



ETA-Danmark A/S
Göteborg Plads 1
DK-2150 Nordhavn
Tel. +45 72 24 59 00
Internet
www.etadanmark.dk

Authorised and notified according
to Article 29 of the Regulation
(EU)
No 305/2011 of the European
Parliament and of the Council of 9
March 2011

MEMBER OF EOTA



European Technical Assessment ETA-20/1315 of 2021/01/01

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:

Nullifire FS702

Product family to which the above construction product belongs:

Fire Stopping and Sealing Product:
• Linear Joint and Gap Seals

Manufacturer:

Tremco CPG UK Limited
Torrington Avenue
Coventry
CV4 9TJ
United Kingdom

Manufacturing plant:

I/001

This European Technical Assessment contains:

19 pages including 1 annexes 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 350141-00-1106 for Linear joint and gap seals, September 2017

This version replaces:

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

- 1) Nullifire FS702 is a sealant used to form linear gap seals where gaps are present in wall and floor constructions and linear joint seals where wall and floor constructions abut.
- 2) The Nullifire FS702 is supplied in liquid form contained within 310 ml cartridges or 600ml sausages. The sealant is gunned into the aperture in the separating element/elements, to a specified depth using various backing materials, as specified in Annex A.
- 3) The applicant has submitted a written declaration that Nullifire FS702 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 Specification of the intended uses of the product in accordance with the applicable European Assessment Document: EAD 350141-00-1106, September 2017

Detailed information and data is given in Annex A.

- 1) The intended use of Nullifire FS702 is to reinstate the fire resistance performance of gaps in and joints in and between flexible wall and rigid wall constructions, gaps in and joints between rigid floor constructions.
- 2) The specific elements of construction that the system Nullifire FS702 may be used to provide a gap or joint seal in, are as follows:
 - a. Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m³.
 - b. Rigid walls: The wall must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³
 - c. Flexible walls: The wall must have a minimum thickness of 100 mm and comprise steel or wooden studs lined on both faces with a minimum 2 layers of 12.5 mm thick boards.

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

- 3) The System Nullifire FS702 may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex A).
- 4) The maximum permitted joint/gap width for system Nullifire FS702 is 200 mm.
- 5) The maximum movement capability of system Nullifire FS702 is $\leq 7.5\%$ depending upon application.

- 6) The provisions made in this European Technical Assessment are based on an assumed working life of the Nullifire FS702 of 10 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 by 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.
- 7) Type Z₁: intended for use at internal conditions with high humidity, excluding temperatures below 0°C. Includes lower categories i.e. Type Z₂.

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

Product-type: Sealant		Intended use: Linear Joint & Gap Seal
	Essential characteristic	Performance
BWR 2 Safety in case of fire		
	Reaction to fire	Class E
	Resistance to fire	Annex A
BWR 3 Hygiene, health and environment		
	Content, emission and/or release of dangerous substances	Use category: IA1, S/W2 Declaration of manufacturer
	Air permeability (material property)	Annex B
	Water permeability (material property)	No performance assessed
BWR 4 Safety in use		
	Mechanical resistance and stability	No performance assessed
	Resistance to impact/movement	No performance assessed
	Adhesion	No performance assessed
	Durability	Z ₁
	Movement capacity	No performance assessed
	Cycling of perimeter seals for curtain walls	No performance assessed
	Compression set	No performance assessed
	Linear expansion on setting	No performance assessed
BWR 5 Protection against noise		
	Airborne sound insulation	Annex C
BWR 6 Energy economy 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

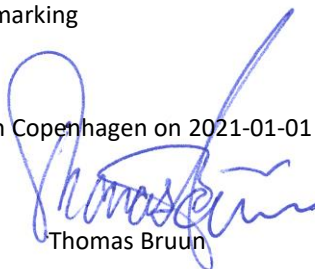
According to the decision 1999/454/EC – Commission Decision of date 22nd June 1999 on on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the 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 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 2021-01-01 by



Thomas Bruun

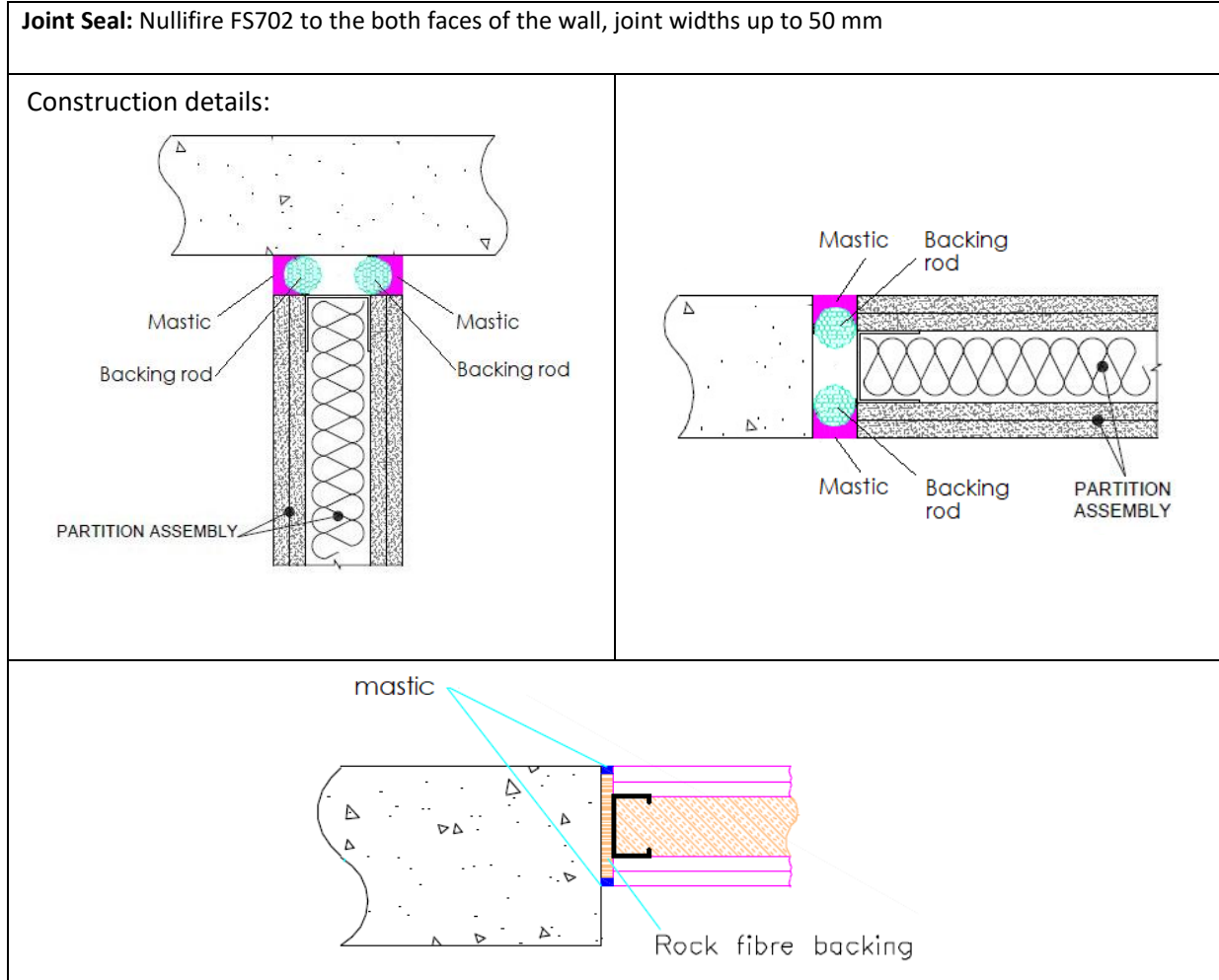
Managing Director, ETA-Danmark

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

ANNEX A – Resistance to Fire Classification – Nullifire FS702

A.1 Flexible or rigid wall constructions according to 1.2.1 with wall thickness of minimum 100 mm

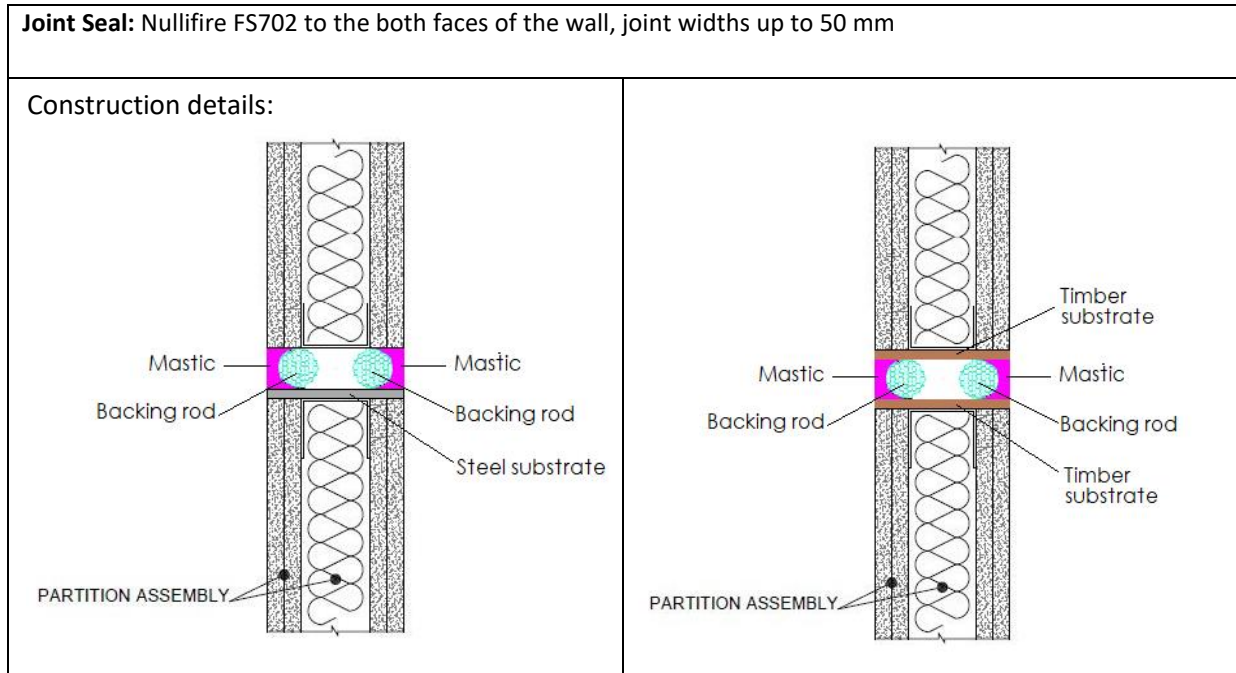
A.1.1 Linear joint or gap seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall



A.1.1.1

Substrate	Min. Depth (mm)	Backing	Classification
Plasterboard / concrete	10	PE rod	EI 120 – T – X – F – W 05 to W 10
	25		EI 120 – T – X – F – W 05 to W 50
	10		EI 60 – V – X – F – W 05 to W 10
	25		EI 90 – V – X – F – W 05 to W 50
	6	88 mm deep stone wool, mineral fibre 33kg/m ³	EI 90 – V – X – F – W 05 to W 10
	15	70 mm deep stone wool, mineral fibre 33kg/m ³	E 90 – V – X – F – W 05 to W 35 EI 60 – V – X – F – W 05 to W 35

A.1.2 Linear joint or gap seals, vertically or horizontally orientated with backing materials

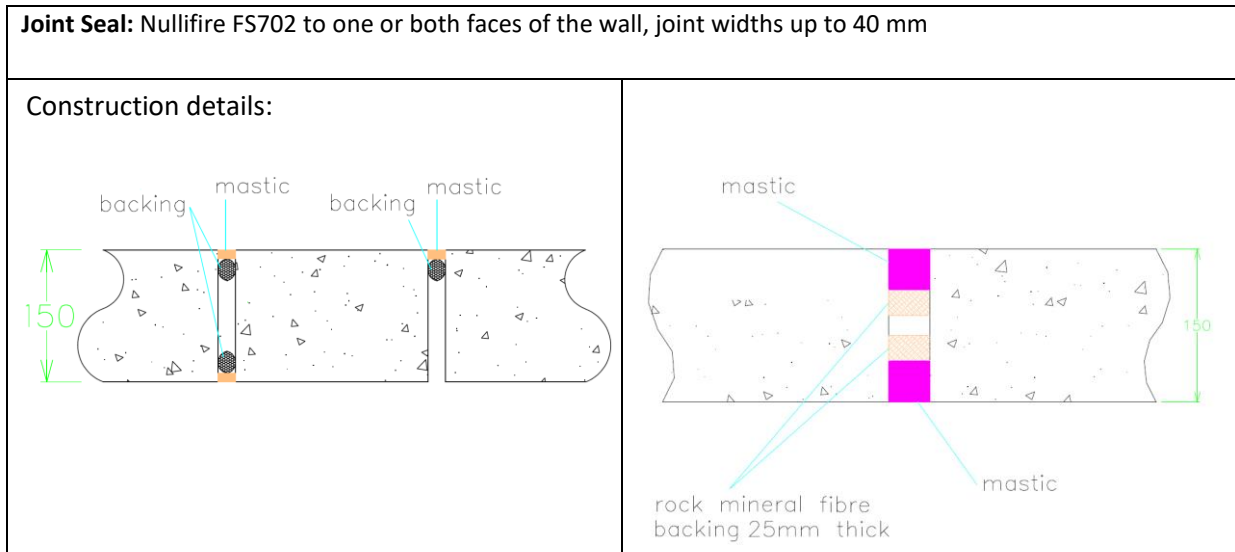


A.1.2.1

Substrate	Min. Depth (mm)	Backing	Classification	
Plasterboard / Steel	10	PE rod	E 120 – T – X – F – W 05 to W 10 EI 90 – T – X – F – W 05 to W 10	
	25		EI 90 – T – X – F – W 05 to W 50	
	10		E 90 – V – X – F – W 05 to W 10 EI 60 – V – X – F – W 05 to W 10	
	25		E 60 – V – X – F – W 05 to W 50 EI 45 – V – X – F – W 05 to W 50	
Timber / Timber	10		EI 90 – T – X – F – W 05 to W 10	
	25		EI 90 – T – X – F – W 05 to W 50	
	10		EI 90 – V – X – F – W 05 to W 10	
	25		EI 90 – V – X – F – W 05 to W 50	
Plasterboard / Plasterboard	15			EI 60 – V – X – F – W 05 to W 30

A.2 Rigid wall constructions with minimum thickness 150 mm

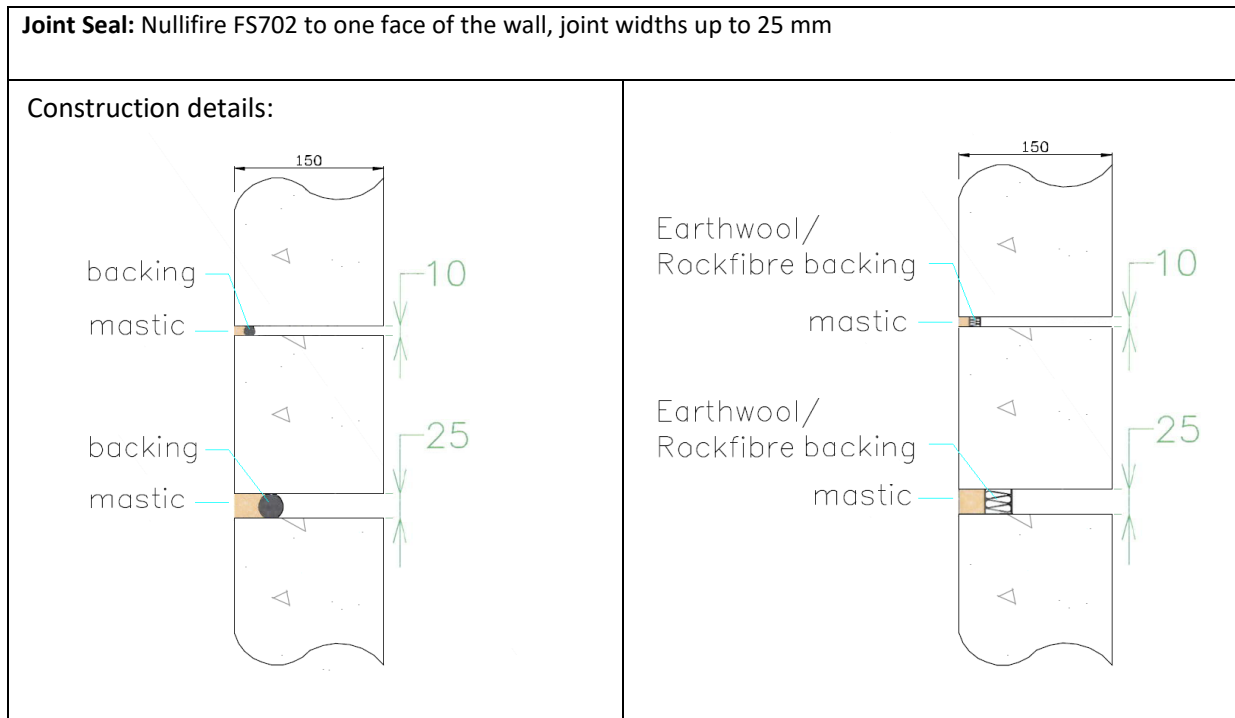
A.2.1 Vertical linear joint or gap seal between rigid walls



A.2.1.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	10 (both sides)	PE rod	EI 60 – V – X – F – W 05 to W 10
	10 (one side)		
	10 (both sides)		EI 60 – V – X – F – W 05 to W 20
	5 (both sides)	25 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³ , compressed by 30%	EI 240 – V – X – F – W 05 to W 10
	17 (both sides)		EI 240 – V – X – F – W 05 to W 35
	10 (both sides)	25 mm deep stone wool, mineral fibre 33kg/m ³	EI 240 – V – X – F – W 05 to W 10
	40 (both sides)		EI 240 – V – X – F – W 05 to W 40

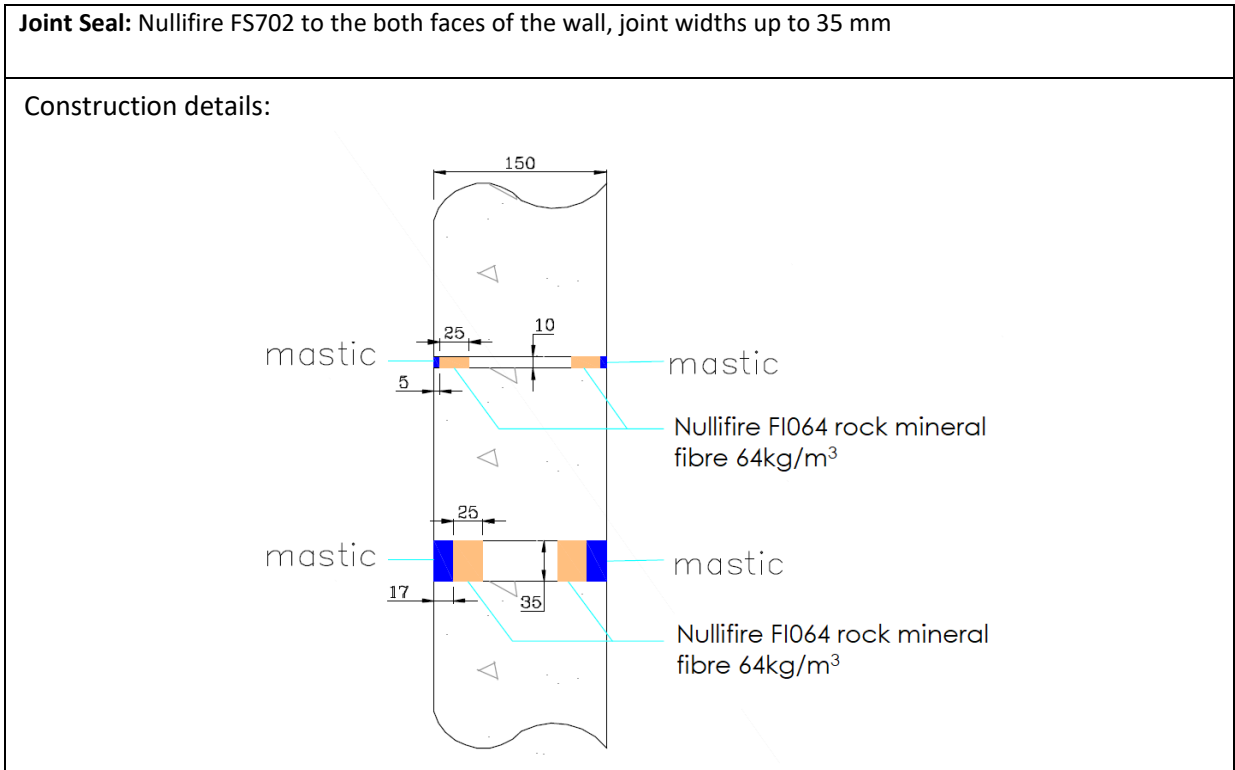
A.2.2 Horizontal linear joint or gap seal in rigid walls or between head of wall and concrete floor soffit



A.2.2.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	10	PE rod	E 240 – T – X – F – W 05 to W 10 EI 30– T – X – F – W 05 to W 10
	25		E 240 – T – X – F – W 05 to W 25 EI 120– T – X – F – W 05 to W 25
	10	10 mm deep stone wool, mineral fibre 33kg/m ³	E 240 – T – X – F – W 05 to W 10 EI 90– T – X – F – W 05 to W 10
	25	25 mm deep stone wool, mineral fibre 33kg/m ³	E 240 – T – X – F – W 05 to W 25 EI 180– T – X – F – W 05 to W 25

A.2.3 Horizontal linear joint or gap seal in rigid walls or between head of wall and concrete floor soffit

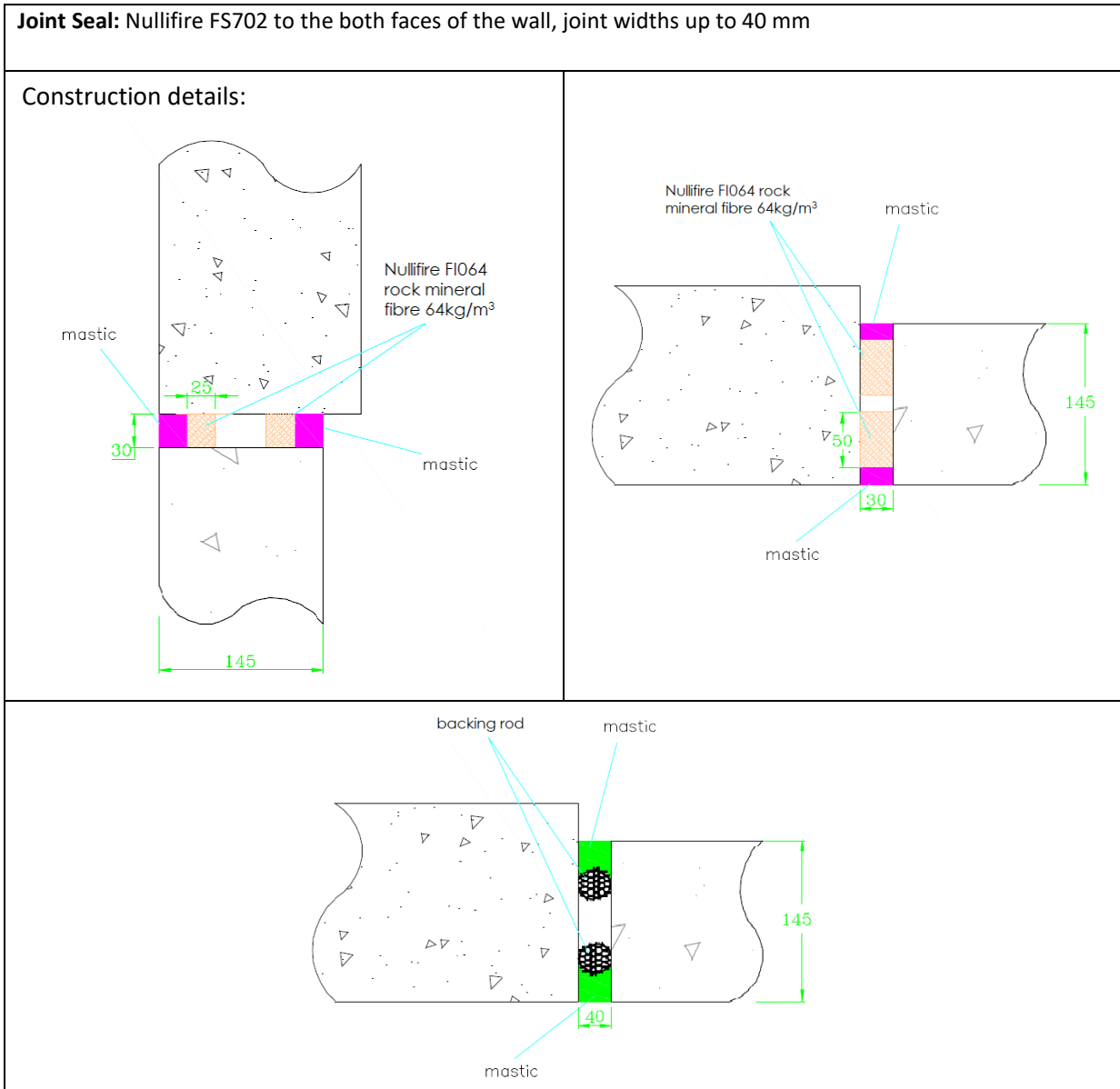


A.2.3.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	5	25 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³ ,	EI 240 – T – X – F – W 05 to W 10
	17	compressed by 30%	EI 240 – T – X – F – W 05 to W 35

A.3 Rigid wall constructions with minimum thickness 145 mm

A.3.1 Linear joint or gap seals, between head of rigid wall and soffit of concrete floor and vertical end of rigid wall and concrete wall

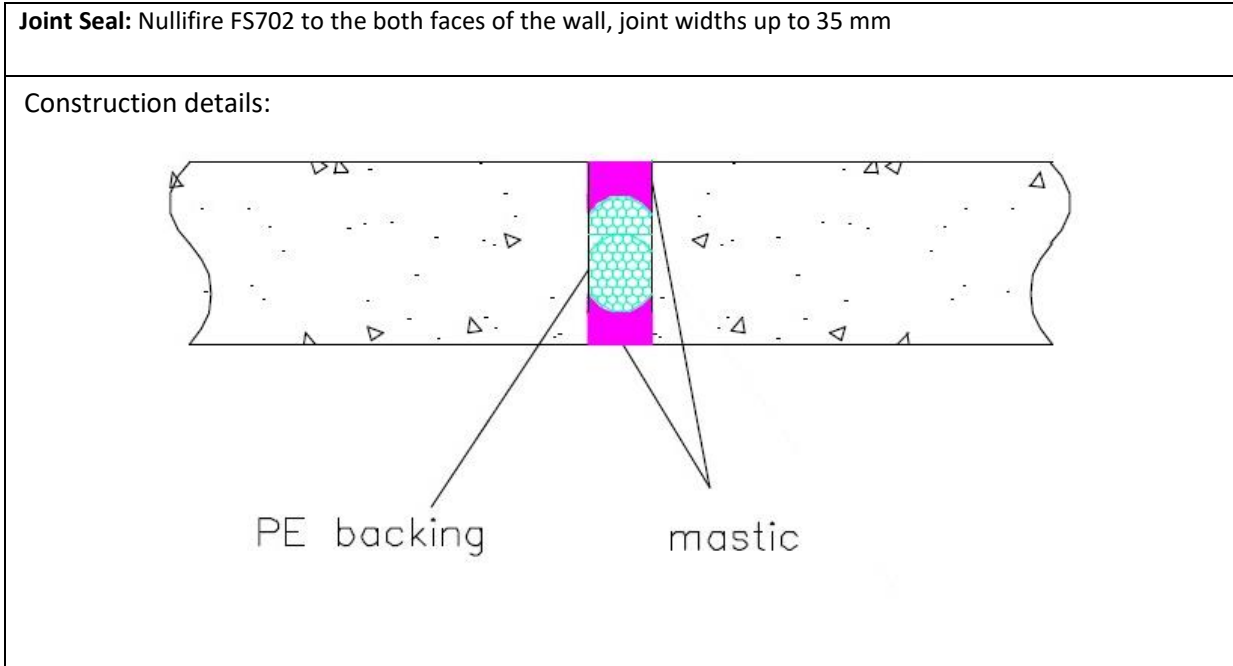


A.3.1.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	25	25 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³	EI 120 – T – X – F – W 05 to W 30
	15	50 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³	EI 120 – V – X – F – W 05 to W 30
	25	PE backing rod	EI 120 – V – X – F – W 05 to W 40

A.4 Rigid wall constructions with minimum thickness 100 mm

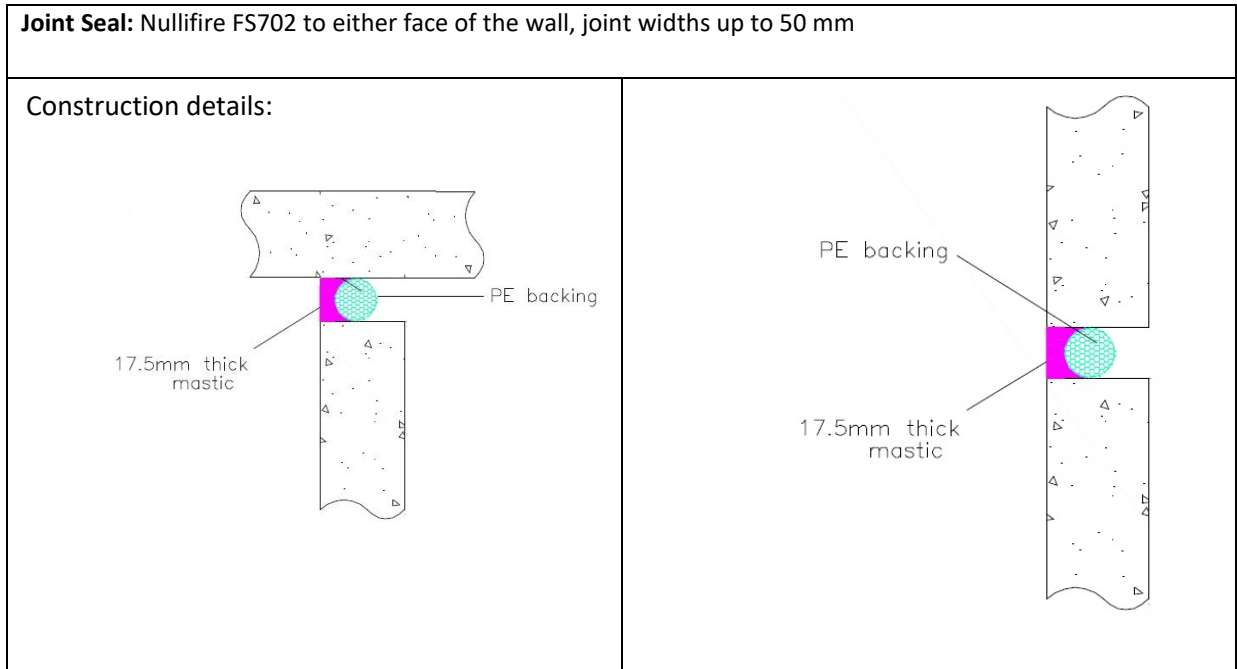
A.4.1 Vertical linear joint or gap seal between rigid walls



A.4.1.1

Substrate	Min. Depth (mm)	Backing	Classification
masonry/ concrete	17.5	PE rod	EI 240 – V – X – F – W 05 to W 35
masonry/ concrete / Steel	17.5		E 240 – V – X – F – W 05 to W 35 EI 120 – V – X – F – W 05 to W 35
masonry/ concrete /	17.5		EI 120 – V – X – F – W 05 to W 35
Timber	35		EI 180 – V – X – F – W 05 to W 35

A.4.2 Horizontal linear joint or gap seal in rigid walls or between head of wall and concrete floor soffit

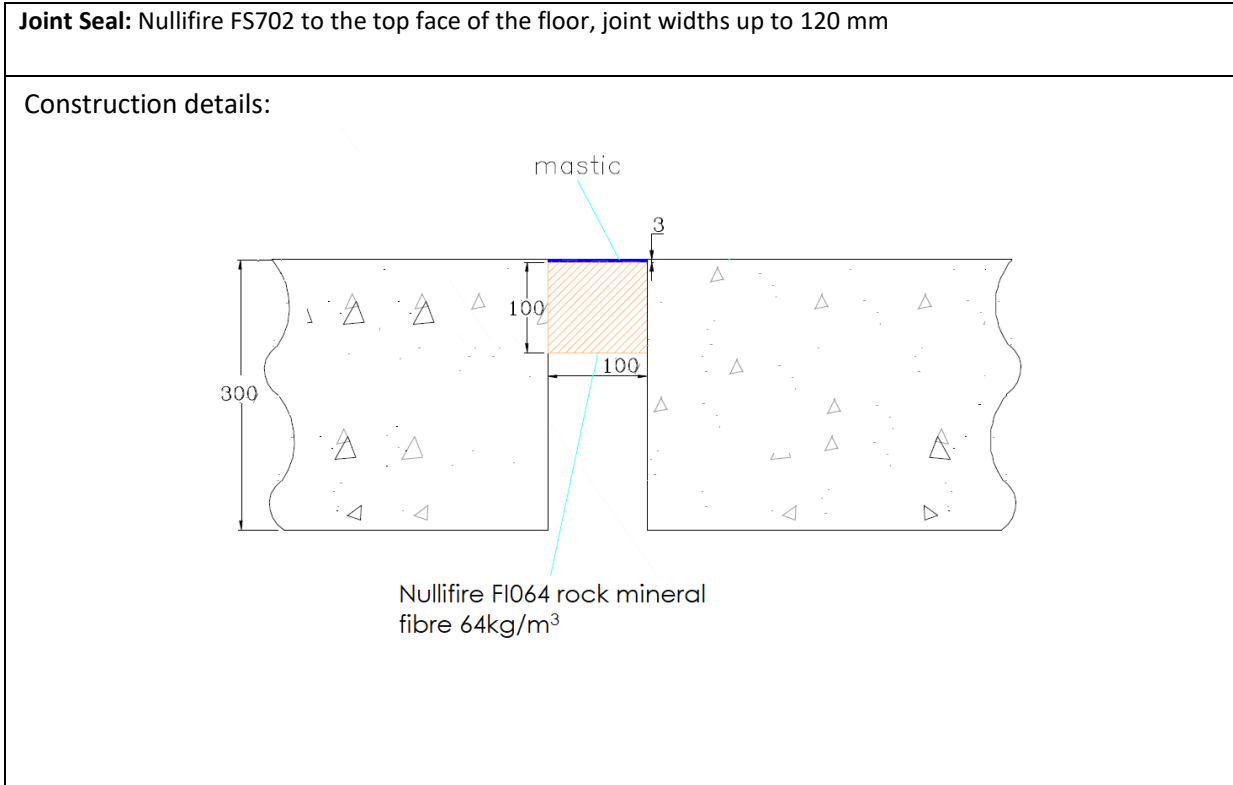


A.4.2.1

Substrate	Min. Depth (mm)	Backing	Classification
masonry/ concrete	17.5	PE rod	E 240 – T – X – F – W 05 to W 50 EI 90 – T – X – F – W 05 to W 50

A.5 Rigid floor constructions with minimum thickness 300 mm

A.5.1 Horizontal linear joint or gap seal, between floor slabs or between floor slab and wall with sealant to the top face of the floor only



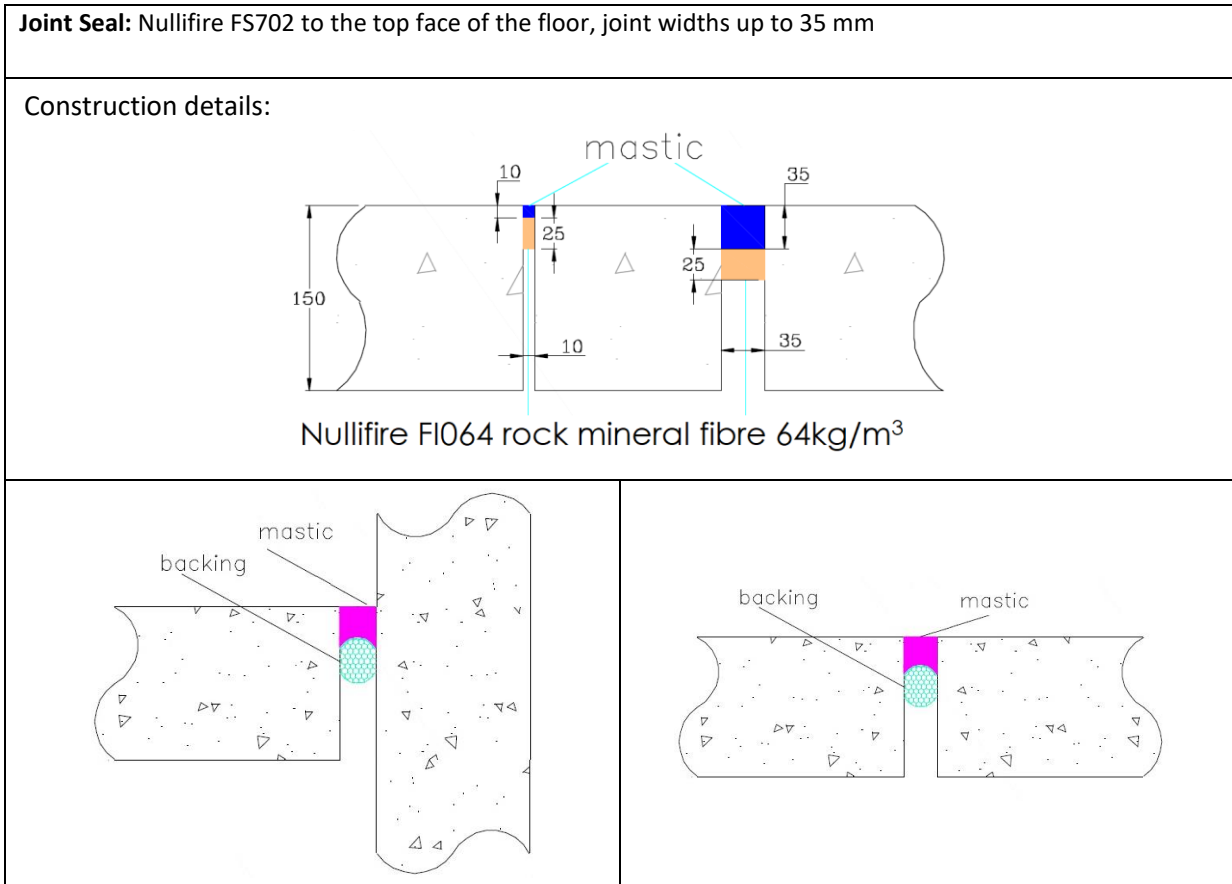
A.5.1.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	3	100 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³ , compressed by 30%	EI 240 – H – X – F – W 05 to W 100
Masonry/ concrete	3*	100 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³ , compressed by 17%	EI 240 – H – X – F – W 05 to W 120

*Mastic to overlap on each edge of the supporting construction, nominal 1 mm thick by 25 mm wide

A.6 Rigid floor constructions with minimum thickness 150 mm

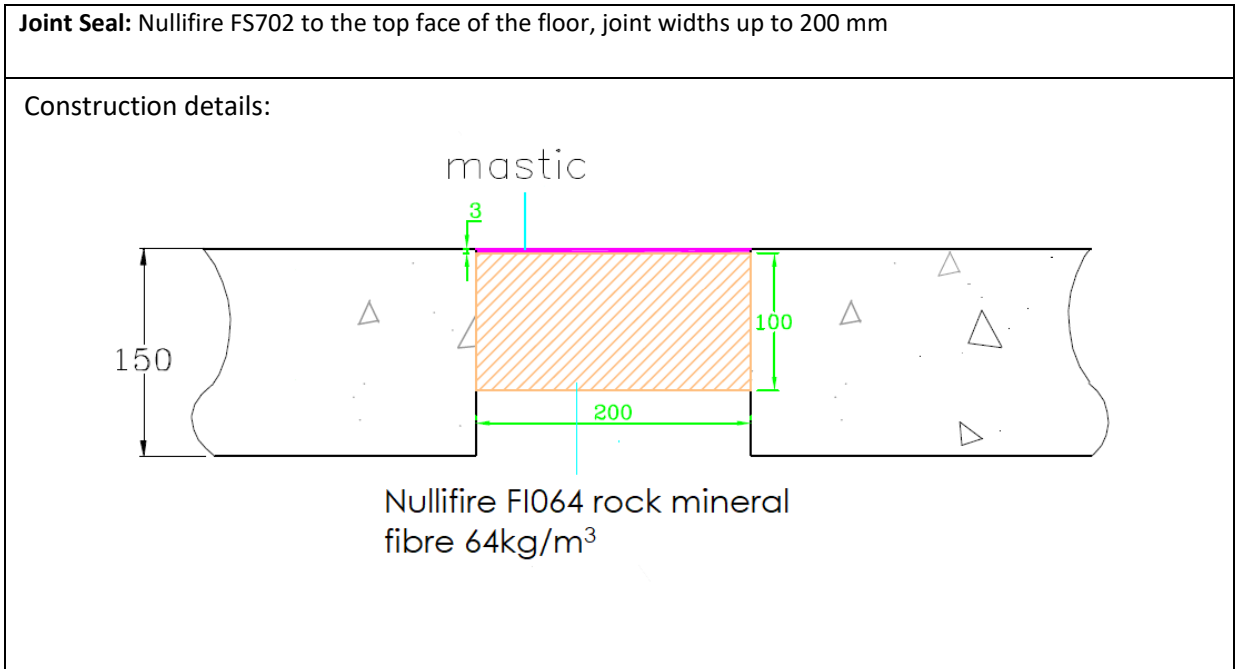
A.6.1 Horizontal linear joint or gap seal, between floor slabs or between floor slab and wall with sealant to the top face of the floor only



A.6.1.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	10	25 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³ , compressed by 30%	EI 240 – H – X – F – W 05 to W 10
	35		EI 240 – H – X – F – W 05 to W 35
	30		EI 120 – H – X – F – W 05 to W 35
	50		EI 240 – H – X – F – W 05 to W 35
masonry/ concrete / Steel	30	PE rod	E 240 – H – X – F – W 05 to W 35 EI 30 – H – X – F – W 05 to W 35
	50		E 240 – H – X – F – W 05 to W 35 EI 45 – H – X – F – W 05 to W 35
Masonry /concrete / timber	30		EI 90 – H – X – F – W 05 to W 35
	50		EI 180 – H – X – F – W 05 to W 35

A.6.2 Horizontal linear joint or gap seal, between floor slabs or between floor slab and wall with sealant to the top face of the floor only



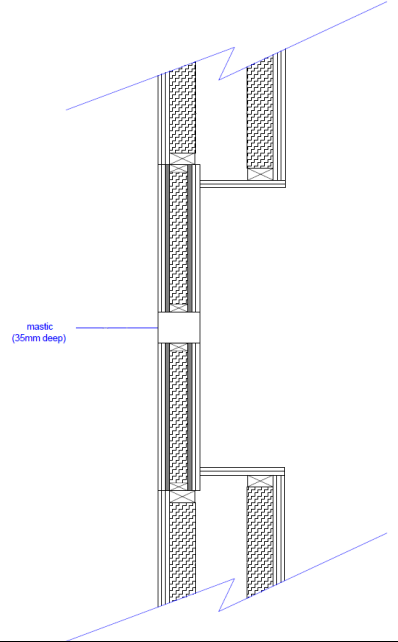
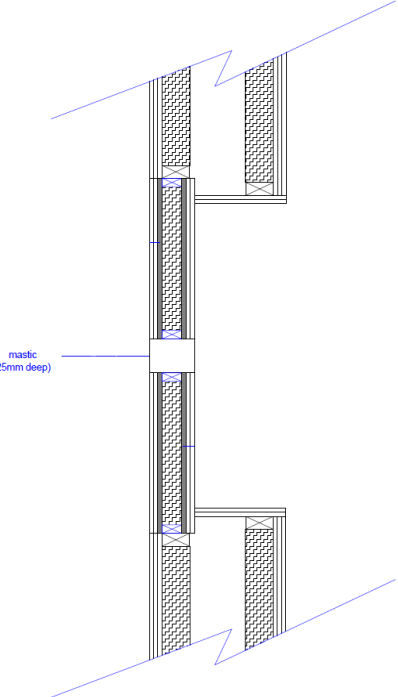
A.6.2.1

Substrate	Min. Depth (mm)	Backing	Classification
Masonry/ concrete	3	100 mm deep Nullifire FI064 rock mineral fibre 64kg/m ³ , compressed by 5%	EI 240 – H – X – F – W 05 to W 200

ANNEX B – Air Permeability - Nullifire FS702

Product tested	Linear mastic sealant panel with 35 mm thick Nullifire FS702 sealant		
	Summary of testing procedure		Result
	Pressure (Pa)	Leakage (m³/h)	Leakage (m³/m²/h)
Results under negative chamber pressure	50	0.00	0.00
	100	0.00	0.00
	150	0.01	0.06
	200	0.01	0.06
	250	0.01	0.06
	300	0.02	0.11
	450	0.04	0.22
	600	0.03	0.17
	2000	0.74	4.11
Results under positive chamber pressure	50	0.00	0.00
	100	0.02	0.11
	150	0.03	0.17
	200	0.03	0.17
	250	0.02	0.11
	300	0.03	0.17
	450	0.03	0.17
	600	0.05	0.28
	2000	1.28	7.11

ANNEX C – Airborne sound insulation– Nullifire FS702

Configuration	Performance
 <p>mastic (35mm deep)</p>	<p>Dnew - 59 (-1;-5) dB Rw (1.87m²) - 52 (-1;-6) dB Rw (14.2m²) - 61 (-1;-6) dB</p>
 <p>mastic (25mm deep)</p>	<p>Dnew - 58 (-1;-5) dB Rw (1.87m²) - 50 (-0;-4) dB Rw (14.2m²) - 59 (-1;-4) dB</p>