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European Technical Assessment ETA-21/0554 of 2021/06/16

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	Bostik FP 350 Graphite Plate
Product family to which the above construction product belongs:	Fire Stopping and Sealing Product:Penetration Seals
Manufacturer:	Bostik B.V. Denariusstraat 11 4903 RC Oosterhout The Netherlands
Manufacturing plant:	A/003
This European Technical Assessment contains:	27 pages including 1 annex which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 350454-00-1104
This version replaces:	-

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Table of Contents

I.	SPE	CIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT	4
	1 .	Technical description of the product	4
2		Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): EAD 350454-00-1104	
3	3	Performance of the product and references to the methods used for its assessment	6
4		ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (HEREINAFTER AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE	
ŗ	5 .	Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD	7
ANI	NEX A -	– Resistance to Fire Classification – Bostik FP 350 Graphite Plate	8
/	4.1	Flexible wall constructions with wall thickness of minimum 75 mm	8
	A.1.	Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes back to back.	8
	A.1.	2 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes side by side, with one fitted each face.	
,	۹.2	Flexible wall constructions with wall thickness of minimum 100 mm	10
	A.2.	Cable penetration seal with 3.8 mm thick Bostik FP 350 Graphite Plate in socket box	10
	A.2.	2 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes back to back	11
	A.2.	Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes back to back	12
	A.2.4	4 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes side by side of stud	13
	A.2.	5 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	14
	A.2.	6 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	15
	A.2.	7 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	16
	A.2.	8 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	17
	A.2.	2 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	19
	A.2.	10 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	20
	A.2.	11 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	21
	A.2.	12 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	22
	A.2.	13 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	23
	A.2.	14 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box	24
	A.2.	15 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in Multibox	25
	A.2.	16 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in Multibox	26
	A.2.	17 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in Multibox	27

I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 <u>Technical description of the product</u>

- 1) Bostik FP 350 Graphite Plate is a preformed, self-adhesive intumescent sheet used to reinstate the fire resistance performance of wall constructions where they have been provided with apertures for the penetration of cables into socket boxes, on both sides or one side of the wall.
- 2) The Bostik FP 350 Graphite Plate is supplied pre-cut to size with a peel off strip to one face to protect the adhesive layer. The Bostik FP 350 Graphite Plate is installed by removing the peelable strip and placing the pad to the back face, within the socket box.
- 3) The applicant has submitted a written declaration that Bostik FP 350 Graphite Plate does not contain substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the EGDS - taking into account the installation conditions of the construction product and the release scenarios resulting from there.

In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

2 <u>Specification of the intended uses of the product in accordance with the applicable European Assessment</u> <u>Document (Hereinafter EAD): EAD 350454-00-1104</u>

Detailed information and data is given in Annex A.

- 1) The intended use of Bostik FP 350 Graphite Plate is to reinstate the fire resistance performance of flexible wall constructions where they are penetrated by cables in socket boxes.
- 2) The specific elements of construction that the system Bostik FP 350 Graphite Plate may be used to provide a penetration seal in, are as follows:
 - a. Flexible walls: The wall must have a minimum thickness of 75 mm and comprise steel studs lined on both faces with minimum 1 layer of 12.5 mm thick board.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

Bostik FP Fire Protection Systems which involve services penetrating both sides of a flexible wall may also be used in the situation where the services penetrates one side of the wall only and the remaining side of the wall is not penetrated at the same point (i.e. the services continues on the inside of the wall). All fire integrity and thermal insulation ratings for such single-sided penetrations remain the same as for the equivalent double-sided penetration.

- 3) The System Bostik FP 350 Graphite Plate may be used to provide a penetration seal with cables in socket boxes (for details see Annex A).
- 4) The system Bostik FP 350 Graphite Plate may be used to seal apertures in the separating element up to 142 mm wide by 83 mm high (aperture containing socket box). The aperture around the socket box should be as tightly fitting as possible and gaps filled with plaster filler.
- 5) The provisions made in this European Technical Assessment are based on an assumed working life of the Bostik FP 350 Graphite Plate of 50 years, provided that the conditions laid down in the product datasheet for the packaging/transport/ storage/installation/use/repair are met. The indications given on the 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 choosing the right products in relation to the expected economically reasonable working life of the works.
- 6) Type Z₂: Intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV.

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

Product-type: Intumescent sheet	Intended use: Penetration Seal				
Essential characteristic	Product performance				
BWR 2 Safety i	in case of fire				
Reaction to fire	No performance assessed				
Resistance to fire	Annex A				
BWR 3 Hygiene, health and environment					
Air permeability	No performance assessed				
Water permeability	No performance assessed				
Content, emission and/or release of dangerous substances	Use category: IA1, S/W2 Declaration of manufacturer				
BWR 4 Safe	ety in use				
Mechanical resistance and stability	No performance assessed				
Resistance to impact/movement	No performance assessed				
Adhesion	No performance assessed				
Durability	Z ₂				
BWR 5 Protectio	n against noise				
Airborne sound insulation	No performance assessed				
BWR 6 Energy econom	y and heat retention				
Thermal properties	No performance assessed				
Water vapour permeability	No performance assessed				

4 ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (HEREINAFTER AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE

According to the decision 1999/454/EC – Commission Decision of date 22nd June 1999 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, (see https://eur-lex.europa.eu/oj/direct-access.html) of the European Commission¹, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table(s) applies (apply).

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire stopping and Fire Sealing Products	For fire compartmentation and/or fire protection or fire performance	Any	1

5 <u>Technical details necessary for the implementation of the AVCP system, as provided for in the applicable</u> <u>EAD</u>

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark A/S prior to CE marking

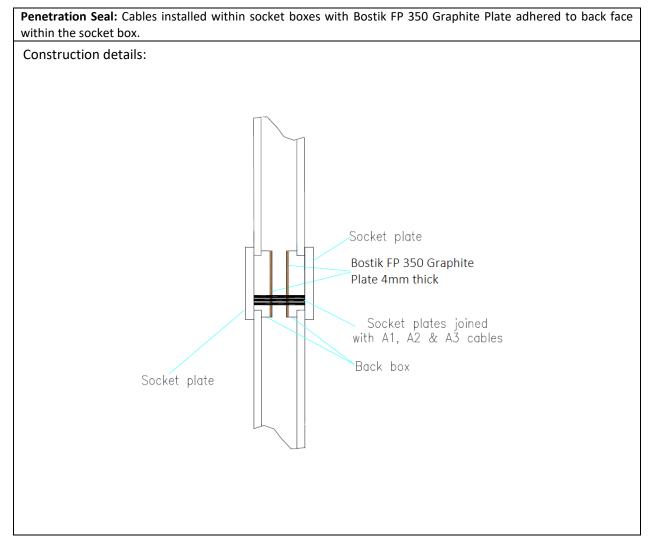
Issued in Copenhagen on 2021-06-16 by Thomas Bruun

Managing Director, ETA-Danmark

¹ Official Journal of the European Communities L178/52 of 14/7/1999

ANNEX A – Resistance to Fire Classification – Bostik FP 350 Graphite Plate

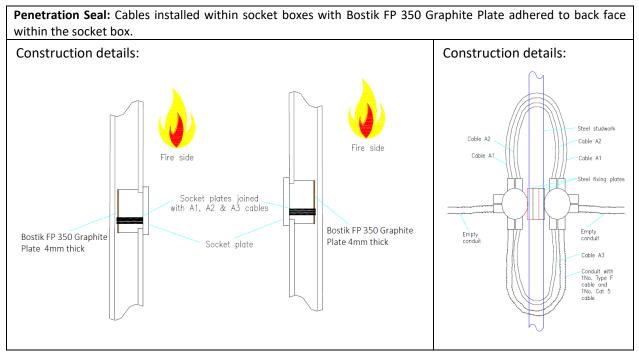
- A.1 Flexible wall constructions with wall thickness of minimum 75 mm
- A.1.1 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes back to back.



A.1.1.1	Double side penetration seal with cables in socket boxes
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Services	Socket box	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
	UK standard double socket	110mm wide x			
Cables up to	box, 145mm wide x 85mm	60mm high x 4mm	Back to back	134 wide	
14mm	high x 35mm deep, each	thick, fitted lining	– 1 fitted to	x 73 High	EI 30
diameter	with up to 25mm hole cut	the back of the	each face		
	to accept the cables	back box			

A.1.2 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes side by side, with one fitted each face.

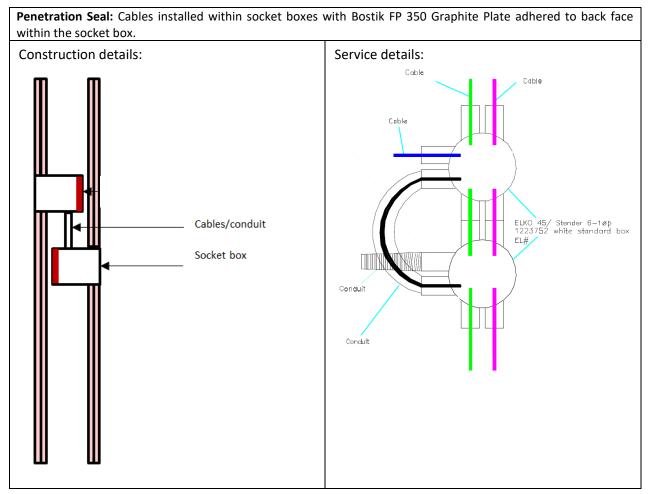


A.1.2.1 Double side penetration seal with cables in socket boxes

Services	Socket box	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
Cables up to 14mm diameter Plastic conduits with or without cables	Elko 3012 S57/100 1223789 red standard box	45mm wide x 45mm high x 4mm thick, fitted lining the back of the socket box	Adjacent each side of stud – 1 fitted to each face	74mm Ø	E 60, El 45

A.2 Flexible wall constructions with wall thickness of minimum 100 mm

A.2.1 Cable penetration seal with 3.8 mm thick Bostik FP 350 Graphite Plate in socket box



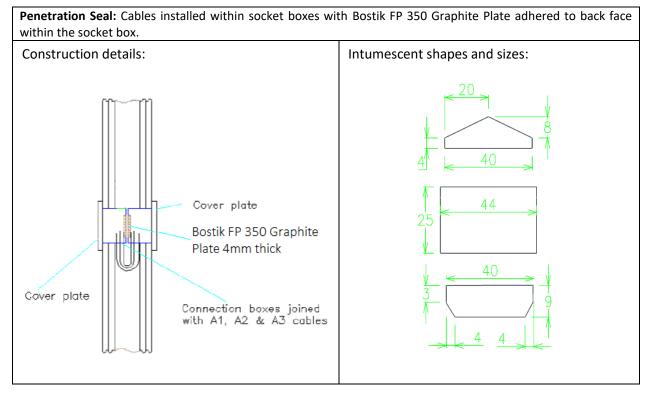
A.2.1.1 Double side penetration seal with cables in socket boxes

Services	Socket box*	Bostik FP 350 Graphite Plate mm	Aperture mm	Classification
Cables up to 14 mm diameter	ELKO 45/Stender 6-1øp	59 Ø x 3.8		
Plastic conduit 22 mm diameter, with or without cables	1223752 white standard box EL # Or ELKO 3012 S57/100 1223789 #	Or 46 x 46 x 3.8	73-74 Ø^	EI 60

*Fixed directly to studs or with steel plate between studs.

^Aperture shall be as tightly fitting as possible and infilled with building plaster.

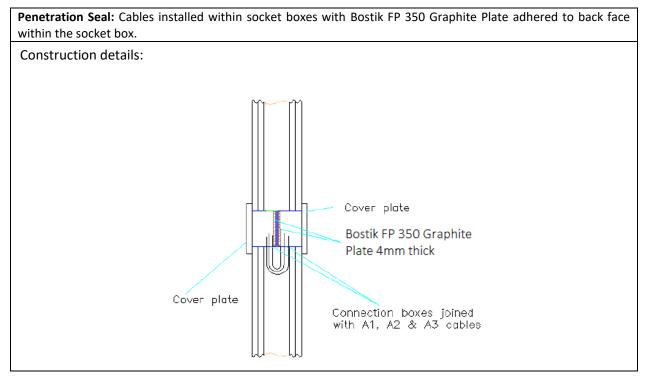
A.2.2 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes back to back



A.2.2.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
	Schneider Electric Ref. IMT	3no. Bostik FP 350	Back to back		
Cables up to	36316 connection box,	Graphite Plate,	 – 1 fitted to 		
14mm	100mm Ø cover plate with	each fitted lining	each face,	70mm Ø	E 90, EI 60
diameter	70mm Ø x 48mm deep	the back of the	fixed to the		
	back box	socket box	stud		

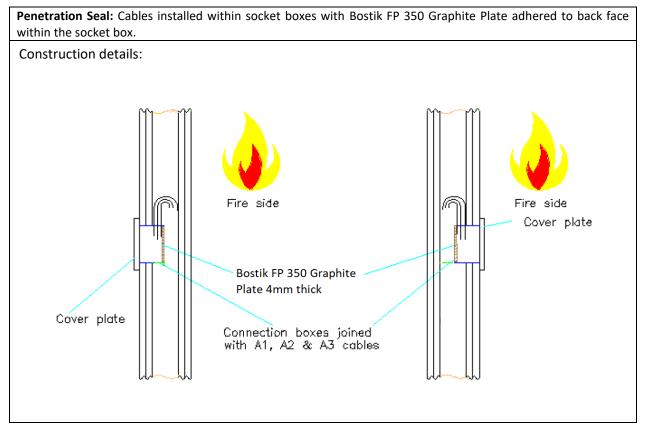
A.2.3 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes back to back



A.2.3.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
	Rutab 8 connection/junction box, 100mm Ø cover plate with 80mm Ø x 47mm deep back box	57mm wide by 74mm high, fitted lining the back of the back box	Back to back – 1 fitted to each face	80mm Ø	EI 90
	Schneider Electric IMT 36190 connection box, 100mm Ø cover plate with 52mm Ø x 44mm deep back box	30mm wide by 30mm high, fitted lining the back of the back box		52mm Ø	El 120
Cables up to 14mm diameter	Schneider Electric TED26 IMT 36263 connection box, with 83mm Ø x 47mm deep back box	66mm wide by 52mm high, fitted lining the back of the back box		83mm Ø	EI 90
	Schneider Electric TED A26 IMT 36256 connection box, with 72mm Ø x 37mm deep back box	46mm wide by 46mm high, fitted lining the back of the back box		72mm Ø	EI 90
	Elko 4038 1225422 connection box, with 50mm Ø x 40mm deep back box	30mm wide by 30mm high, fitted lining the back of the back box		50mm Ø	EI 90

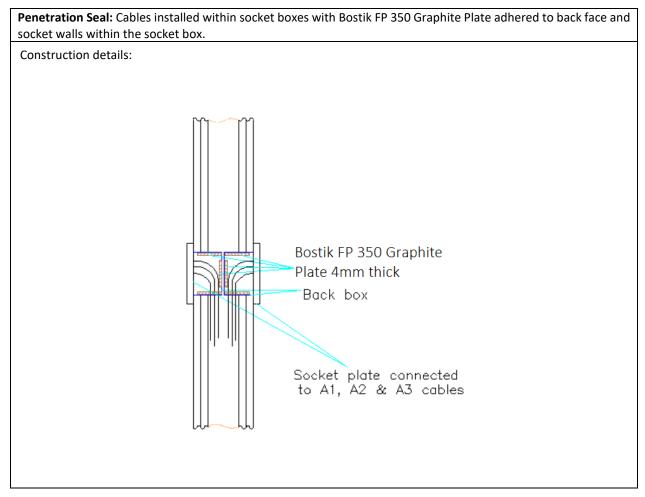
A.2.4 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket boxes side by side of stud



A.2.4.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
	ABB AU60.1 Ref.	44mm wide x	Adjacent		
Cables up to	2TKA001744G1/122008	44mm high x 4mm	each side of		
14mm	connection box, 100mm Ø	thick, fitted lining	stud – 1	70mm Ø	EI 60
diameter	cover plate with 70mm Ø x	the back of the	fitted to each		
	55mm deep back box	socket box	face		



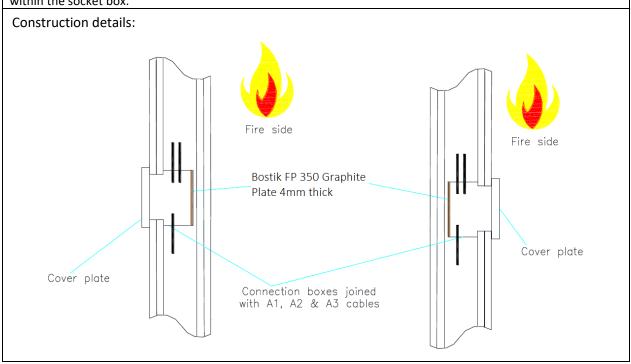


A.2.5.1 Double side penetration seal with cables in socket boxes

Services	Socket box	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
Cables up to 14mm	Fuga Forfradåse 1M socket ref: 504DA020	4no. 25 mm x 15 mm fitted on socket walls and 1no. 25 mm x 7 mm fitted lining the back of the socket	Back to back – 1 fitted to	52mm Ø	EI 120
diameter	Fuga Air Forfradåse 1M socket ref: 504D30100	4no. 25 mm x 15 mm fitted on socket walls and 1no. 20 mm x 20 mm fitted lining the back of the socket	each face	52mm Ø	EI 90

A.2.6 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box

Penetration Seal: Cables installed within socket boxes with Bostik FP 350 Graphite Plate adhered to back face within the socket box.



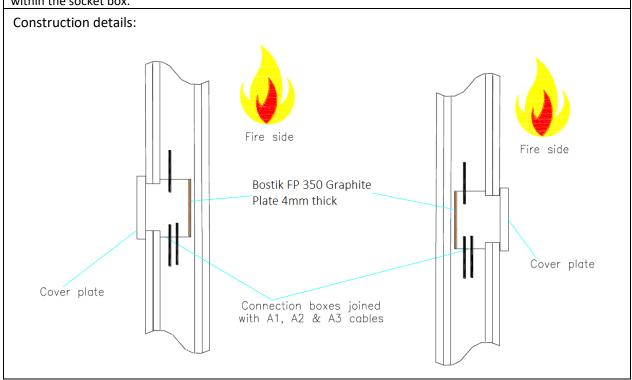
A.2.6.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
	Schneider Electric IMT 36193 connection box, 70mm wide x 70mm high x 70mm deep	45mm wide x 45mm high, fitted lining the back of the inside of the	Adjacent each side of stud – 1 fitted to each face		EI 45
	Schneider Electric IMT 36200 connection box, 70mm wide x 70mm high x 70mm deep			70mm Ø 72mm Ø	EI 60
Cables up to	Schneider Electric IMT 36356 connection box, 70mm wide x 70mm high x 58mm deep				EI 60
14mm diameter	Etman ETM337S connection box, 70mm wide x 70mm high x 60mm deep	socket box			EI 45
	Etman ETM001S connection box, 70mm wide x 70mm high x 56mm deep				EI 60
	Etman ETM616S connection box, 90mm wide x 71mm high x 60mm deep	65mm wide x 45mm high, fitted lining the back of the inside of the socket box		92mm wide x 72mm high oval diameter	EI 45

[^]Fixed to studs with steel plate

A.2.7 Cable penetration seal with 4.0 mm thick Bostik FP 350 Graphite Plate in socket box

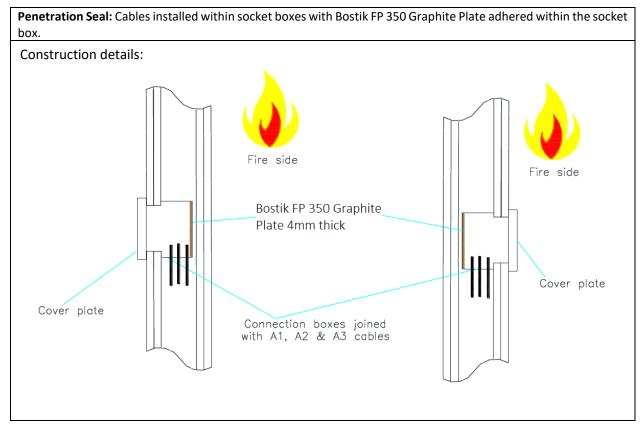
Penetration Seal: Cables installed within socket boxes with Bostik FP 350 Graphite Plate adhered to back face within the socket box.



A.2.7.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
	Schneider Electric IMT 36192 connection box, 70mm wide x 70mm high x 58mm deep	45mm wide x 45mm high, fitted lining the back of the inside of the socket box		70mm Ø	EI 60
	Schneider Electric IMT2no. 55mm wide x36205 connection box,45mm high, (1no.70mm wide x 140mm highpiece fitted eitherx 57mm deepside of separator,		140mm x 70mm (with	EI 60	
Cables up to 14mm	Elko 3011 connection box, 70mm wide x 140mm high x 57mm deep	lining the back of the inside of the socket box)	Adjacent each side of stud – 1 fitted	rounded edges)	EI 60
diameter	Etman ETM611S Flush mounting Big Wall box # 24mm, 71mm wide x 142mm high x 70mm deep	2no. 40mm wide x 110mm high, fitted lining the back of the inside of the socket box	to each face	72mm Ø	E 60, El 45
	Etman ETM614S connection box, 70mm wide x 90mm high x 60mm deep	45mm wide x 65mm high, fitted lining the back of the inside of the socket box		72mm wide x 92mm high oval diameter	EI 45





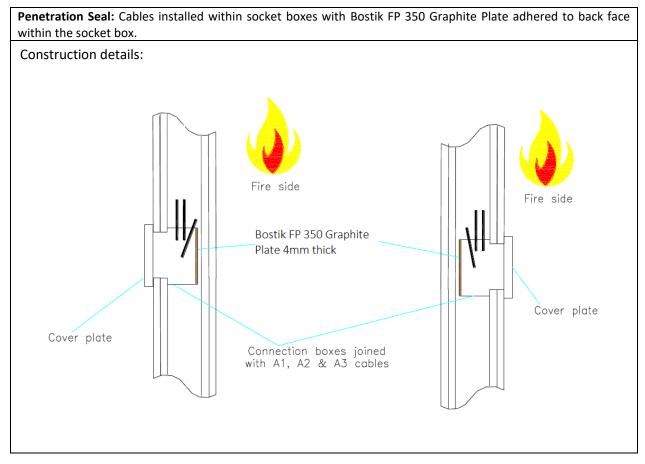
A.2.8.1 Double side penetration seal with cables in socket boxes

Services	Socket box	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
	Schneider Electric 55/94 2 IØp connection box, 70mm wide x 140mm high x 57mm deep^	2no. 55mm wide x 45mm high, (1no. piece fitted either side of separator, lining the back of the inside of the socket box)	Adjacent each side of stud – 1 fitted to each face	140mm x 70mm (with rounded edges)	EI 60
Cables up to 14mm diameter	Schneider Electric IMT 36030 connection box, 80mm wide x 144mm high x 55mm deep	8no. 20mm wide x 35mm high pieces,	Adjacent – one fitted on each face -	140mm x 75mm	EI 30
	Elko 4545 connection sides of the inside of mounted on surface		(with rounded edges)	EI 45	

A.2.8.2

Services	Socket box	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
	Etman ETM750S connection box, 71mm wide x 71mm high x 48mm deep^	50mm wide x 40mm high, fitted lining the	e	62mm Ø	EI 60
Cables up to	Etman ETM751S connection box, 71mm wide x 71mm high x 48mm deep^	back of the inside of the socket box		62mm Ø	EI 60
14mm diameter	Etman ETM395S junction box, 83mm wide x 94mm high x 60mm deep^	box, 83mmhigh, fitted lining the back of the inside ofeach face	fitted to	83mm Ø	EI 60
	Etman ETM394S junction box, 83mm wide x 94mm high x 60mm deep^	2no. 50mm wide x 70mm high, fitted lining the back of the inside of the socket box		83mm Ø	EI 60

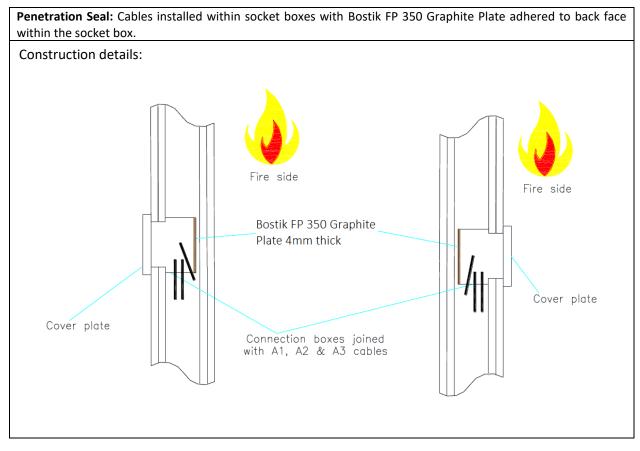




A.2.9.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
Cables up to 14mm	Elko 4040 connection box, 70mm wide x 70mm high x 70mm deep	45mm wide x 45mm high, fitted lining the back of the inside of the socket box	Adjacent each side of stud – 1 fitted to each face	70mm Ø	EI 60
diameter	Etman ETM338S connection box, 70mm wide x 70mm high x 60mm deep	50mm wide x 45mm high, fitted lining the back of the inside of the socket box	Adjacent each side of stud – 1 fitted to each face	72mm Ø	EI 45

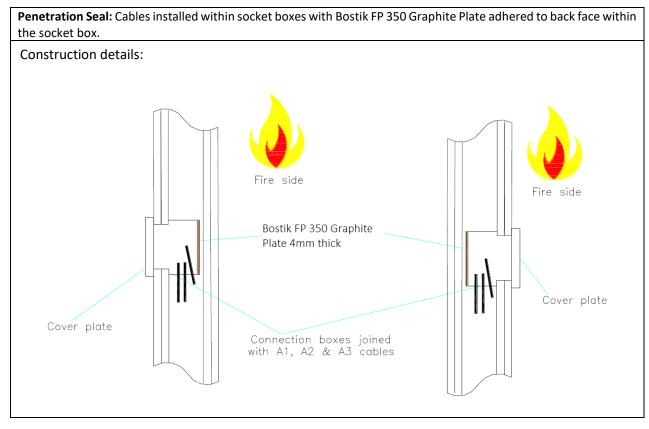




A.2.10.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
Cables up to 14mm diameter	Schneider Electric IMT 36029 connection box, 70mm wide x 90mm high x 57mm deep	44mm wide x 60mm high, fitted lining the back of the inside of the socket box	Adjacent each side of stud – 1 fitted to each face	91mm x 71mm (with rounded edges)	EI 60
Cables up to 14mm diameter	Schneider Electric IMT 36006 connection box, 70mm wide x 70mm high x 70mm deep	45mm wide x 45mm high, fitted lining the back of the inside of the socket box	Adjacent each side of stud – 1 fitted to each face	70mm Ø	EI 60

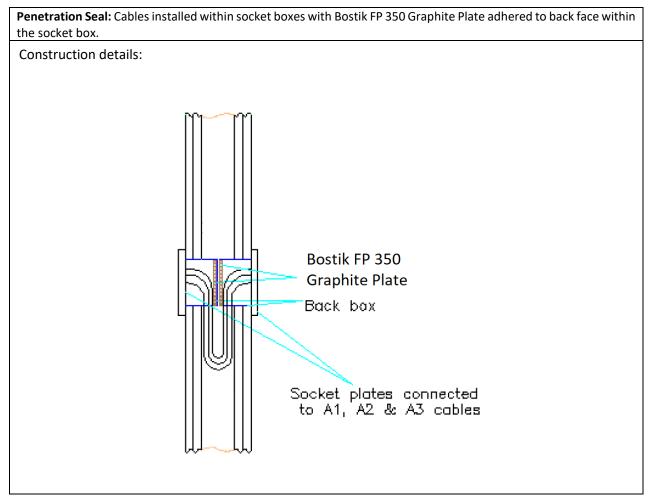




A.2.11.1 Double side penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
	Schneider Electric IMT 36016 connection box, 70mm wide x 70mm high x 58mm deep	45mm wide x 45mm high, fitted lining the back of the inside of the socket box		70mm Ø	EI 60
Cables up to 14mm diameter	Elko 4045 connection box, 70mm wide x 90mm high x 57mm deep	45mm wide x 60mm high, fitted lining the back of the inside of the socket box	Adjacent each side of stud – 1 fitted to each face	91mm x 71mm (with rounded edges)	EI 60
	Etman ETM663S connection box, 70mm wide x 142mm high x 45mm deep	40mm wide x 110mm high, fitted lining the back of the inside of the socket box		72mm wide x 92mm high oval diameter	EI 60

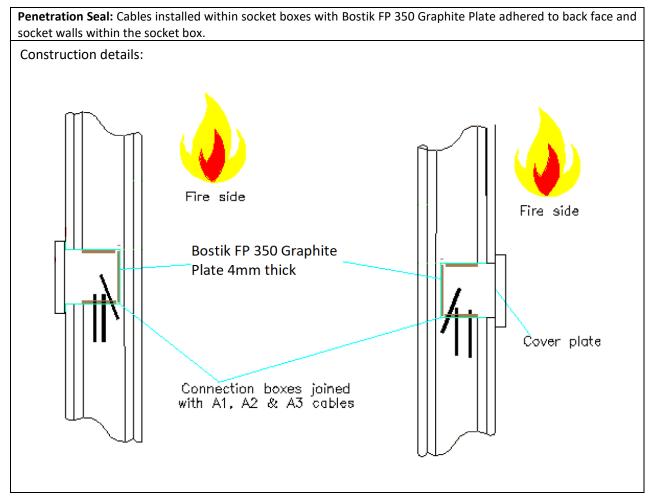




A.2.12.1 Double side penetration seal with cables in socket boxes

Services	Socket box	Bostik FP 350 Graphite Plate	Position	Aperture mm	Classification
Cables up to 14mm diameter	Rutab 3 connections junction box "Article No. 1426102"	65mm Ø with 10mm trimmed off 2no. parallel edges	Back to back – 1 fitted to each face	75mm Ø	E 120, El 90

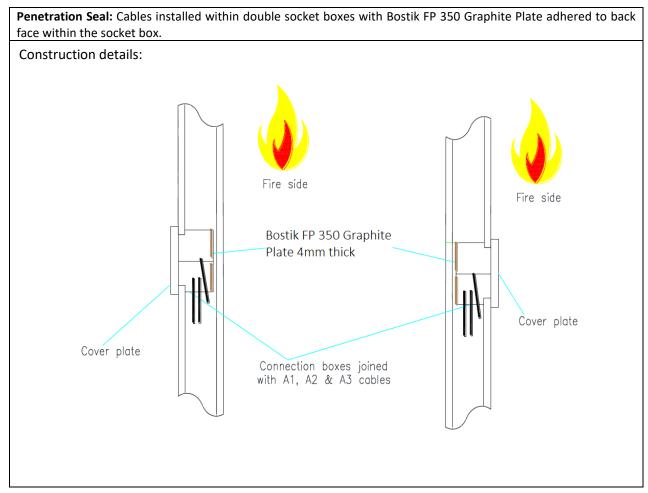




A.2.13.1	Double side penetration seal with cables in socket boxes
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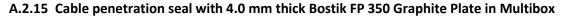
Services	Socket box	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
Cables up to 14mm diameter	Schneider Electric 60/46 connection box, no. 1223281, 70mm wide x 70mm high x 65mm deep	5no. 20mm wide x 50mm high pieces, lining the back and sides of the inside of the socket box	1 fitted to each face (side by side), mounted in the plasterboard - Omm between each socket	71mm x 71mm	E 90, El 45



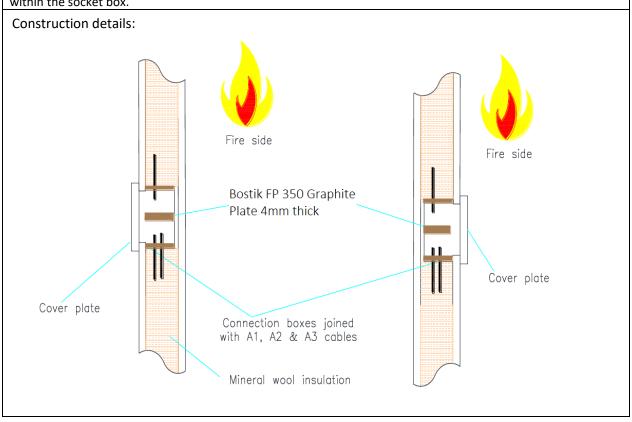


A.2.14.1 Double side, double flush penetration seal with cables in socket boxes

Services	Socket box^	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
Cables up to 14mm diameter	Etman ETM611S double connection box, 72mm wide x 142mm high x 60mm deep	2no. 40mm wide x 50mm high, fitted lining the back of the inside of the socket box	Adjacent each side of stud – 1 fitted to each face	72mm x 142mm	EI 45



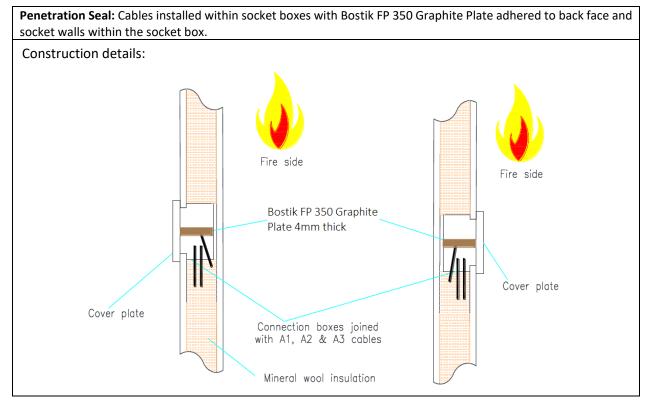
Penetration Seal: Cables installed within socket boxes with Bostik FP 350 Graphite Plate adhered to socket walls within the socket box.



A.2.15.1 Double side penetration seal with cables in Multiboxes

Services	Socket box	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
		4no. 20mm	1 fitted to each		
Cables up to	Etman ETM546S multibox	wide x 40mm	face (side by side),		
Cables up to 14mm	90-degree entries	high, fitted	mounted in the	72mm Ø	E 90, EI 45
diameter	connection box, 70mm	lining the sides	plasterboard -	7211111 <i>W</i>	E 90, EI 49
diameter	wide x 60mm high	of the inside of	0mm between		
		the socket box	each socket		

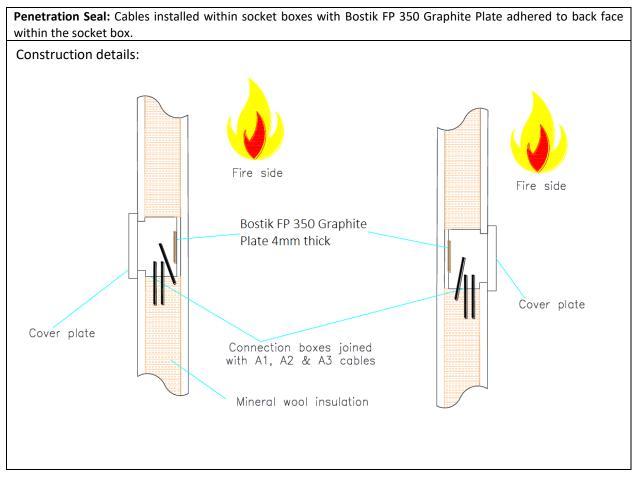




A.2.16.1 Double side penetration seal with cables in Multiboxes

Services	Socket box	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
Cables up to 14mm diameter	Etman ETM220S multibox connection box, 70mm x 60mm deep	3no. 20mm wide x 40mm high, fitted lining the back and sides of the inside of the socket box	1 fitted to each face (side by side), mounted in the plasterboard - Omm between each socket	72mm Ø	EI 60





A.2.17.1 Double side penetration seal with cables in multiboxes

Services	Socket box	Bostik FP 350	Position	Aperture	Classification
		Graphite Plate		mm	
Cables up to 14mm diameter	Etman ETM548S multibox connection box, 90mm x 70mm x 58mm deep	40mm wide x 50mm high, fitted lining the back of the inside of the socket box	1 fitted to each face (side by side), mounted in the plasterboard - Omm between each socket	92mm x 72mm	EI 30