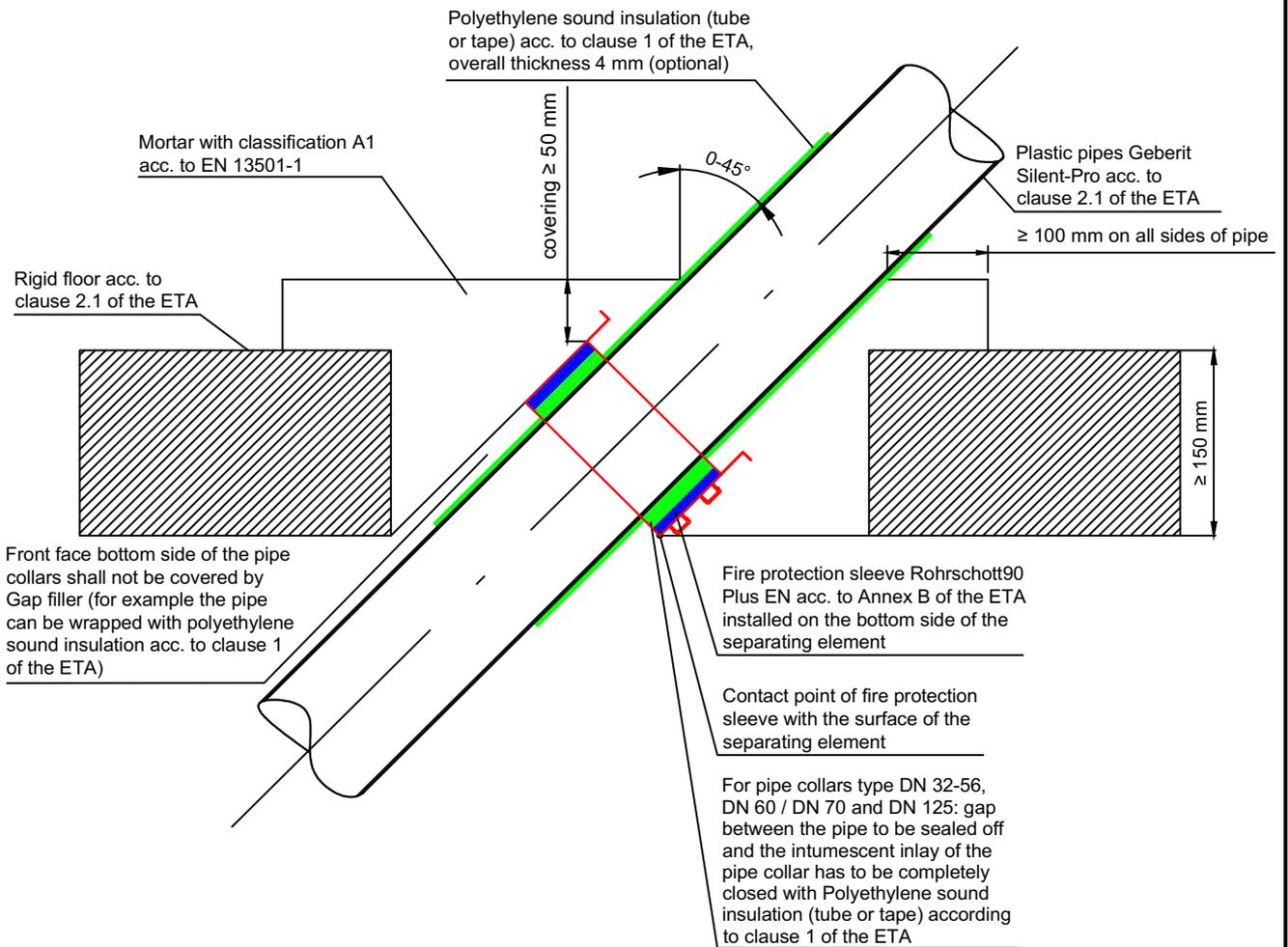
Plastic pipes acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side partially within the separating element – Installation drawing – sectional view



**Rohrschott90 Plus EN
 - Installation in rigid floor-**

ANNEX E-15

Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side flushed within the separating element – Installation drawing – sectional view

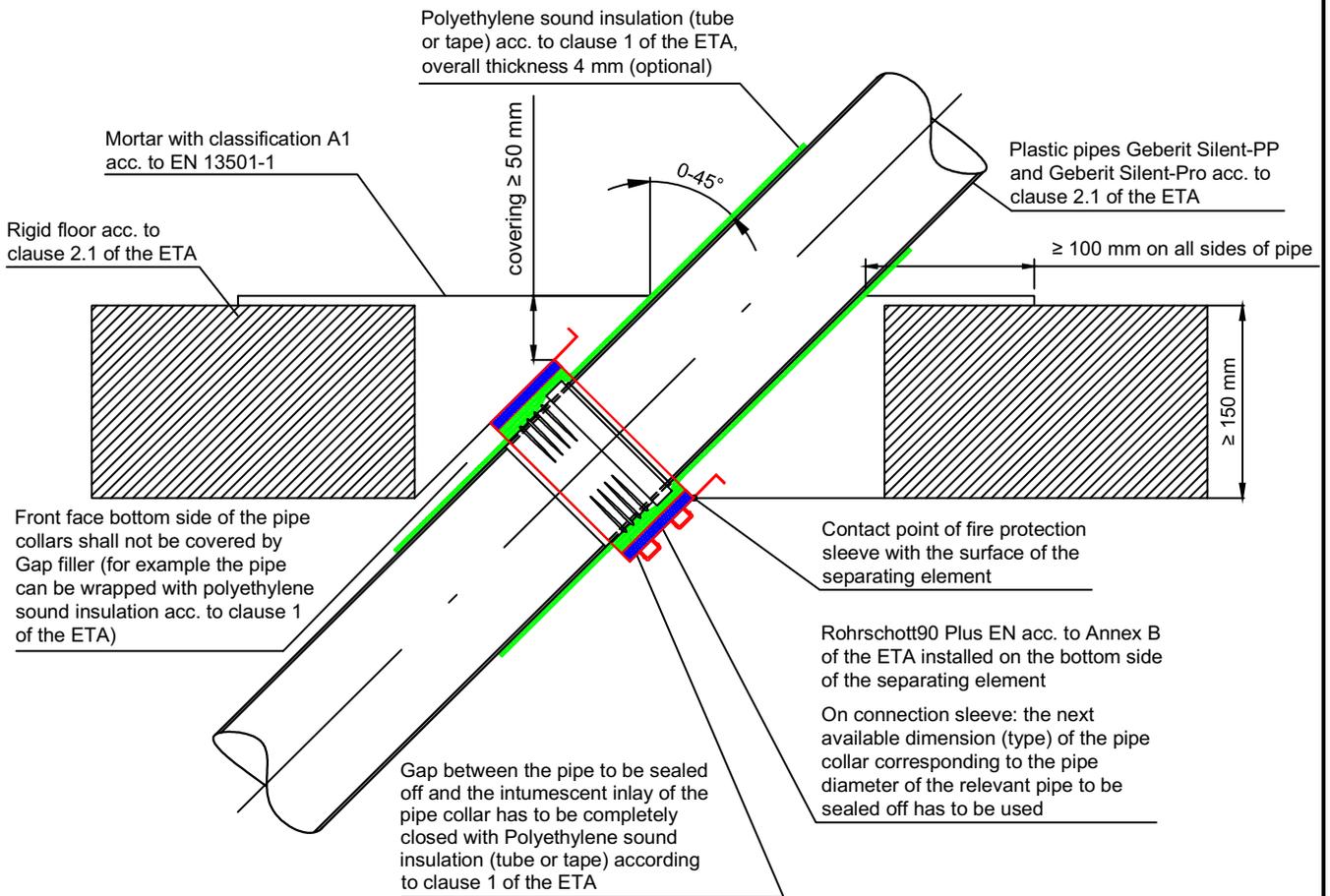


**Rohrschott90 Plus EN
 - Installation in rigid floor-**

ANNEX E-16

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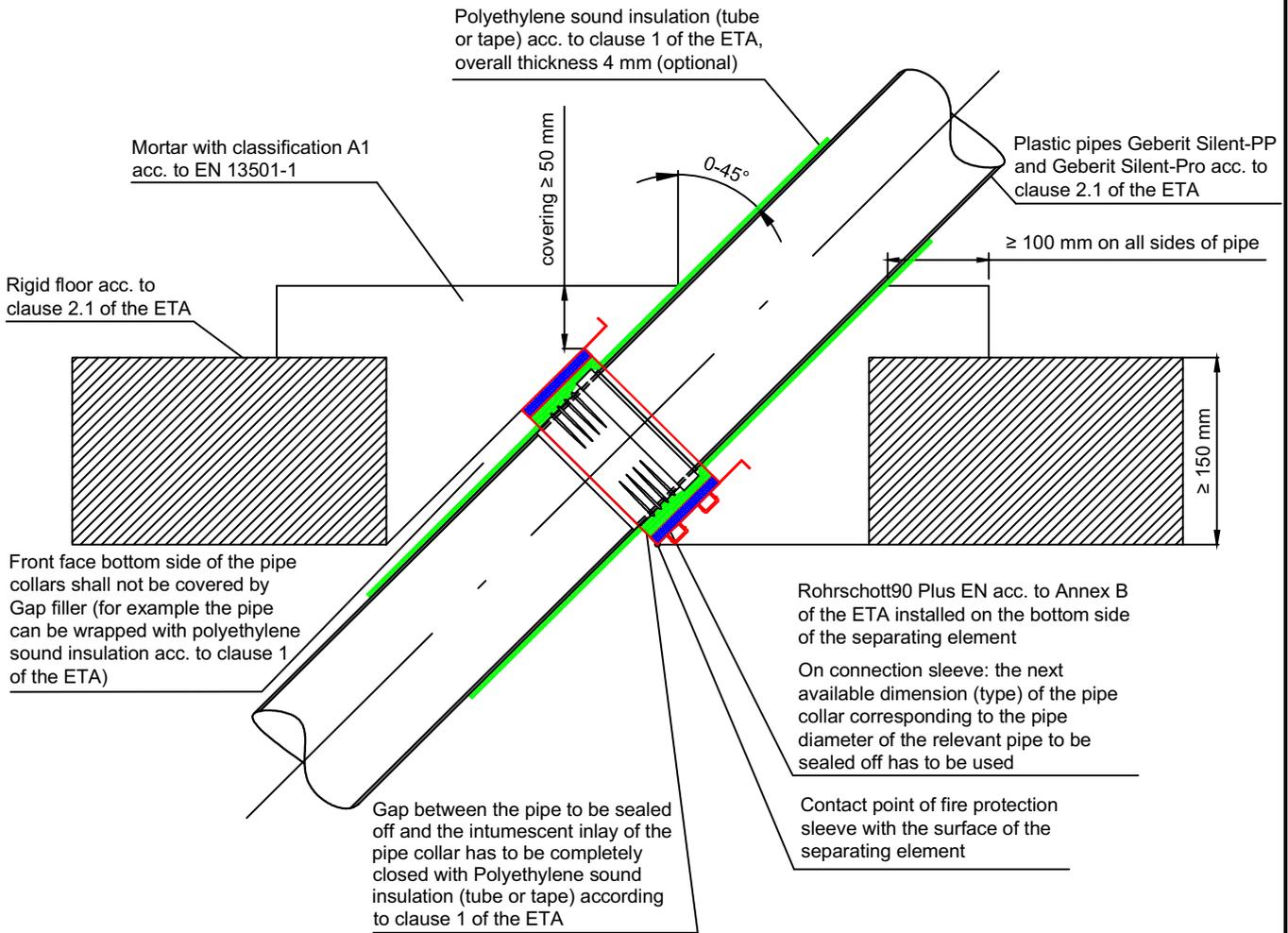
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on the bottom side partially within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
 - Installation in rigid floor-

ANNEX E-17

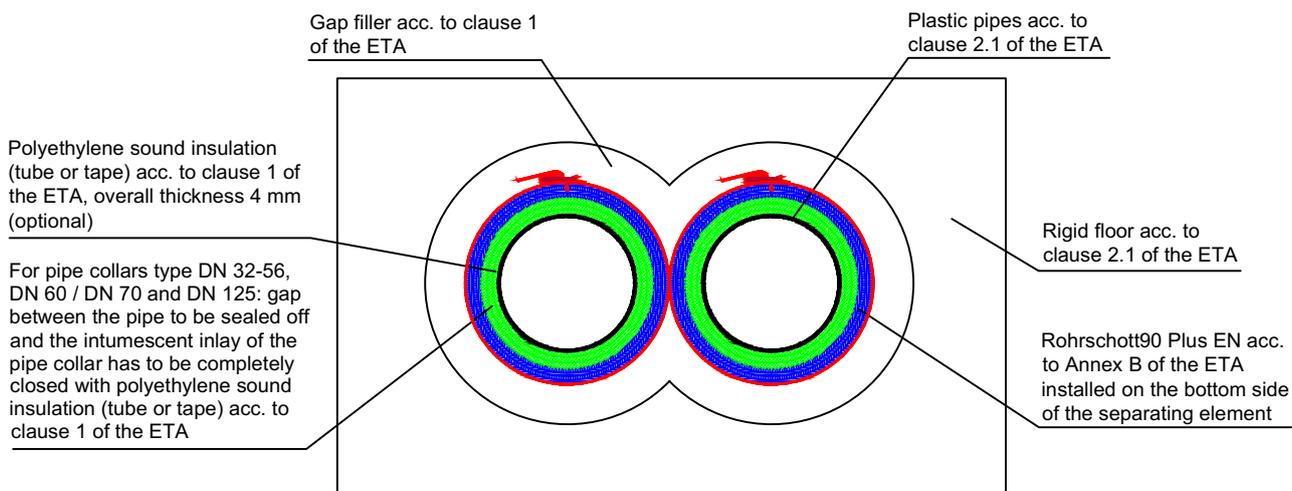
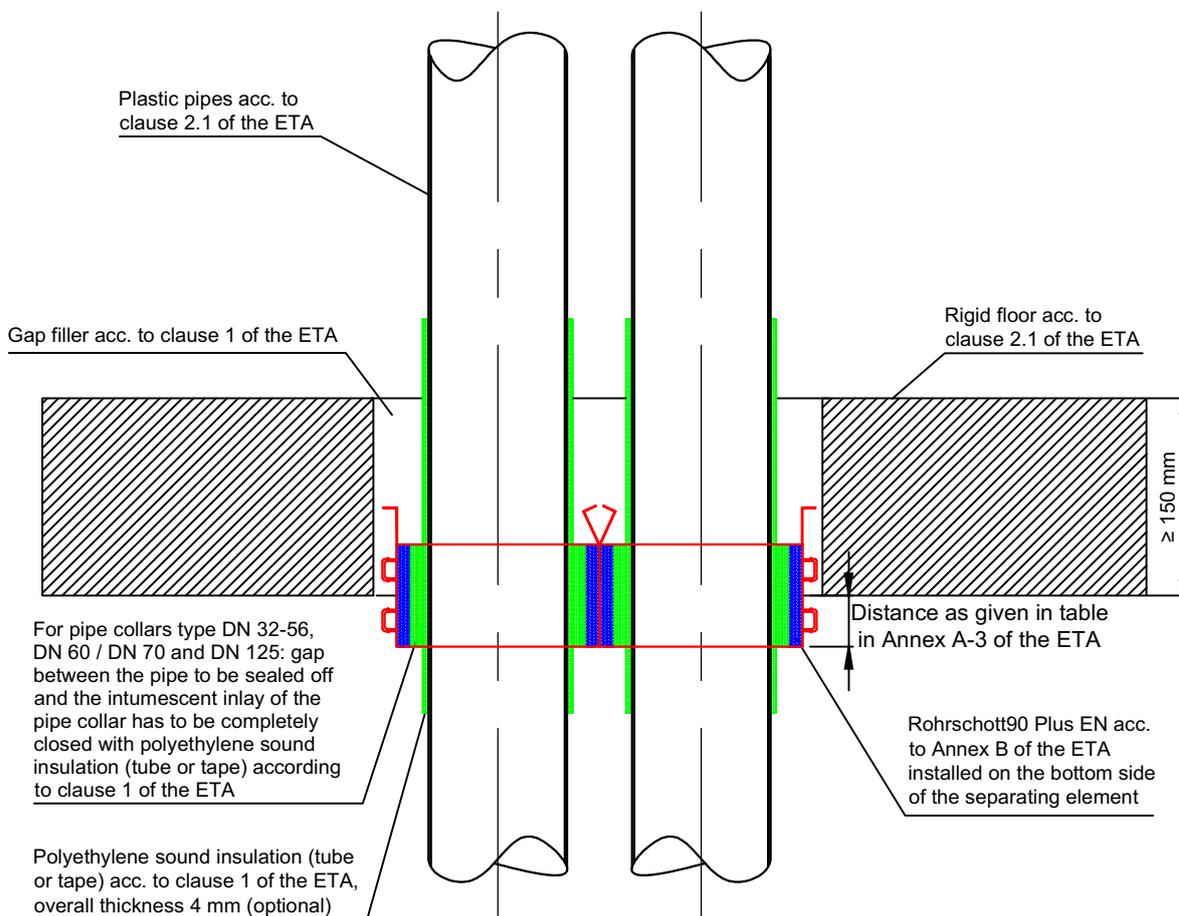
Plastic pipes Geberit Silent-PP and Geberit Silent-Pro acc. to cl. 2.1 of the ETA installed in an angle between 90° and 45° – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on the bottom side flushed within the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-18

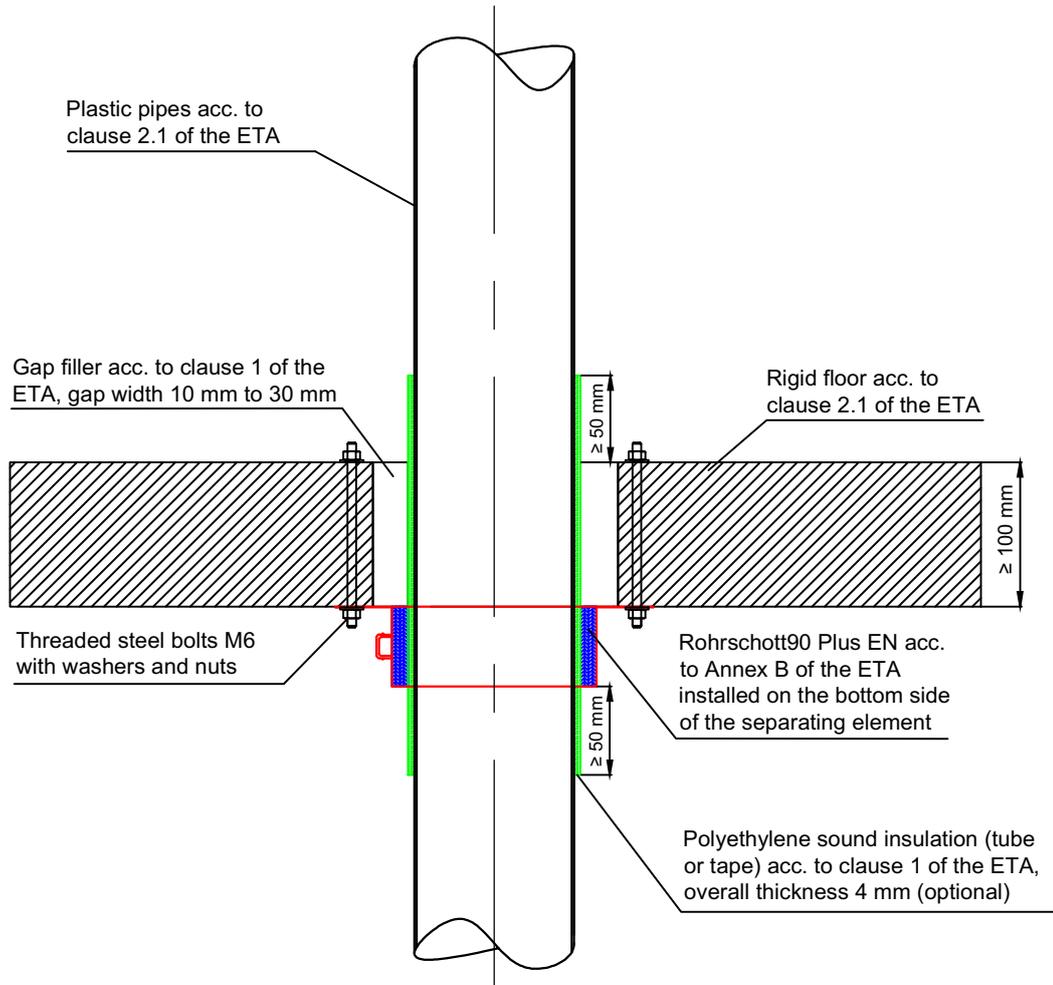
Plastic pipes acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA – Minimum distance between two pipe collars (0 mm) – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-19

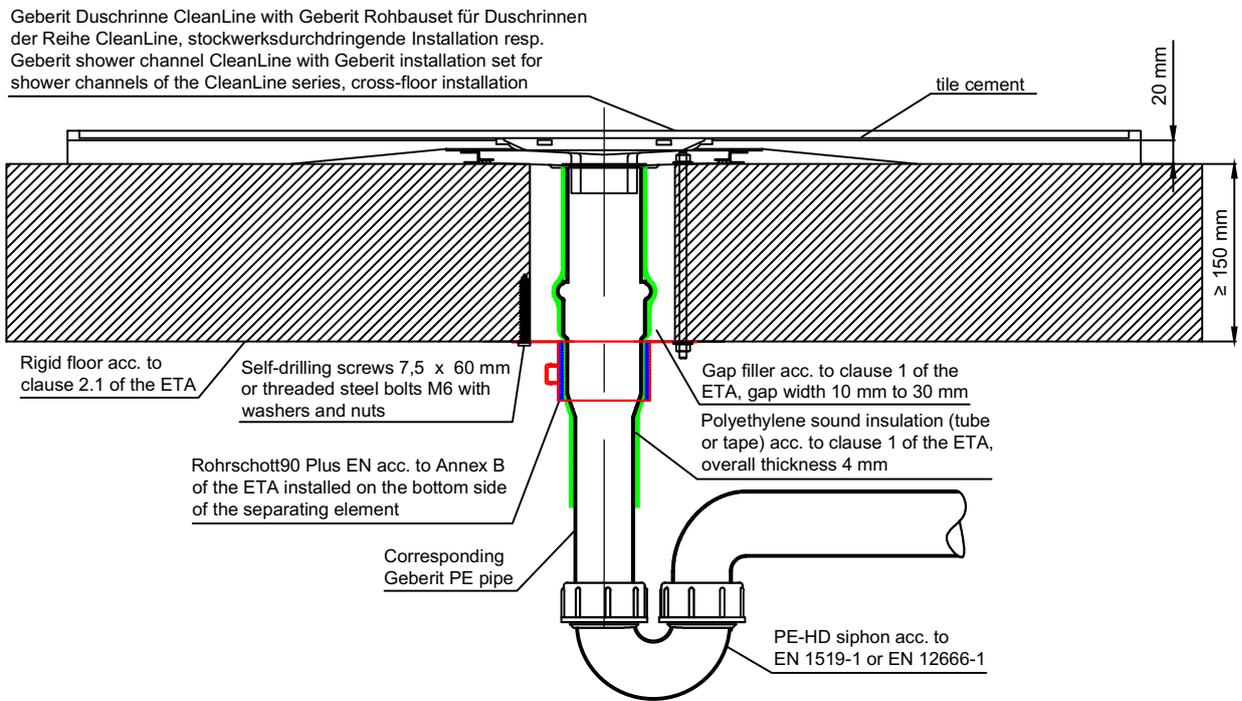
**Plastic pipes acc. to cl. 2.1 of the ETA – in rigid floors with a thickness of minimum 100 mm
acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of
the separating element – Installation drawing – sectional view**



**Rohrschott90 Plus EN
- Installation in rigid floor-**

ANNEX E-20

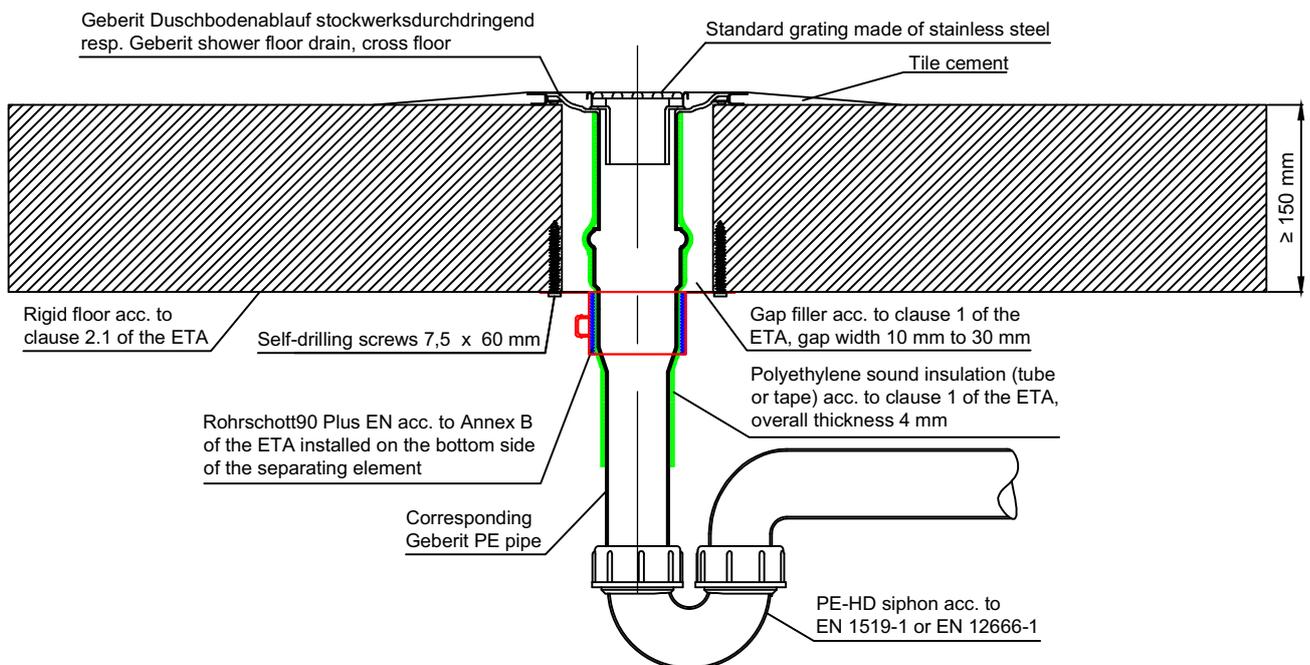
Shower floor drain, cross floor “Geberit Duschrinne CleanLine” with “Geberit Rohbauset für Duschrinnen der Reihe CleanLine, stockwerksdurchdringende Installation” resp “Geberit shower channel CleanLine” with “Geberit installation set for shower channels of the CleanLine series, cross-floor installation” (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
 - Installation in rigid floor-

ANNEX E-21

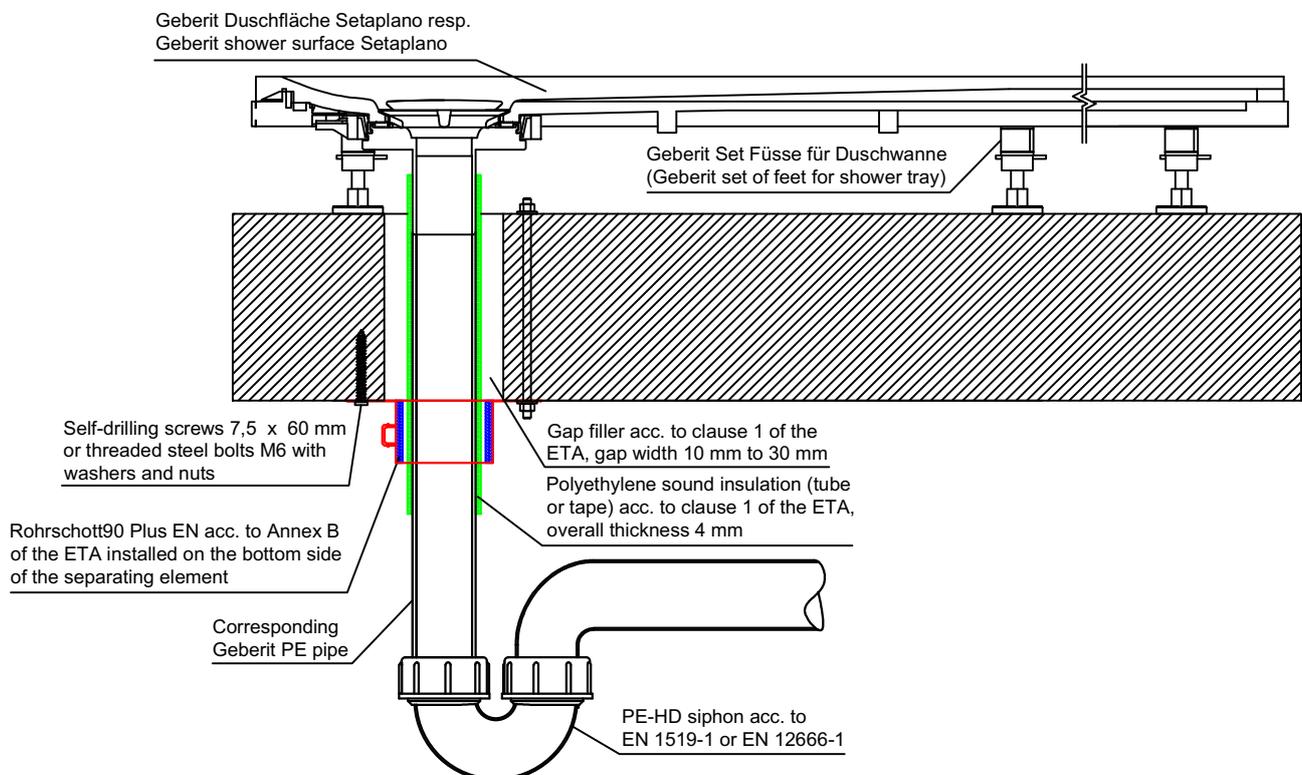
Shower floor drain, cross floor “Geberit Duschbodenablauf stockwerksdurchdringend” resp. “Geberit shower floor drain, cross floor” (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-22

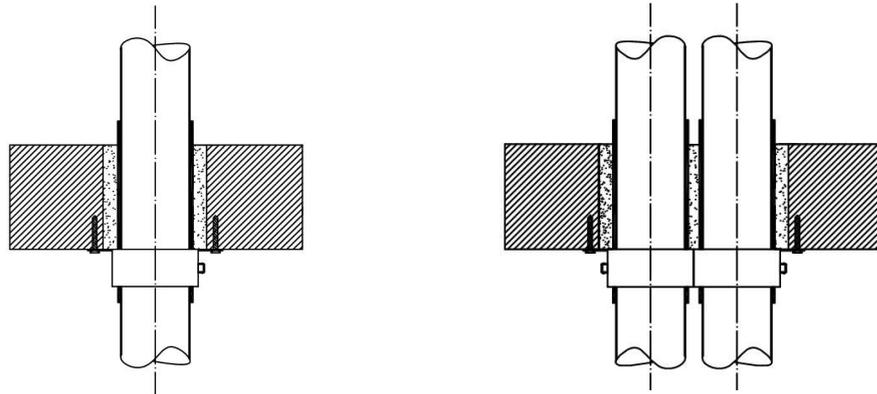
Shower floor drain, cross floor “Geberit Duschfläche Setaplano” resp. “Geberit shower surface Setaplano” (including the corresponding “Geberit PE” pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element – Installation drawing – sectional view



Rohrschott90 Plus EN
- Installation in rigid floor-

ANNEX E-23

PE



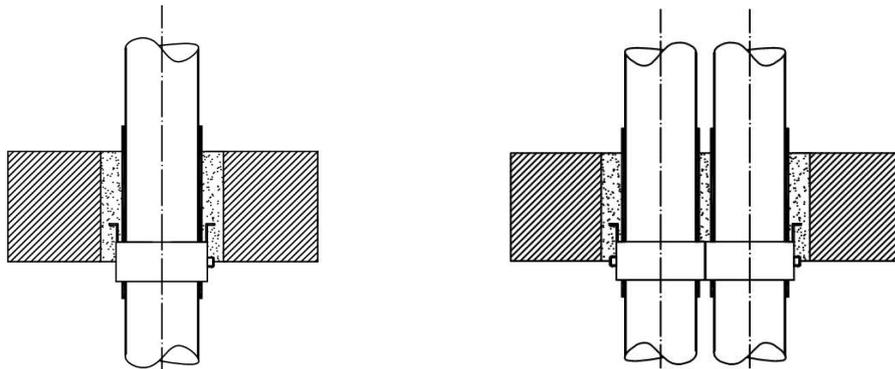
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
56	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,9	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
200	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-1

PE



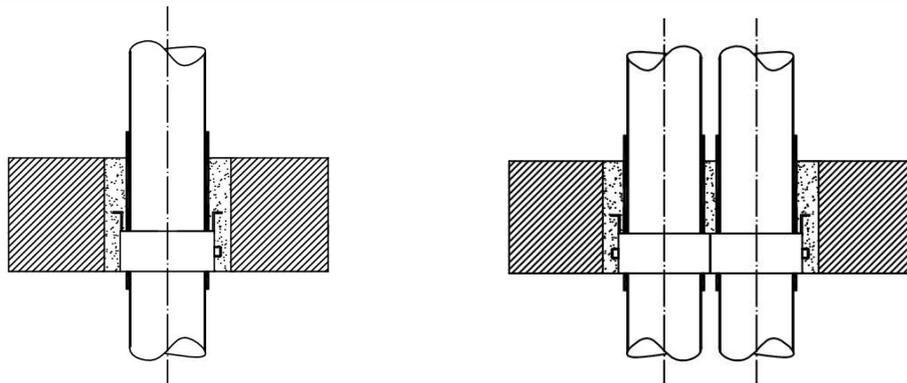
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
56	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,9	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
200	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-2

PE



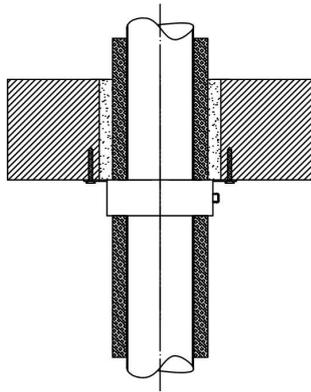
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
56	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
135	4,9	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
200	6,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-3

PE



**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA with AF/Armaflex
(local-sustained LS or continued-sustained CS)**

- in rigid floors acc. to cl. 2.1 of the ETA

- Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element

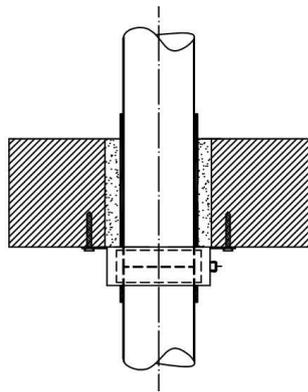
Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Thickness	Thickness	Length on both sides of the separating element	
32	3,0	-----	-----	-----
40	3,0	-----	-----	-----
50	3,0	13,5	≥ 500	EI 90-U/U E 90-U/U
56	3,0	14	≥ 500	EI 90-U/U E 90-U/U
63	3,0	14	≥ 500	EI 90-U/U E 90-U/U
75	3,0	14	≥ 500	EI 90-U/U E 90-U/U
90	3,5	14,5	≥ 500	EI 90-U/U E 90-U/U
110	4,3	15 to 23,5	≥ 500	EI 90-U/U E 90-U/U
135	4,9	15 to 23,5	≥ 500	EI 90-U/U E 90-U/U
160	6,2	16 to 25	≥ 500	EI 90-U/U E 90-U/U
200	6,2	-----	-----	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-4

electronic copy

PE

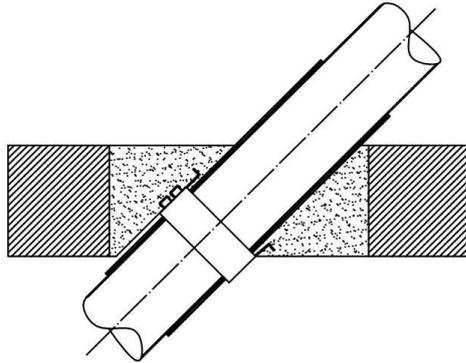


Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) – rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on Geberit Elektroschweißmuffe (Geberit electrofusion sleeve coupling) on the bottom side to the surface of the separating element		
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	3,0	-----
40	3,0	-----
50	3,0	-----
56	3,0	-----
63	3,0	-----
75	3,0	-----
90	3,5	-----
110	4,3	EI 90-U/U E 90-U/U
125	4,9	EI 90-U/U E 90-U/U
160	6,2	-----
200	6,2	-----

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-5

PE



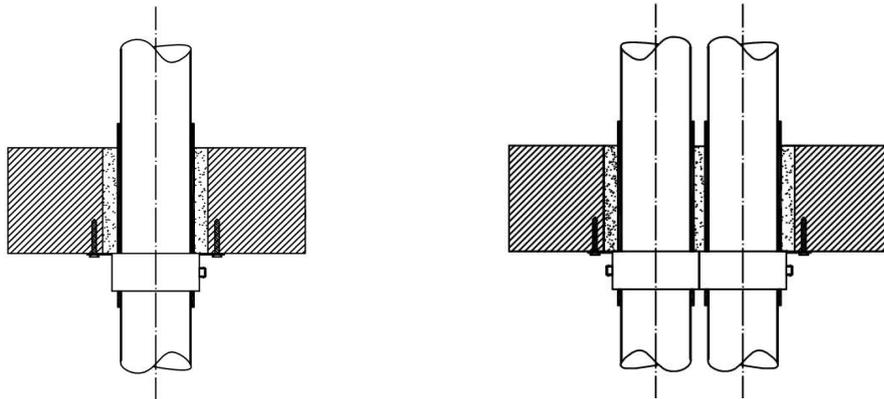
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	3,0	-----
40	3,0	-----
50	3,0	-----
56	3,0	-----
63	3,0	-----
75	3,0	-----
90	3,5	-----
110	4,3	-----
125	4,9	EI 90-U/U E 90-U/U
160	6,2	-----
200	6,2	-----

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-6

Silent-PP



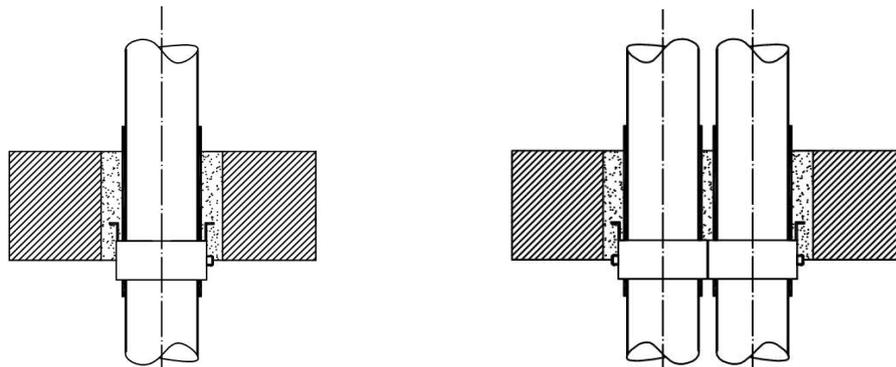
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-7

Silent-PP



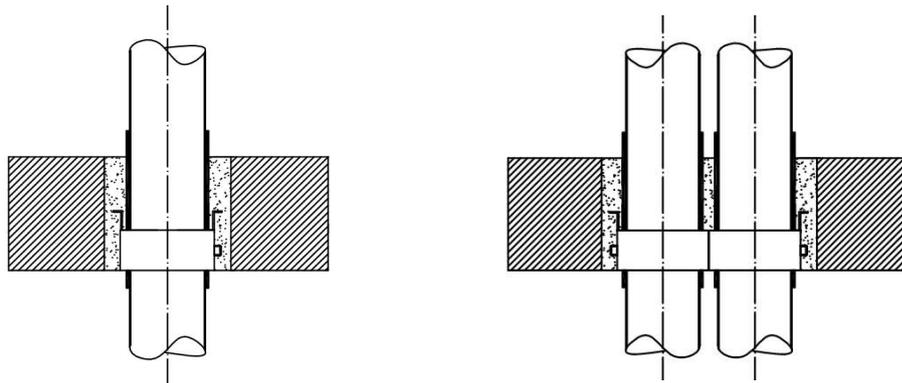
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX F-8

Silent-PP



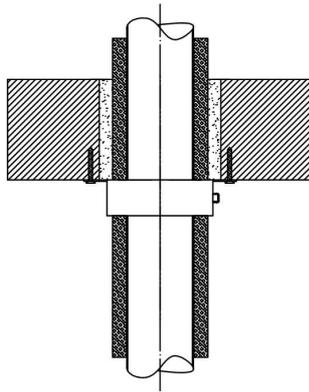
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
32	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-9

Silent-PP



**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA with AF/Armaflex
(local-sustained LS or continued-sustained CS)**

- in rigid floors acc. to cl. 2.1 of the ETA

- Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element

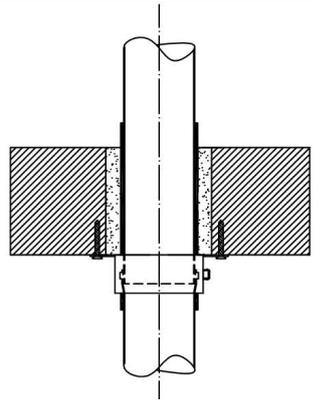
Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Thickness	Thickness	Length on both sides of the separating element	
32	2,0	-----	-----	-----
40	2,0	-----	-----	-----
50	2,0	13,5	≥ 500	EI 90-U/U E 90-U/U
75	2,6	14	≥ 500	EI 90-U/U E 90-U/U
90	3,1	14,5	≥ 500	EI 90-U/U E 90-U/U
110	3,6	15 to 18	≥ 500	EI 90-U/U E 90-U/U
125	4,2	15 to 23,5	≥ 500	EI 90-U/U E 90-U/U
160	5,2	16 to 25	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-10

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Silent-PP



**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on the bottom side to the surface of the separating element**

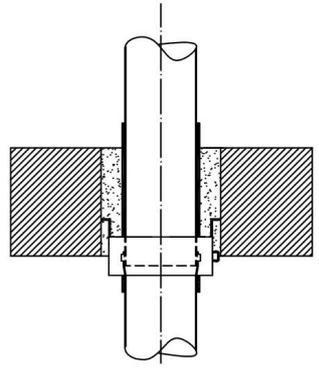
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-11

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Silent-PP



**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on the bottom side partially within the separating element**

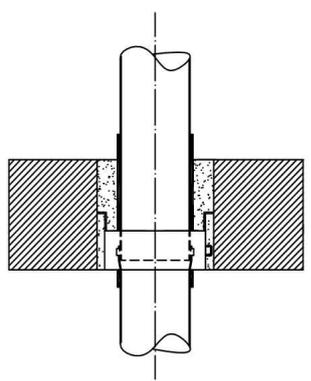
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U
160	5,2	-----

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-12

electronic copy

Silent-PP



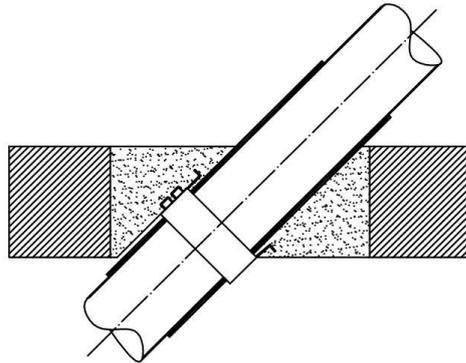
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on the bottom side flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	EI 90-U/U E 90-U/U
40	2,0	EI 90-U/U E 90-U/U
50	2,0	EI 90-U/U E 90-U/U
75	2,6	EI 90-U/U E 90-U/U
90	3,1	EI 90-U/U E 90-U/U
110	3,6	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U
160	5,2	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-13

Silent-PP



Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side partially within the separating element

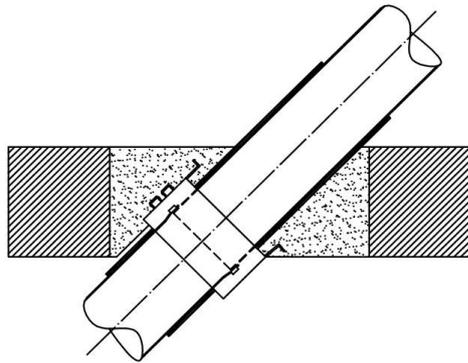
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	-----
40	2,0	-----
50	2,0	-----
75	2,6	-----
90	3,1	-----
110	3,6	-----
125	4,2	EI 90-U/U E 90-U/U
160	5,2	-----

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-14

electronic copy

Silent-PP



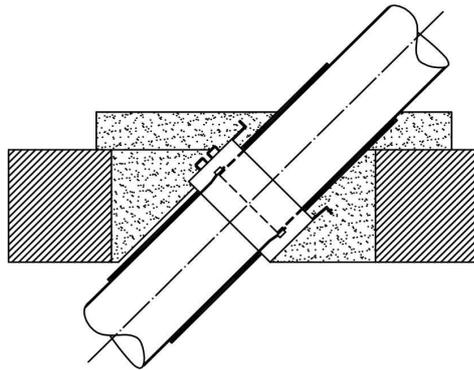
Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45° – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on the bottom side partially within the separating element

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	-----
40	2,0	-----
50	2,0	-----
75	2,6	-----
90	3,1	-----
110	3,6	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U
160	5,2	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-15

Silent-PP



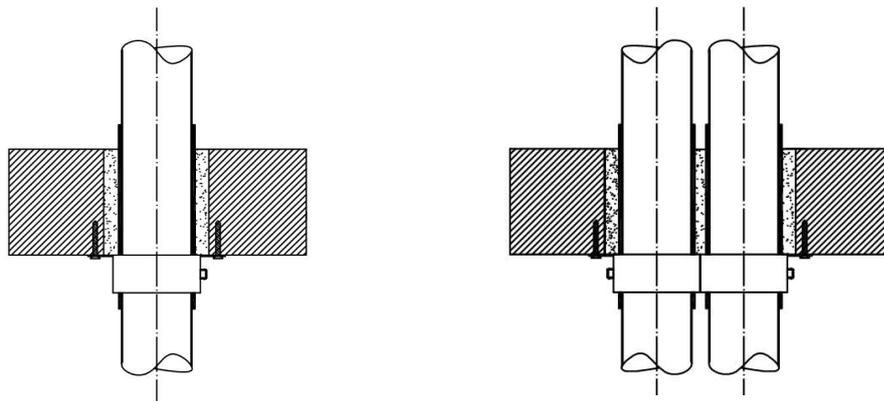
Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on the bottom side flushed within the separating element

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	2,0	-----
40	2,0	-----
50	2,0	-----
75	2,6	-----
90	3,1	-----
110	3,6	EI 90-U/U E 90-U/U
125	4,2	EI 90-U/U E 90-U/U
160	5,2	-----

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-16

Silent-db20



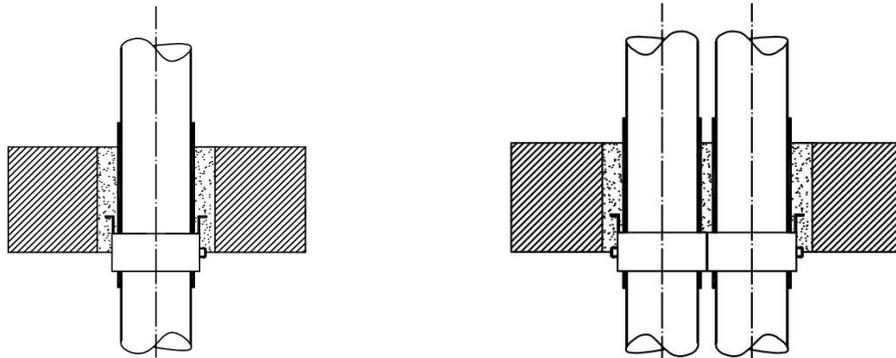
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
56	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	5,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
135	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	7,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-17

Silent-db20



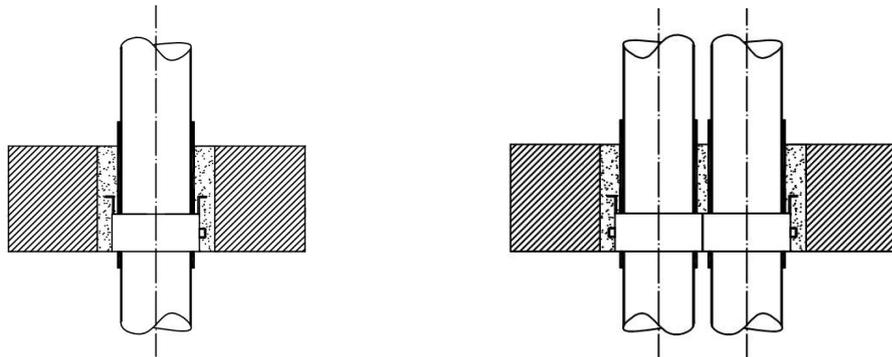
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
56	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	5,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
135	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	7,0	EI 90-U/U E 90-U/U	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-18

Silent-db20



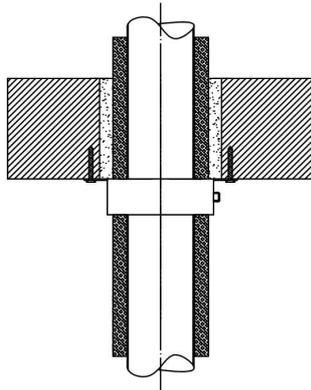
Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side flushed within the separating element

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
56	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
63	3,2	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,6	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	5,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
135	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	7,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-19

Silent-db20



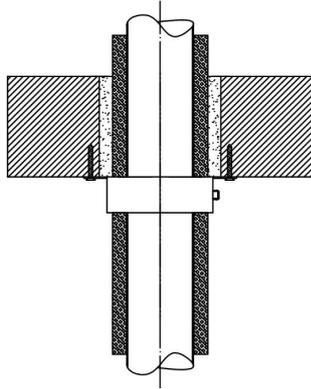
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Thickness	Thickness	Length on both sides of the separating element	
56	3,2	17	≥ 500	EI 90-U/U E 90-U/U
63	3,2	17	≥ 500	EI 90-U/U E 90-U/U
75	3,6	17	≥ 500	EI 90-U/U E 90-U/U
90	5,5	17	≥ 500	EI 90-U/U E 90-U/U
110	6,0	17	≥ 500	EI 90-U/U E 90-U/U
135	6,0	17	≥ 500	EI 90-U/U E 90-U/U
160	7,0	17	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-20

Silent-db20



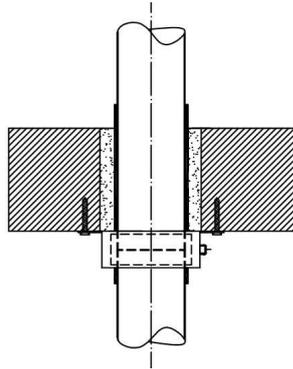
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA with AF/Armaflex
(local-sustained LS or continued-sustained CS)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Thickness	Thickness	Length on both sides of the separating element	
56	3,2	14	≥ 500	EI 90-U/U E 90-U/U
63	3,2	14	≥ 500	EI 90-U/U E 90-U/U
75	3,6	14	≥ 500	EI 90-U/U E 90-U/U
90	5,5	14,5	≥ 500	EI 90-U/U E 90-U/U
110	6,0	15 to 23,5	≥ 500	EI 90-U/U E 90-U/U
135	6,0	15,5 to 24	≥ 500	EI 90-U/U E 90-U/U
160	7,0	16 to 25	≥ 500	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX F-21

Silent-db20



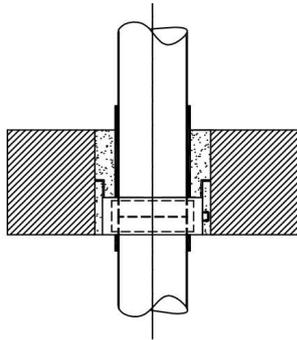
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on Geberit Elektroschweißmuffe (Geberit electrofusion sleeve coupling) on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
56	3,2	-----
63	3,2	-----
75	3,6	-----
90	5,5	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U
135	6,0	-----
160	7,0	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-22

Silent-db20



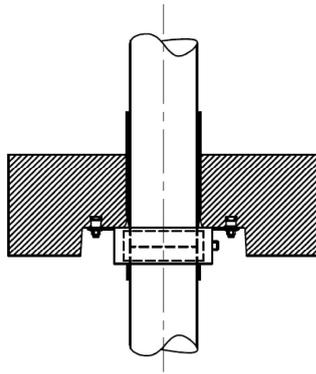
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on Geberit Elektroschweißmuffe (Geberit electrofusion sleeve coupling) on the bottom side flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
56	3,2	-----
63	3,2	-----
75	3,6	-----
90	5,5	EI 90-U/U E 90-U/U
110	6,0	EI 90-U/U E 90-U/U
135	6,0	EI 90-U/U E 90-U/U
160	7,0	-----

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-23

Silent-db20



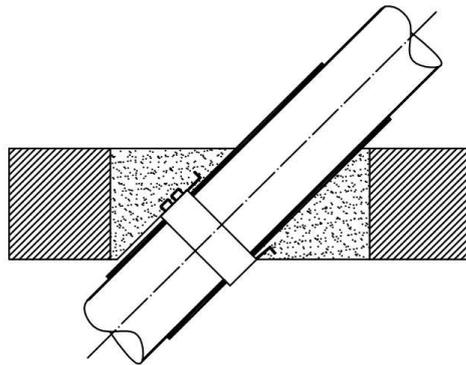
Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in concrete floors (rigid floors) acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed (optionally on Geberit Elektroschweißmuffe (Geberit electrofusion sleeve coupling)) on the bottom side to the surface of the separating element and fixed to the integrated fastenings of Geberit Schalungsschoner mit integrierter Befestigung (Geberit formwork guard with integrated fastening)

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
56	3,2	-----
63	3,2	-----
75	3,6	-----
90	5,5	-----
110	6,0	EI 90-U/U E 90-U/U
135	6,0	-----
160	7,0	-----

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-24

Silent-db20



Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side partially within the separating element

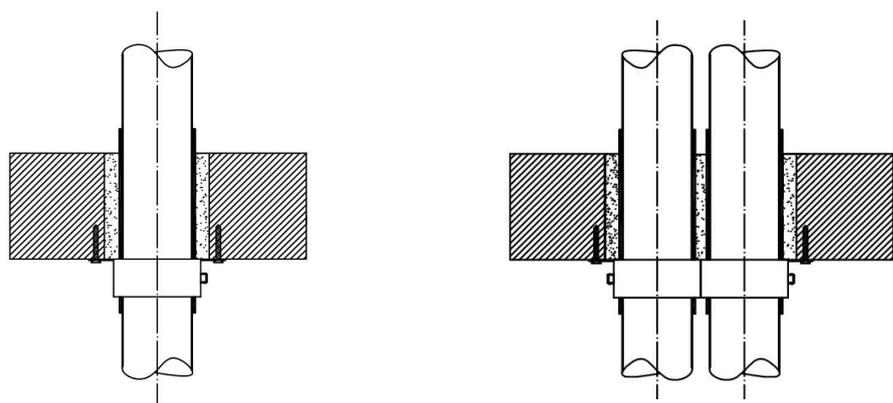
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
56	3,2	-----
63	3,2	-----
75	3,6	-----
90	5,5	-----
110	6,0	-----
135	6,0	EI 90-U/U E 90-U/U
160	7,0	-----

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-25

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Silent-Pro



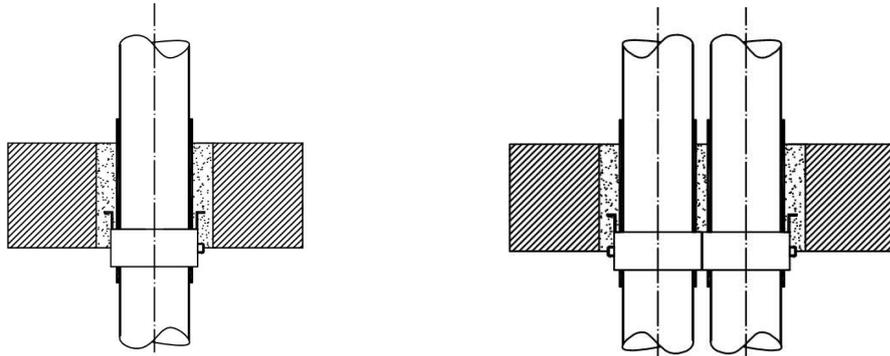
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-26

Silent-Pro



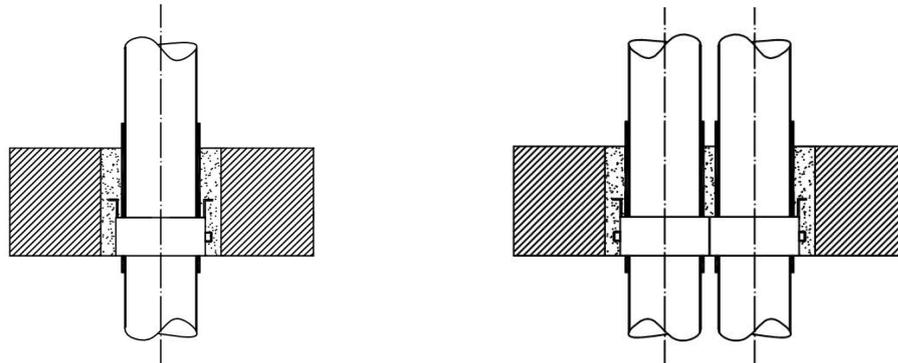
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side partially within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX F-27

Silent-Pro



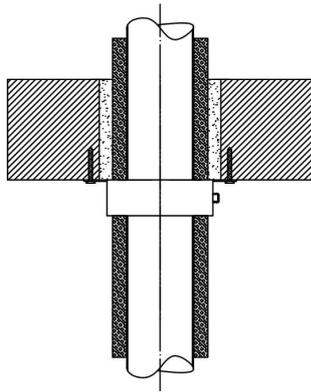
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side flushed within the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-28

Silent-Pro



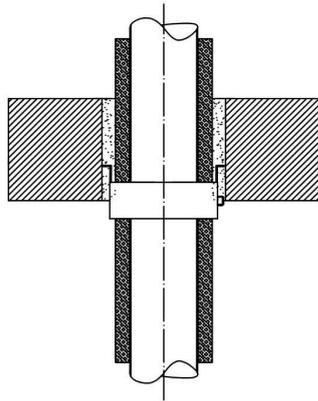
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
50	3,0	17	≥ 500	EI 90-U/U E 90-U/U
75	3,8	17	≥ 500	EI 90-U/U E 90-U/U
90	4,3	17	≥ 500	EI 90-U/U E 90-U/U
110	4,5	17	≥ 500	EI 90-U/U E 90-U/U
125	5,0	17	≥ 500	EI 90-U/U E 90-U/U
160	6,0	17	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-29

Silent-Pro



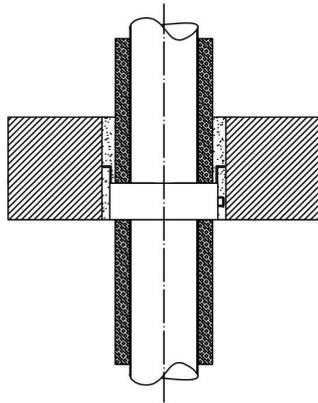
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side partially within the separating element**

Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
50	3,0	17	≥ 500	EI 90-U/U E 90-U/U
75	3,8	17	≥ 500	EI 90-U/U E 90-U/U
90	4,3	17	≥ 500	EI 90-U/U E 90-U/U
110	4,5	17	≥ 500	EI 90-U/U E 90-U/U
125	5,0	17	≥ 500	EI 90-U/U E 90-U/U
160	6,0	17	≥ 500	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-30

Silent-Pro



**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with Sound insulation mat acc. to cl. 1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on the bottom side flushed within the separating element**

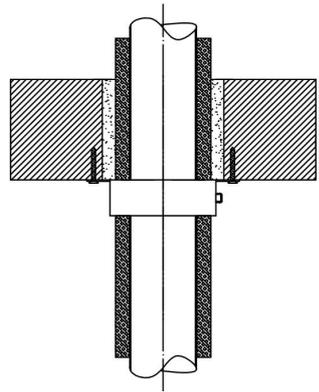
Pipe dimensions (mm)		Sound insulation mat Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
50	3,0	17	≥ 500	EI 90-U/U E 90-U/U
75	3,8	17	≥ 500	EI 90-U/U E 90-U/U
90	4,3	17	≥ 500	EI 90-U/U E 90-U/U
110	4,5	17	≥ 500	EI 90-U/U E 90-U/U
125	5,0	17	≥ 500	EI 90-U/U E 90-U/U
160	6,0	17	≥ 500	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX F-31

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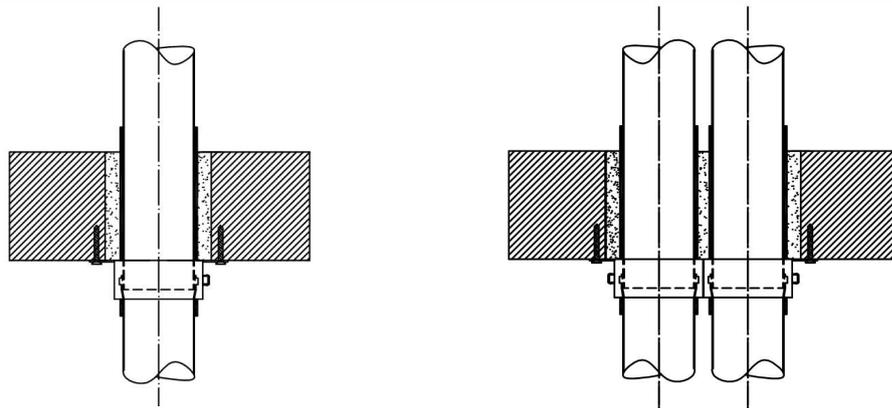
Silent-Pro



Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA with AF/Armaflex (local-sustained LS or continued-sustained CS) – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element				
Pipe dimensions (mm)		AF/Armaflex Symmetrical insulation (mm)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length on both sides of the separating element	
50	3,0	13,5	≥ 500	EI 90-U/U E 90-U/U
75	3,8	14	≥ 500	EI 90-U/U E 90-U/U
90	4,3	14,5	≥ 500	EI 90-U/U E 90-U/U
110	4,5	15 to 18	≥ 500	EI 90-U/U E 90-U/U
125	5,0	15 to 23,5	≥ 500	EI 90-U/U E 90-U/U
160	6,0	16 to 25	≥ 500	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN - Fire resistance classification -	ANNEX F-32
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Silent-Pro



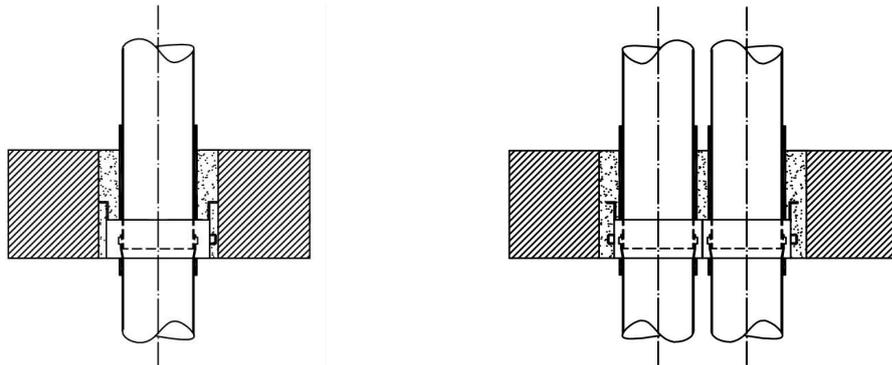
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
– in rigid floors acc. to cl. 2.1 of the ETA
– Rohrschott90 Plus EN installed on connection sleeve on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
- Fire resistance classification -**

ANNEX F-33

Silent-Pro



**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on connection sleeve on the bottom side flushed within the separating element**

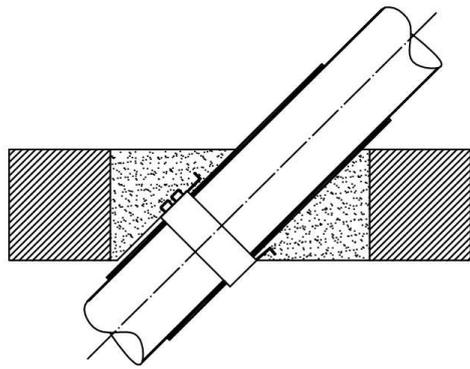
Pipe dimensions (mm)		Fire resistance classification	
Outer diameter	Wall thickness	Single pipe	Minimum distance between two pipe collars (0 mm)
50	3,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U	EI 90-U/U E 90-U/U
160	6,0	-----	-----

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-35

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Silent-Pro



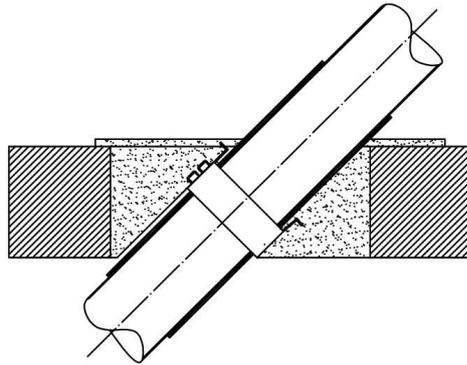
Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45° – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on the bottom side partially within the separating element

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-36

Silent-Pro



Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45°
 – in rigid floors acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side flushed within the separating element

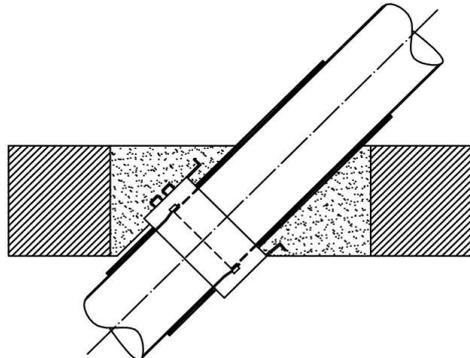
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
 - Fire resistance classification -

ANNEX F-37

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Silent-Pro



Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA) installed in an angle between 90° and 45° – in rigid floors acc. to cl. 2.1 of the ETA – Rohrschott90 Plus EN installed on connection sleeve on the bottom side partially within the separating element

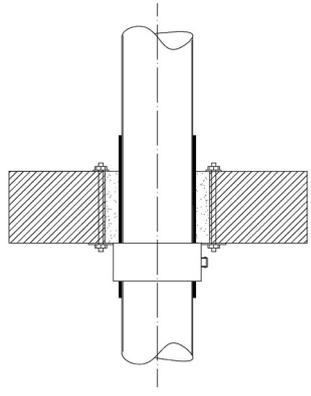
Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-38

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PE



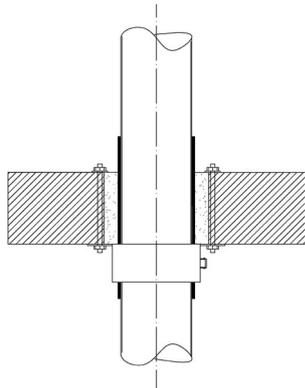
**Plastic pipes Geberit PE acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors with a thickness of minimum 100 mm acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
32	3,0	-----
40	3,0	-----
50	3,0	-----
56	3,0	-----
63	3,0	-----
75	3,0	-----
90	3,5	-----
110	4,3	-----
135	4,9	-----
160	6,2	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-40

Silent-PP



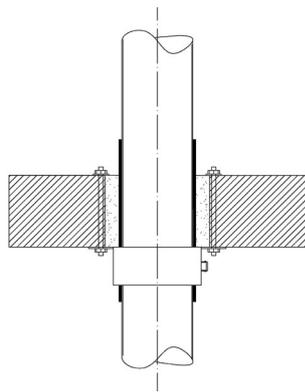
**Plastic pipes Geberit Silent-PP acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA)
 – in rigid floors with a thickness of minimum 100 mm acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	2,0	-----
75	2,6	-----
90	3,1	-----
110	3,6	-----
125	4,2	-----
160	5,2	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-41

Silent-db20



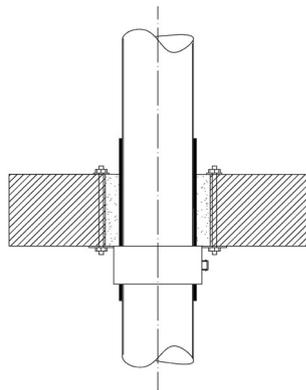
**Plastic pipes Geberit Silent-db20 acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) acc. to cl. 1 of the ETA)
 – in rigid floors with a thickness of minimum 100 mm acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
56	3,2	-----
63	3,2	-----
75	3,6	-----
90	5,5	-----
110	6,0	-----
135	6,0	-----
160	7,0	EI 90-U/U E 90-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-42

Silent-Pro



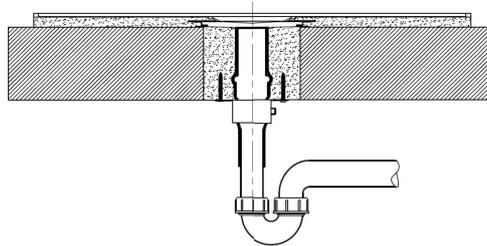
**Plastic pipes Geberit Silent-Pro acc. to cl. 2.1 of the ETA (optionally with Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA)
 – in rigid floors with a thickness of minimum 100 mm acc. to cl. 2.1 of the ETA
 – Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element**

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U
75	3,8	EI 90-U/U E 90-U/U
90	4,3	EI 90-U/U E 90-U/U
110	4,5	EI 90-U/U E 90-U/U
125	5,0	EI 90-U/U E 90-U/U
160	6,0	EI 90-U/U E 90-U/U

**Rohrschott90 Plus EN
 - Fire resistance classification -**

ANNEX F-43

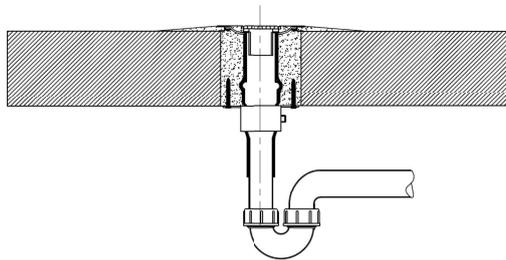
Shower floor drain, cross floor



Geberit Duschrinne CleanLine with Geberit Rohbausset für Duschrinnen der Reihe CleanLine, stockwerksdurchdringende Installation resp. Geberit shower channel CleanLine with Geberit installation set for shower channels of the CleanLine series, cross-floor installation (including the corresponding Geberit PE pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) acc. to cl. 2.1 of the ETA with Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA

- in rigid floors with a thickness of minimum 150 mm acc. to cl. 2.1 of the ETA
- Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 90-U/U E 90-U/U



Geberit Duschbodenablauf stockwerksdurchdringend resp. Geberit shower floor drain, cross floor (including the corresponding Geberit PE pipe and a PE-HD siphon according to EN 1519-1 or EN 12666-1) acc. to cl. 2.1 of the ETA with Polyethylene sound insulation (tube or tape) according to clause 1 of the ETA

- in rigid floors with a thickness of minimum 150 mm acc. to cl. 2.1 of the ETA
- Rohrschott90 Plus EN installed on the bottom side to the surface of the separating element

Pipe dimensions (mm)		Fire resistance classification
Outer diameter	Wall thickness	
50	3,0	EI 60-U/U E 60-U/U

Rohrschott90 Plus EN
- Fire resistance classification -

ANNEX F-44

