PRODUCT PACK

CFS-D 25: Firestop cable disc

European Technical Assesment

ETA-16/0050

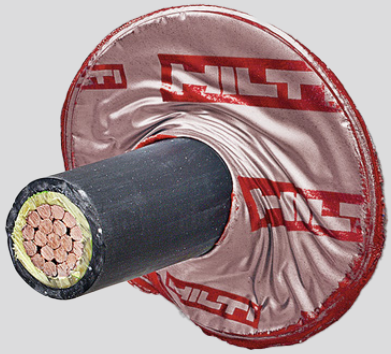
TECHNICAL DATA

APPLICATIONS

CHANGE LOG









Revision 03 – 04/2026

FIRESTOP CABLE DISC CFS-D 25





LV: DataCom



MV: Electric Power



Conduits: Plastic / Metal

APPLICATIONS

- Pre-formed firestop solution for single and multiple cables in openings up to max. 25 mm
- For use on drywall, masonry and concrete
- Suitable for a broad range of low-voltage and mid-voltage cables
- Suitable for plastic and metal conduits
- Suitable for small plastic and metal pipe penetrations
- Covers regular and irregular openings (including blank openings)
- Firestops new and existing cable installations
- Seals through-penetrations and one-sided penetrations
- All cable types currently and commonly used in building practice in Europe (e.g. power, control, signal, telecommunication, emer-gency and optical fiber cables)

Technical data

Color	Red
Intumescent	No
Application temperature range	0 – 40 °C
Storage and transportation temperature range	-5 – 40 °C
Shelf life[1)]	24 months

[1)] at 25°C and 50% relative humidity; from date of manufacture

ADVANTAGES

- Simple – sealant-free installation
- Fast – installed in 10 seconds
- Powerful – broad application range
- Intuitive – easy to install
- Surface-mounted solution
- No backfilling material required
- Shelf life of 24 months
- Minimizes waste





Order description	Packaging	Content	Item number
Firestop Cable Disc	Box	32 PC	2116246

INSTALLATION INSTRUCTIONS

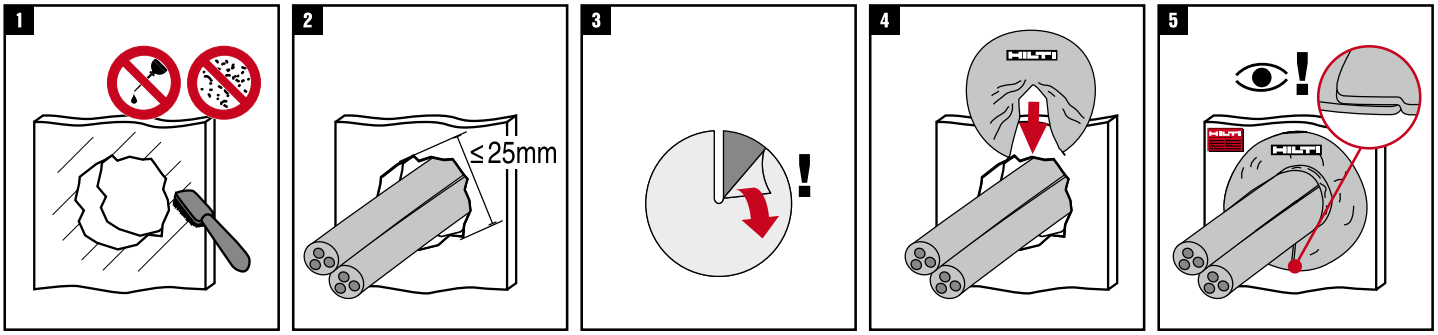
www.hilti.com
fsselector.hilti.com

en Before handling and for specific application details, refer to Hilti product literature, 3rd party published listings and national approvals. For industrial use only.

de Vor Gebrauch und für spezifische Anwendungshinweise lesen Sie die Hilti Produktbeschreibungen, veröffentlichte Listungen von Fremdüberwachern und nationale Zulassungen. Nur für gewerbliche Anwender.

fr Avant toute utilization et pour tout detail concernant une application, référer à la documentation Hilti, à la liste de publications des tierces parties et aux approbations nationales. Seulement pour utilisateurs professionnels.

es Antes de usar y para detalles específicos de aplicación, véase la información que acompaña al producto Hilti, el listado publicado por terceros y las aprobaciones nacionales. Solamente para los usuarios profesionales.



ADDITIONAL ATTRIBUTES

Abbreviation	Description
Reaction to fire	Class E according to EN 13501-1
Dangerous substances	No dangerous substances
Protection against noise	Tested according to EN ISO 717-1 Rw (C; Ctr) = 62 (-2;-7) dB – with and without cable
Electrical properties	Tested according to DIN IEC 60093 (VDE 0303 Part 30 : 1993-12). 7,7 10^{14} Ωcm
Durability and serviceability	Y1 according ETAG 026-2
Mold & Mildew Resistance	Tested according to EN ISO 846 Class = 0
VOC	Complies with AgBB regulations
VOC	Complies with Affset regulations A+
Aging	Tested according to DAfStb regulations for the protection and rehabilitation of concrete members
Other	Not applicable / No performance determined

APPLICATION INFORMATION

FOR PIPES/CABLE DIAMETERS

S = Single pipe/cable*

B = pipe/cable Bundle

*For pipes, if no S or B, assume single pipe.

FOR INSULATION

N-C = Non-Combustible (e.g., stone wool etc.)

C = Combustible (e.g., Armaflex, phenolic etc.)

None = No insulation

LS = Local Sustained

LI = Local Interrupted

CS = Continuous Sustained

CI = Continuous Interrupted

Please note, in many cases details have numerous pages. Please check all pages for the necessary information as differing insulation layouts might be on differing pages (e.g., LS one page 1 and LI on page 2 etc.).

PENETRATION TYPE

Single = penetration seal intended for penetrations with only one service passing through

Multi = penetration seal intended for penetrations where more than one service of the same type (e.g. cables) or pipe material group pass through

Mixed = penetration seal intended for penetrations where more than one type of services (e.g. cables and pipes or pipes of different pipe material groups) pass through

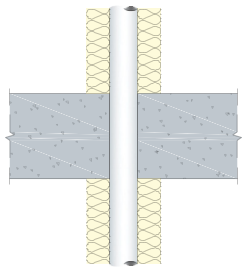
CLASSIFICATION

Classification will give the best-case EI value possible. As such, check each specific detail as there may be instances where a higher I value is possible or another sized service within the application may attain a lower value (e.g., 110mm pipe achieves EI 120 but a 160mm pipe achieves EI 90).

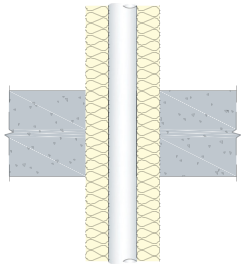
PRODUCT/DETAIL

Full product name first/Detail ID (See specific detail for the full ID).

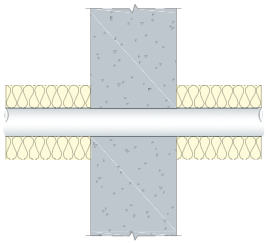
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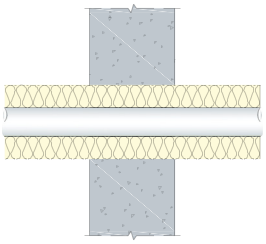
Continued Interrupted (CI)



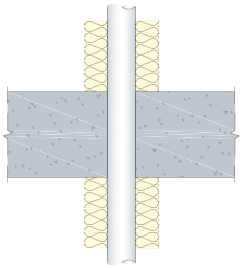
Continued Sustained (CS)



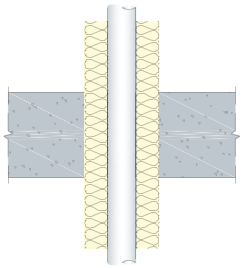
Continued Interrupted (CI)



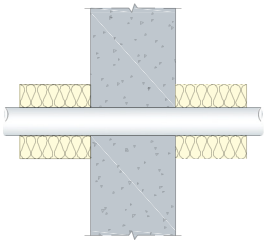
Continued Sustained (CS)



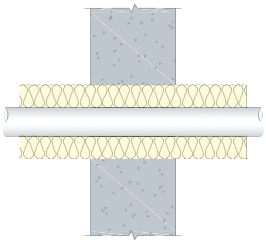
Local Interrupted (LI)



Local Sustained (LS)



Local Interrupted (LI)



Local Sustained (LS)

Single board drywall | Double board drywall | Rigid wall | Timber wall | Sandwich panel | Rigid floor | Timber floor | Metal deck | Linear joints

Mechanical | Electrical | HVAC

Min. base material thickness	Pipes		Insulation			Penetration type			Classification	Product/Detail
	Material	Size	N/C	C	None	Single	Multi	Mixed		
≥ 100	Copper	Ø ≤ 16			✓	✓			EI 60	CFS-D 25:FW/RW-M-01
≥ 100	Steel	Ø ≤ 16			✓	✓			EI 60	CFS-D 25:FW/RW-M-01



Single board drywall | Double board drywall | Rigid wall | Timber wall | Sandwich panel | Rigid floor | Timber floor | Metal deck | Linear joints

Mechanical | Electrical | HVAC

Min. base material thickness	Electrical service					Penetration type			Classification	Product/Detail
	Cables	Tray	Conduit	NC or C conduit	Trunking	Single	Multi	Mixed		
≥ 100	S = Ø ≤ 21 B = Ø ≤ 21					✓	✓		EI 120	CFS-D 25:FW/RW-E-01
≥ 100			S = Ø ≤ 16	C		✓			EI 90	CFS-D 25:FW/RW-E-02



Single board drywall | Double board drywall | Rigid wall | Timber wall | Sandwich panel | Rigid floor | Timber floor | Metal deck | Linear joints

Mechanical | Electrical | HVAC

Min. base material thickness	Pipes		Insulation			Penetration type			Classification	Product/Detail
	Material	Size	N/C	C	None	Single	Multi	Mixed		
≥ 100	Copper	Ø ≤ 16			✓	✓			EI 60	CFS-D 25:FW/RW-M-01
≥ 100	Steel	Ø ≤ 16			✓	✓			EI 60	CFS-D 25:FW/RW-M-01



Min. base material thickness	Electrical service					Penetration type			Classification	Product/Detail
	Cables	Tray	Conduit	NC or C conduit	Trunking	Single	Multi	Mixed		
≥ 75	S = Ø ≤ 21 B = Ø ≤ 21					✓	✓		EI 30	CFS-D 25:FW/RW-E-03
≥ 75			S = Ø ≤ 25	NC		✓			EI 30	CFS-D 25:FW/RW-E-04
≥ 100	S = Ø ≤ 21 B = Ø ≤ 21					✓	✓		EI 120	CFS-D 25:FW/RW-E-01
≥ 100			S = Ø ≤ 16	C		✓			EI 90	CFS-D 25:FW/RW-E-02



Min. base material thickness	Electrical service					Penetration type			Classification	Product/Detail
	Cables	Tray	Conduit	NC or C conduit	Trunking	Single	Multi	Mixed		
≥ 75	S = Ø ≤ 21 B = Ø ≤ 21					✓	✓		EI 30	CFS-D 25:FW/RW-E-03
≥ 75			S = Ø ≤ 25	NC		✓			EI 30	CFS-D 25:FW/RW-E-04



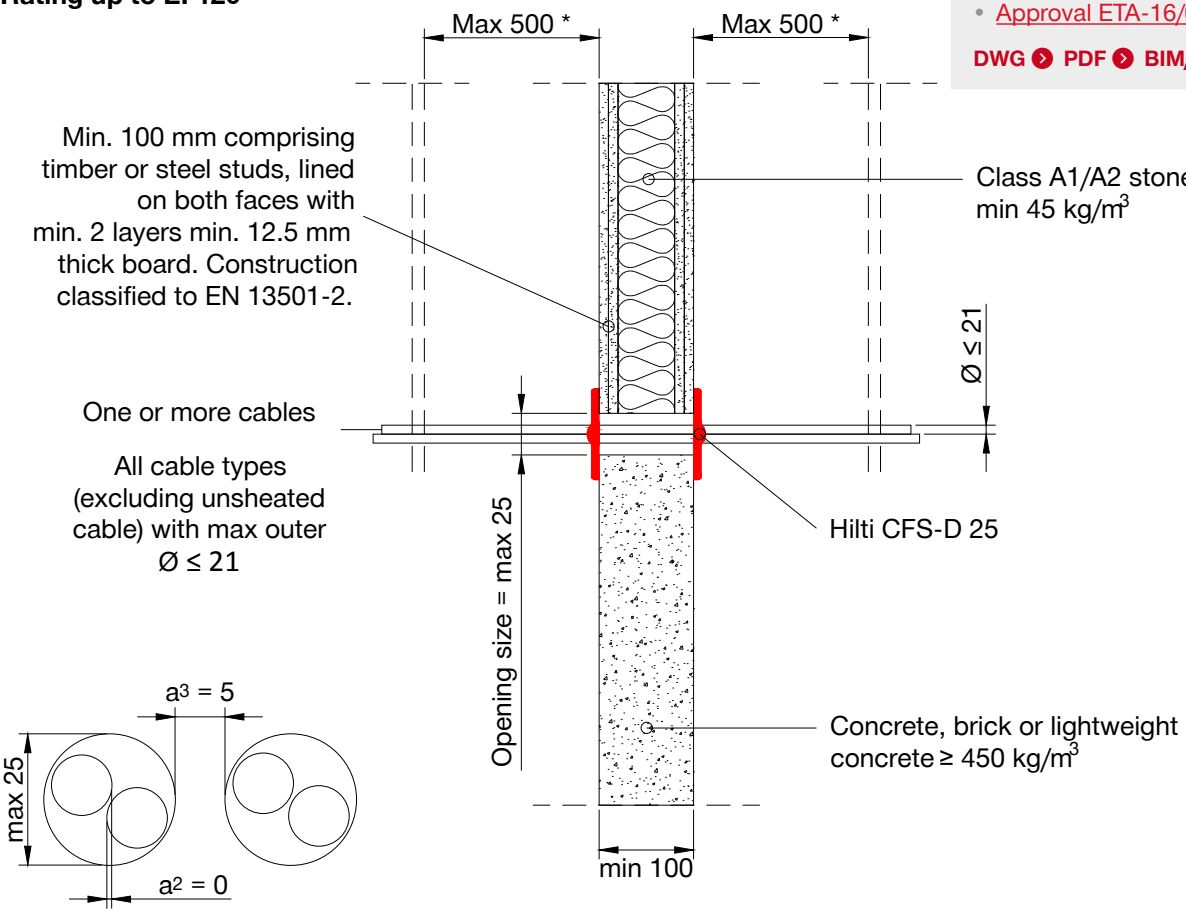
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CABLES WITHIN DRYWALL & RIGID WALL

Fire Rating up to EI 120

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Approval ETA-16/0050

DWG PDF BIM/CAD Web



Max. opening size 625 mm² (25 x 25 mm)

- Sound insulation R_w= 62 dB, according to EN ISO 717-1
- First support and ancillary products should be capable of achieving the same fire performance as the seal and supporting structure.

All cable types currently and commonly used in building practice in Europe (e.g. power, control, signal, telecommunication, data, optical fibre cables

All sheathed cables:		**Classification**
Multi-conductor cables ≤ Ø13 mm	copper content ≤ 7,5 mm² (e.g. 5x1,5 mm²) (cable density ≤ 5,6%)	**EI 120**
Multi-conductor cables Ø ≤ 19 mm	copper content: ≤ 40 mm² (e.g. 4x10 mm²; 5x8 mm²); 10x4 mm² or information cables (20x2x0,8 mm²) (cable density ≤ 14%)	**EI 90**
Single-conductor cables Ø ≤ 14 mm	copper content: ≤ 35 mm² (e.g. 1x35 mm²); (cable density ≤ 23%)	**EI 90**
Cables Ø ≤ 21 mm		**EI 60 E 90**

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2. The product and application has been assessed as a minimum to the BS 476 standard. It may have additional European and worldwide testing. Please contact Hilti for further information.
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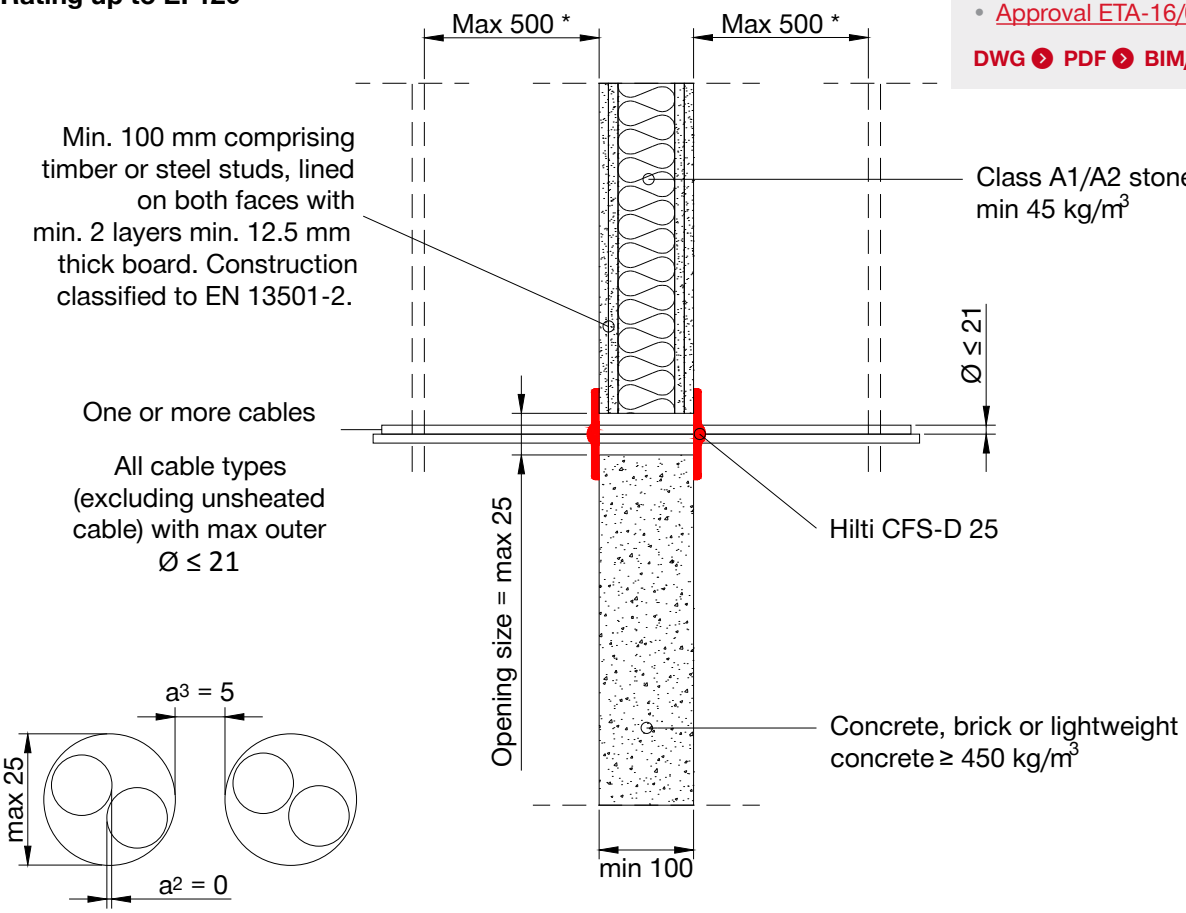
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Fire Rating up to EI 120

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Single-conductor cables Ø ≤ 14 mm	copper content: ≤ 35 mm² (e.g. 1x35 mm²); (cable density ≤ 23%)	**EI 90**
Cables Ø ≤ 21 mm		**EI 60 E 90**

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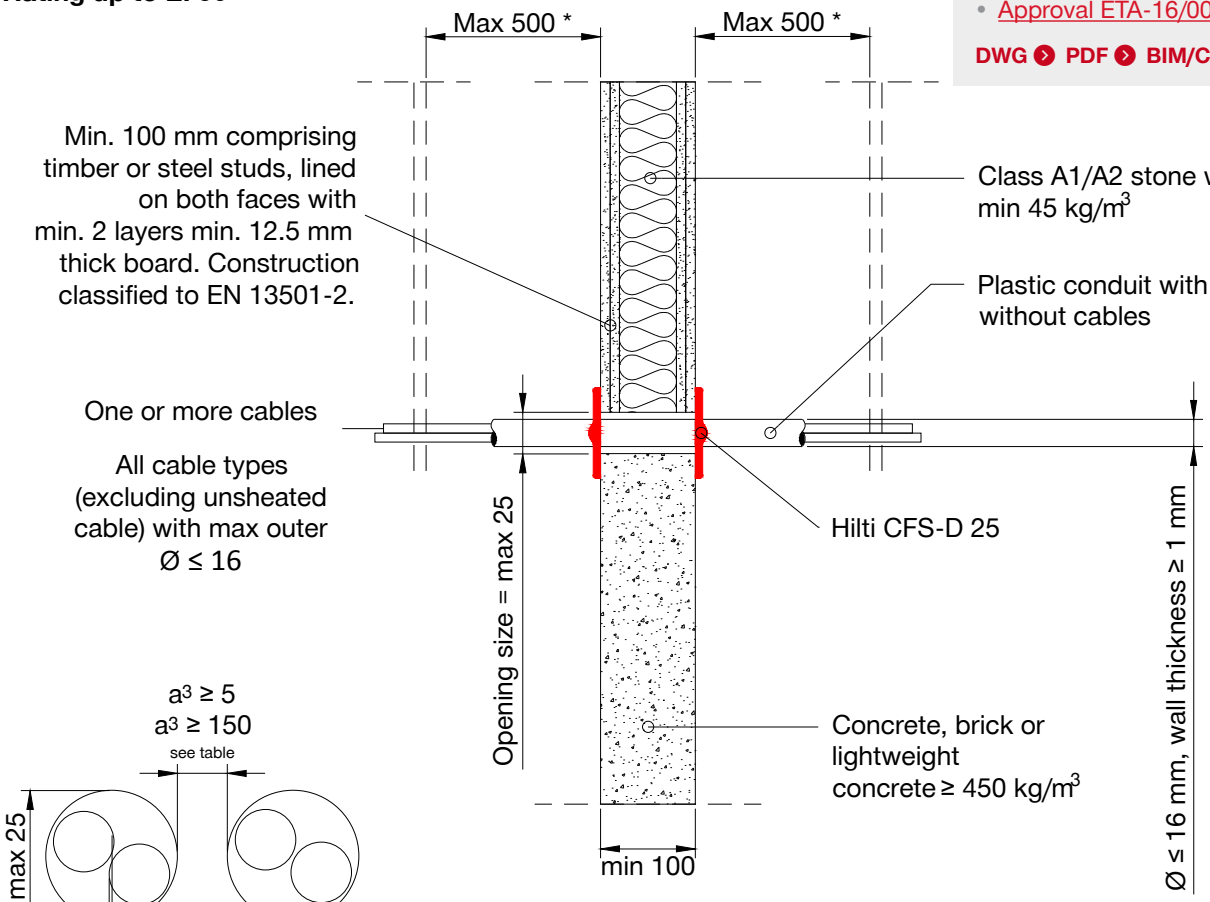
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PLASTIC CONDUITS WITHIN DRYWALL AND RIGID WALL

Fire Rating up to EI 90

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Approval ETA-16/0050

DWG PDF BIM/CAD Web



Max. opening size 625 mm² (25 x 25 mm)

- Sound insulation R_w= 62 dB, according to EN ISO 717-1
- First support and ancillary products should be capable of achieving the same fire performance as the seal and supporting structure.

Ø ≤ 16 mm, wall thickness ≥ 1 mm	Distance of nerbay penetrations [a³]	**Classification**
Plastic conduits and plastic tubes	≥ 5 mm	**EI 60 C/U E 90 C/U**
Plastic conduits and plastic tubes	≥ 150 mm	**EI 90 C/U**

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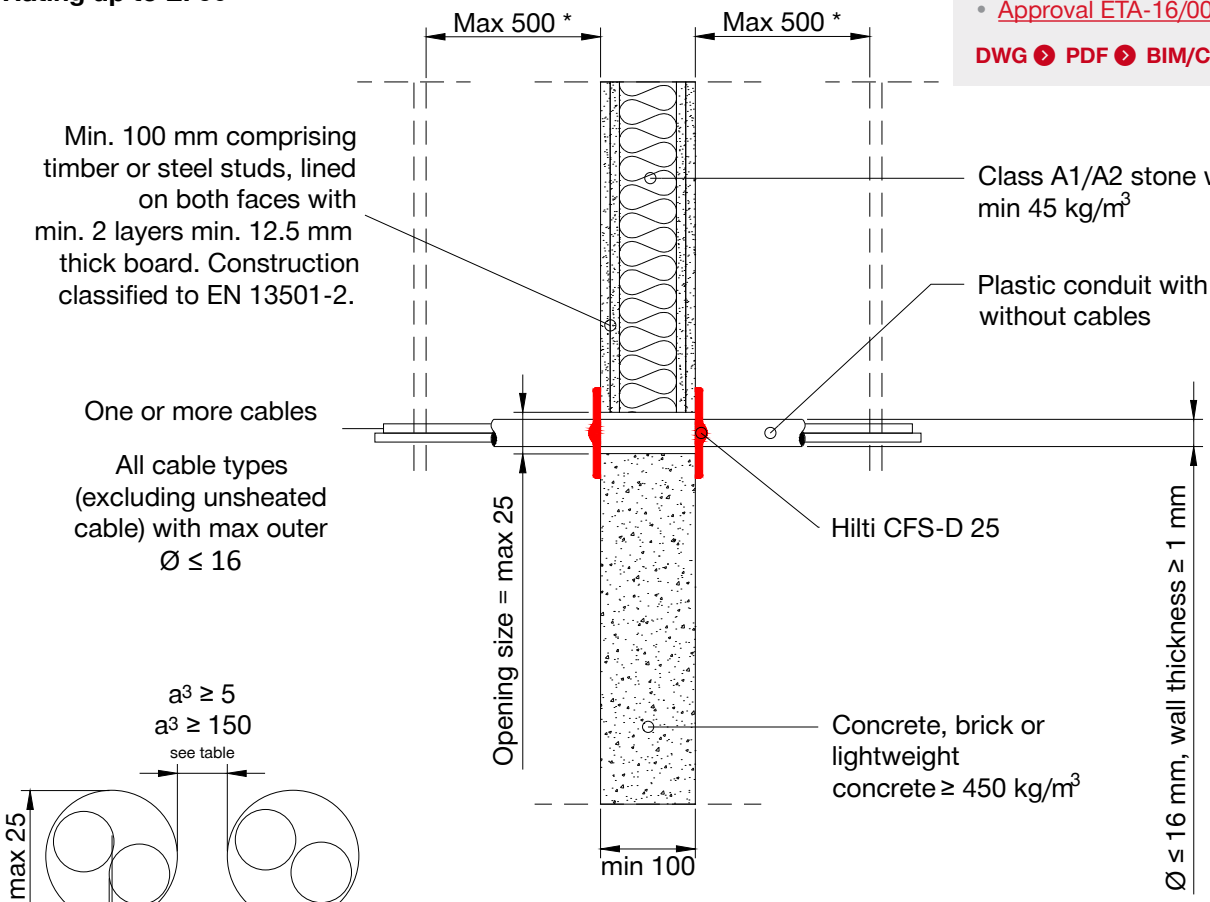
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PLASTIC CONDUITS WITHIN DRYWALL AND RIGID WALL

Fire Rating up to EI 90

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Approval ETA-16/0050

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Max. opening size 625 mm² (25 x 25 mm)

- Sound insulation R_w= 62 dB, according to EN ISO 717-1
- First support and ancillary products should be capable of achieving the same fire performance as the seal and supporting structure.

Ø ≤ 16 mm, wall thickness ≥ 1 mm	Distance of nerbay penetrations [a³]	**Classification**
Plastic conduits and plastic tubes	≥ 5 mm	**EI 60 C/U E 90 C/U**
Plastic conduits and plastic tubes	≥ 150 mm	**EI 90 C/U**

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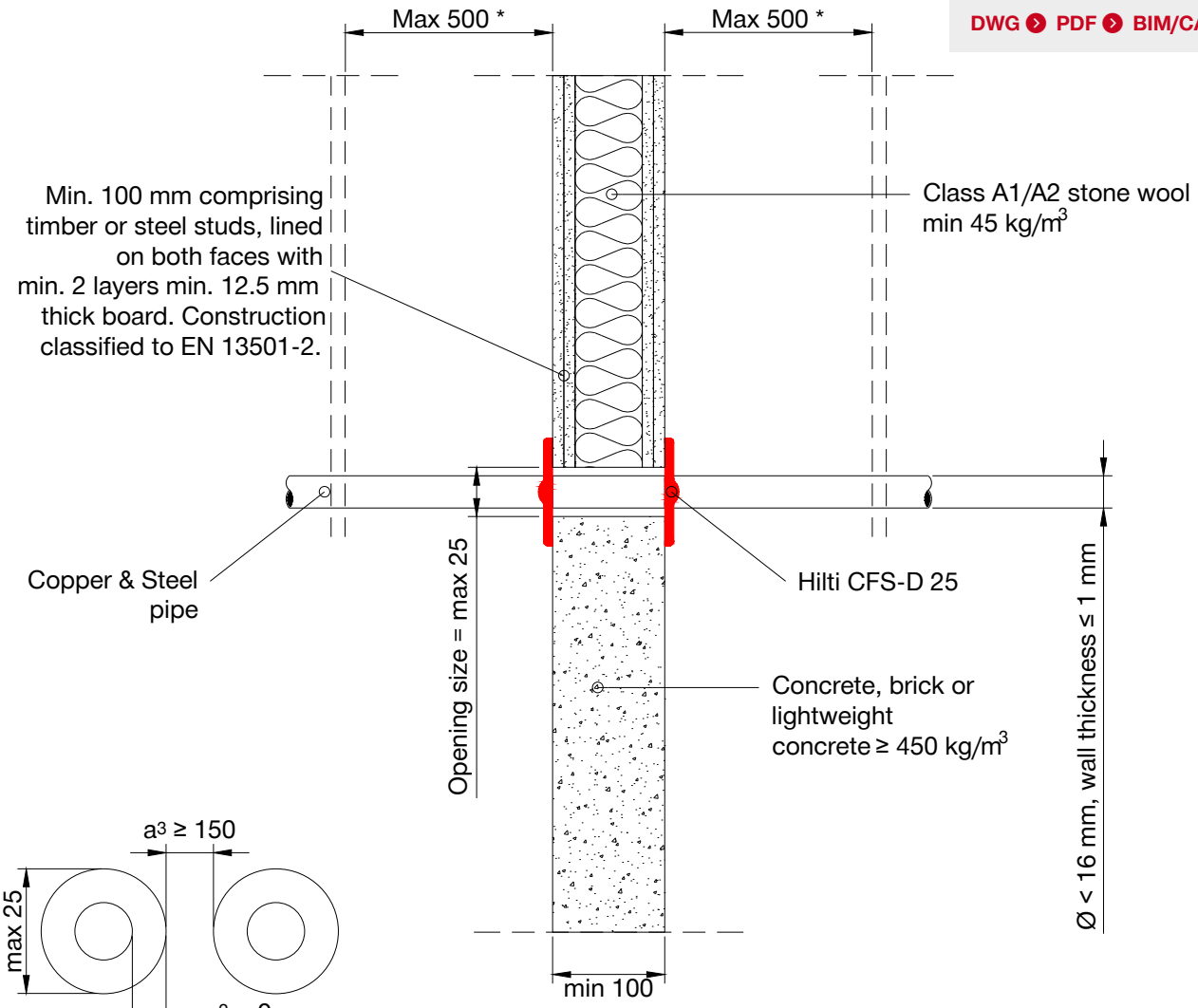
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COPPER & STEEL PIPES WITHIN DRYWALL & RIGID WALL

Fire Rating up to EI 60

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Approval ETA-16/0050

DWG PDF BIM/CAD Web



Max. opening size 625 mm² (25 x 25 mm)

- Sound insulation R_w= 62 dB, according to EN ISO 717-1
- First support and ancillary products should be capable of achieving the same fire performance as the seal and supporting structure.

Construction details see 1.1.2.2
Maximun one metal pipe or conduit may be included per wall opening.

Ø ≤ 16 mm, wall thickness ≥ 1 mm	Distance of nerbay penetrations [a³]	**Classification**
Metal pipes and conduits	≥ 150 mm	**EI 60 C/U E 90 C/U**

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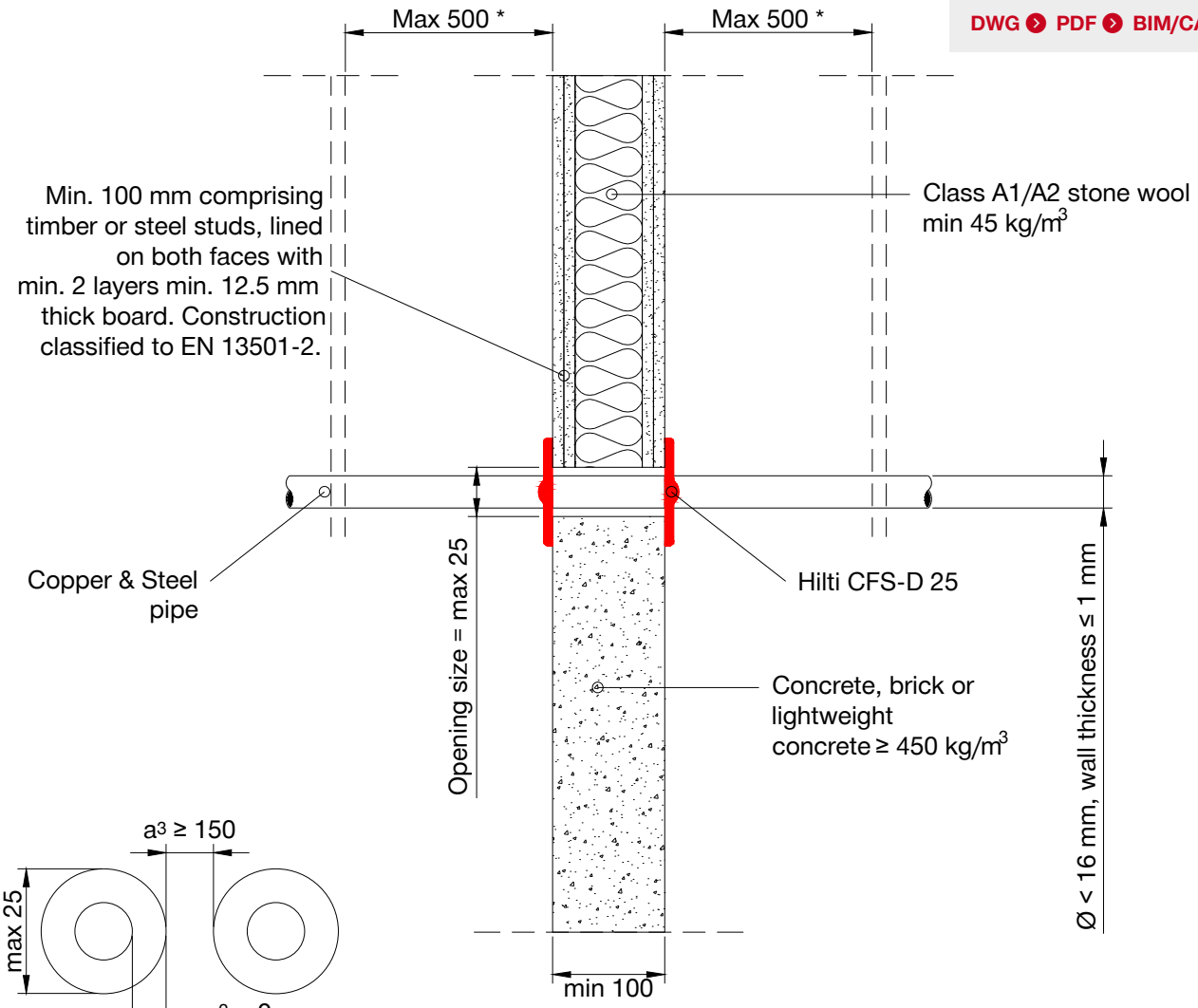
SP-FW/RW-M-01

COPPER & STEEL PIPES WITHIN DRYWALL & RIGID WALL

Fire Rating up to EI 60

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Approval ETA-16/0050

DWG PDF BIM/CAD Web



Max. opening size 625 mm² (25 x 25 mm)

- Sound insulation R_w= 62 dB, according to EN ISO 717-1
- First support and ancillary products should be capable of achieving the same fire performance as the seal and supporting structure.

Construction details see 1.1.2.2
Maximun one metal pipe or conduit may be included per wall opening.

Ø ≤ 16 mm, wall thickness ≥ 1 mm	Distance of nerbay penetrations [a³]	**Classification**
Metal pipes and conduits	≥ 150 mm	**EI 60 C/U E 90 C/U**

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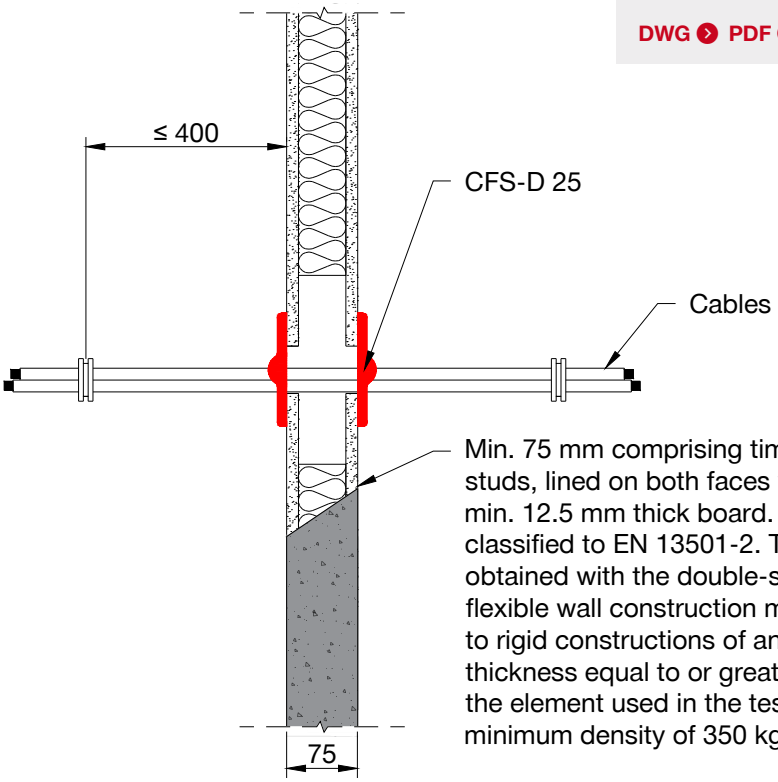
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CABLES BUNDLE IN FLEXIBLE WALL TH. ≥ 75 MM

Fire Rating up to EI 30 – E 60

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Classification report FIRES-CR-259-25-AUPE

DWG PDF BIM/CAD Web



Notes:

- All services are passing through the penetration seals, perpendicular to the supporting construction.
- **Maximum distance to 1st rigid support: ≤ 400 mm**
- Maximum seal size Ø25 mm

Service	Working distances	Classification
All cable types currently and commonly used in building practice in Europe with a maximum outer diameter of 21 mm for coaxial cables and a maximum outer diameter of 21 mm for all other cables, subject to electro-technical rules. Non-sheathed cables (wires) and waveguides are not covered. Opening can be completely filled with cables. Cable carriers cannot pass through the penetration seal.	Distance to seal edge: ≥ 0 mm Cable to cable distance: ≥ 0 mm Distance to other penetration seals: ≥ 100 mm	EI 30 E 60

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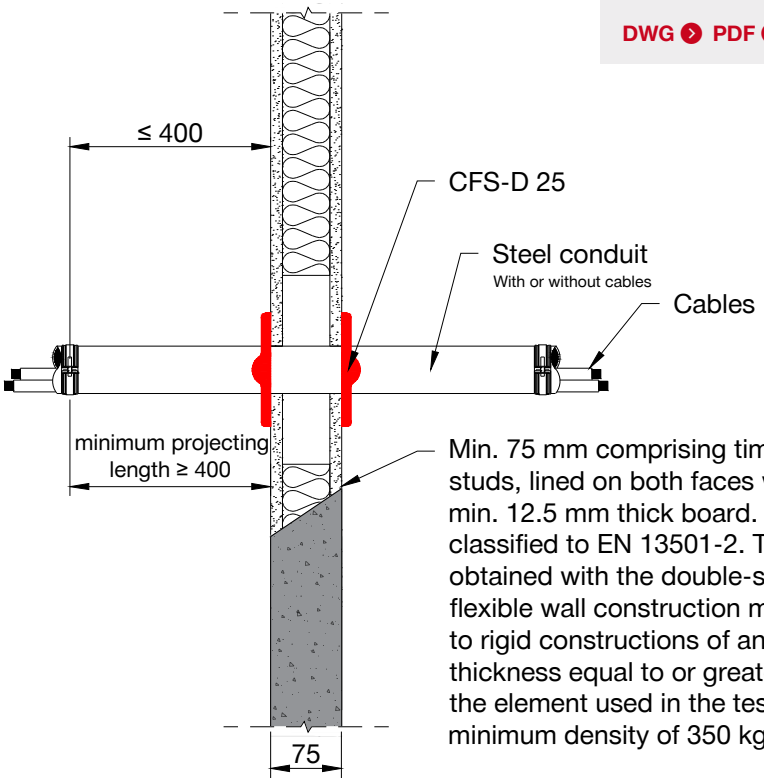
CD-25: SP-FW/RW-E-04

STEEL CONDUITS IN FLEXIBLE WALL TH. ≥ 75 MM

Fire Rating up to EI 45 C/U – E 60 C/U

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Classification report FIRES-CR-259-25-AUPE

DWG PDF BIM/CAD Web



Min. 75 mm comprising timber or steel studs, lined on both faces with 1 layers min. 12.5 mm thick board. Construction classified to EN 13501-2. Test results obtained with the double-sided standard flexible wall construction may be applied to rigid constructions of an overall thickness equal to or greater than that of the element used in the test and a minimum density of 350 kg/m^3.

Notes:

- All services are passing through the penetration seals, perpendicular to the supporting construction.
- **Maximum distance to 1st rigid support: ≤ 400 mm**
- Maximum seal size Ø25 mm

Service	Working distances	Classification
All single rigid steel or stainless-steel conduits up to an outer diameter of 25 mm and wall thickness ≥ 1.6 mm including cables or empty. Conduits of type “projecting” with a seal inside the conduits at one end in practice are covered, minimum projecting length ≥ 400 mm. All sizes of cables currently and commonly used in building practice in Europe including optical fibre cables fitting into the conduit may be used in practice, subject to electrotechnical rules. Coaxial cables may be used up to a diameter fitting the conduit. Non-sheathed cables (wires) are not covered.	Distance to seal edge: ≥ 0 mm Distance to other penetration seals: ≥ 100 mm	EI 45 C/U E 60 C/U

1. The application limits on this detail are for guidance purposes only. For more detailed information based on the full range of available test results please contact the Hilti Technical Advisory Service.
2. The product and application has been assessed as a minimum to the BS 476 standard. It may have additional European and worldwide testing. Please contact Hilti for further information.
3. All installations should be carried out in accordance with Hilti’s installation instructions and by competent & experienced installers using Hilti branded products.
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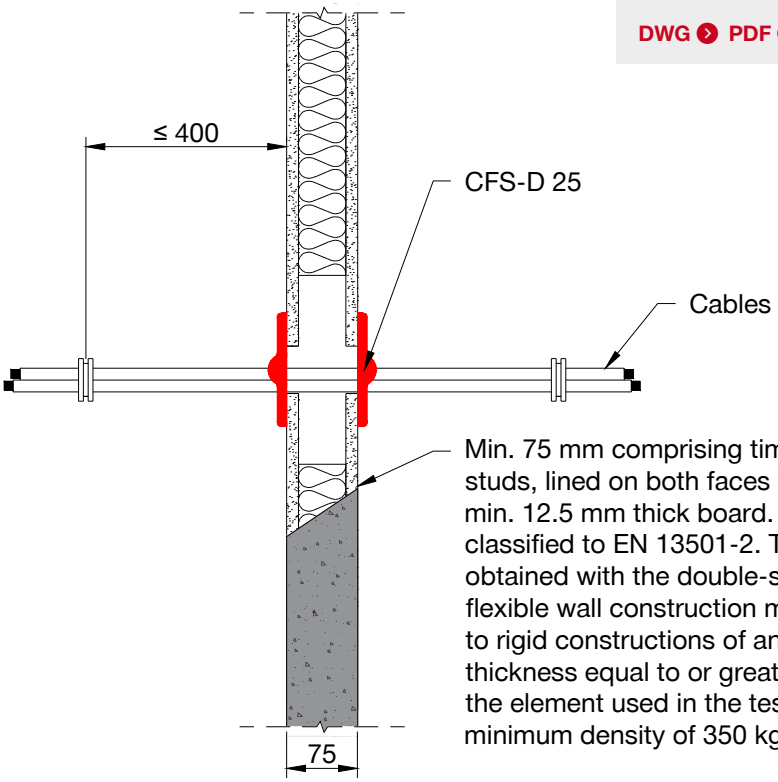
CD-25: SP-FW/RW-E-03

CABLES BUNDLE IN FLEXIBLE WALL TH. ≥ 75 MM

Fire Rating up to EI 30 – E 60

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Classification report FIRES-CR-259-25-AUPE

DWG PDF BIM/CAD Web



Notes:

- All services are passing through the penetration seals, perpendicular to the supporting construction.
- **Maximum distance to 1st rigid support: ≤ 400 mm**
- Maximum seal size Ø25 mm

Service	Working distances	Classification
All cable types currently and commonly used in building practice in Europe with a maximum outer diameter of 21 mm for coaxial cables and a maximum outer diameter of 21 mm for all other cables, subject to electro-technical rules. Non-sheathed cables (wires) and waveguides are not covered. Opening can be completely filled with cables. Cable carriers cannot pass through the penetration seal.	Distance to seal edge: ≥ 0 mm Cable to cable distance: ≥ 0 mm Distance to other penetration seals: ≥ 100 mm	EI 30 E 60

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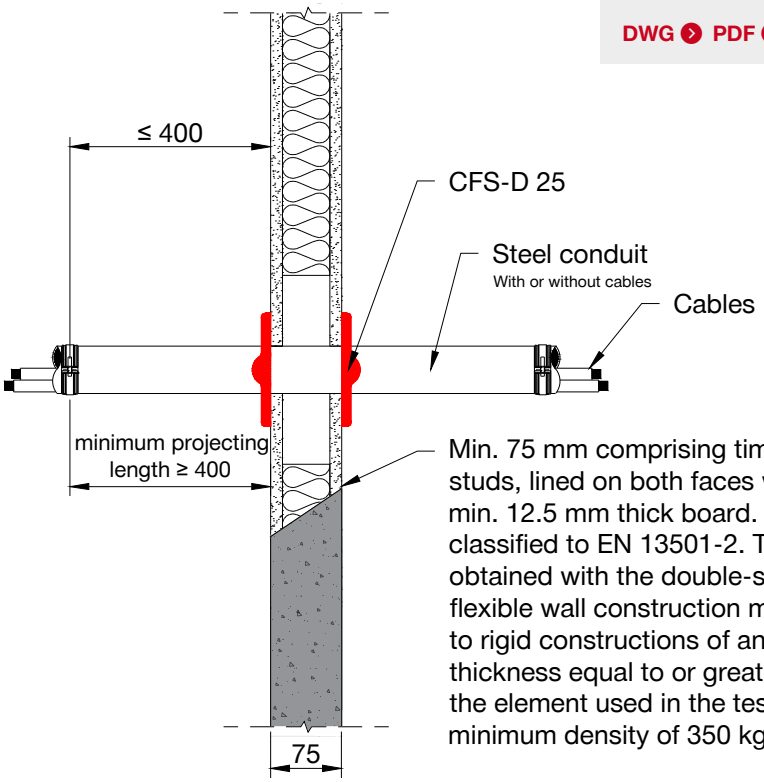
CD-25: SP-FW/RW-E-04

STEEL CONDUITS IN FLEXIBLE WALL TH. ≥ 75 MM

Fire Rating up to EI 45 C/U – E 60 C/U

Information
- Not to scale
- All units are in millimetres
- Tested according EN 1366-3
- Classification report FIRES-CR-259-25-AUPE

DWG PDF BIM/CAD Web



Min. 75 mm comprising timber or steel studs, lined on both faces with 1 layers min. 12.5 mm thick board. Construction classified to EN 13501-2. Test results obtained with the double-sided standard flexible wall construction may be applied to rigid constructions of an overall thickness equal to or greater than that of the element used in the test and a minimum density of 350 kg/m^3.

Notes:

- All services are passing through the penetration seals, perpendicular to the supporting construction.
- **Maximum distance to 1st rigid support: ≤ 400 mm**
- Maximum seal size Ø25 mm

Service	Working distances	Classification
All single rigid steel or stainless-steel conduits up to an outer diameter of 25 mm and wall thickness ≥ 1.6 mm including cables or empty. Conduits of type “projecting” with a seal inside the conduits at one end in practice are covered, minimum projecting length ≥ 400 mm. All sizes of cables currently and commonly used in building practice in Europe including optical fibre cables fitting into the conduit may be used in practice, subject to electrotechnical rules. Coaxial cables may be used up to a diameter fitting the conduit. Non-sheathed cables (wires) are not covered.	Distance to seal edge: ≥ 0 mm Distance to other penetration seals: ≥ 100 mm	EI 45 C/U E 60 C/U

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CHANGE LOG

Date	Description
8/12/2025	Details added: CD-25: SP-FW/RW-E-04 and CD-25: SP-FW/RW-E-03
28/04/2026	Correction of max. cable diameter on detail CD-25: SP-FW/RW-E-02 from 19 mm to 16 mm

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