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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



European Technical Assessment ETA-21/0111 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:

MULCOL® MULTISEALANT A

Product family to which the above construction product belongs:

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

Manufacturer:

Mulcol International BV
Arnesteinweg 18
4338 PD Middelburg
The Netherlands

Manufacturing plant:

A/003

This European Technical Assessment contains:

21 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 350141-00-1106

This version replaces:

-

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

- 1) MULCOL® MULTISEALANT A 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 MULCOL® MULTISEALANT A is supplied in liquid form contained within 310 ml cartridges. The sealant is gunned into the aperture in the separating element/elements and around the service or services, to a specified depth utilising mineral fibre insulation backing material.
- 3) MULCOL® MULTISEALANT A contains no carcinogenic substances or mutagenic substances, flameretardants or antimicrobiological agents.
- 4) The applicant has submitted a written declaration that MULCOL® MULTISEALANT A 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.

- 5) The use category of MULCOL® MULTISEALANT A in relation to BWR 3 (Hygiene, health and environment) is IA1, S/W3

2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): EAD 350141-00-1106

Detailed information and data is given in Annex A.

The intended use of system MULCOL® MULTISEALANT A 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.

- 1) The specific elements of construction that the system MULCOL® MULTISEALANT A may be used to provide a gap or joint seal in, are as follows:

Flexible walls:	The wall must have a minimum thickness of 10 mm and comprise steel studs lined on both faces with minimum 2 layers of 12.5 mm thick boards.
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/m ³ .
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/m ³ .

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

- 2) The system MULCOL® MULTISEALANT A may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex A).
- 3) The maximum permitted joint/gap width for system MULCOL® MULTISEALANT A is 100 mm.
- 4) The maximum movement capability of system MULCOL® MULTISEALANT A is $\leq 7.5\%$
- 5) The provisions made in this European Technical Assessment are based on an assumed working life of the MULCOL® MULTISEALANT A of 30 years, provided that the conditions laid down in the product data sheet regarding 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: Sealant		Intended use: Linear Joint & Gap Seal	
	Essential characteristic	Performance	
	Mechanical resistance and stability		
	None	Not relevant	
Safety in case of fire			
	Reaction to fire	Class D-s1, d1	
	Resistance to fire	Annex A	
Hygiene, health and environment			
	Air permeability (material property)	No performance assessed	
	Water permeability (material property)	No performance assessed	
	Release of dangerous substances	Declaration of manufacturer	
Safety in use			
	Mechanical resistance and stability	No performance assessed	
	Resistance to impact/movement	No performance assessed	
	Adhesion	No performance assessed	
Protection against noise			
	Airborne sound insulation	Rw(C;Ctr)= 62 (-1;-5) dB*	
	Impact sound insulation	No performance assessed	
Energy economy and heat retention			
	Thermal properties	No performance assessed	
	Water vapour permeability	No performance assessed	
General aspects relating to fitness for use			
	Durability and serviceability	Z ₂	

* At 12 mm depth

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

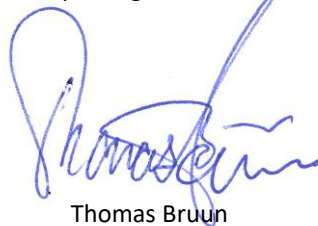
According to the decision 1999/454/EC – Commission Decision of date 22nd June 1999 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, see <http://eur-lex.europa.eu/JOIndex.do> 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 - Mulcol® Multisealant A

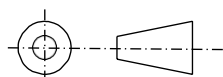
Linear joint seals

Mulcol® Multisealant A

Flexible wall construction according to I.2.2

MULCOL
FIRE PROTECTION

American projection



Scale : 1:5

Unit of measure : mm

Date : 15-10-2017

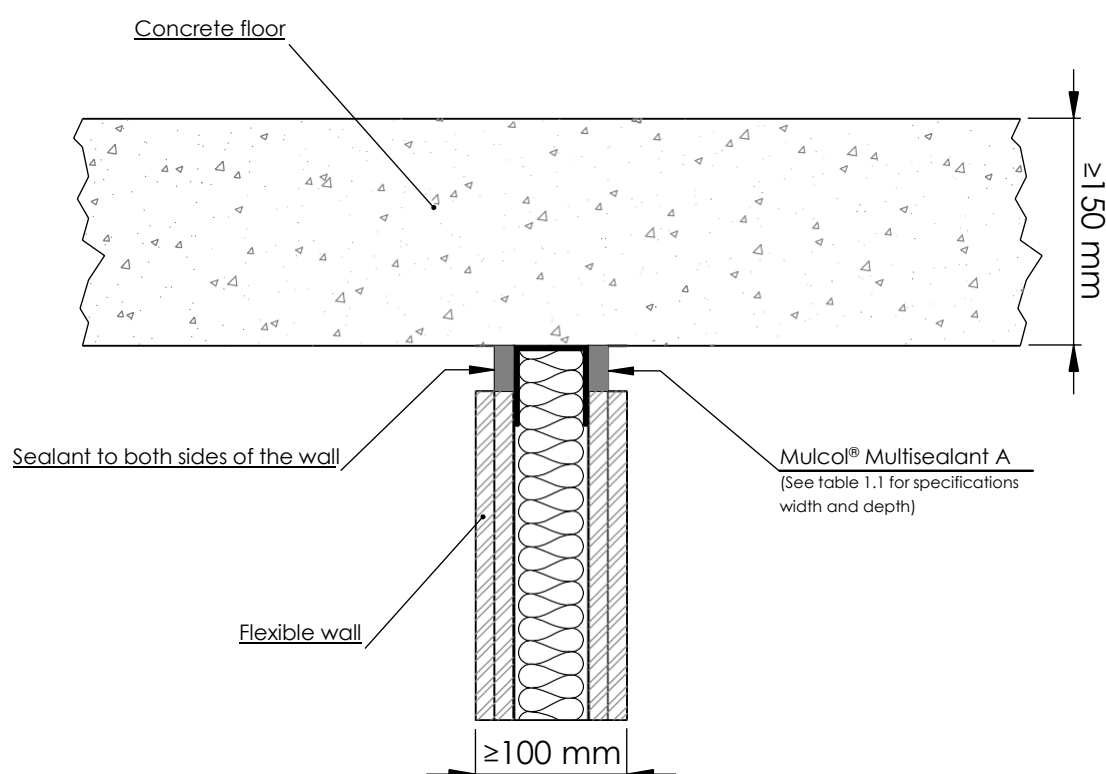
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : K.J.

FW-JNT-MSA2.1.2

A4



A 1.1 Linear joint seals, between head of flexible wall and soffit of concrete floor

Substrate	Classification	Sealant depth	Backing	Maximum seal
Plasterboard wall / Concrete floor	EI 90 - T - X - F - W 25	12,5 mm	50 mm steel partition head track	25 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint seals

Mulcol® Multisealant A

Flexible wall construction according to I.2.1

MULCOL
FIRE PROTECTION

American projection

Scale : 1:5

Company : Mulcol International B.V.

FW-JNT-MSA2.1.2

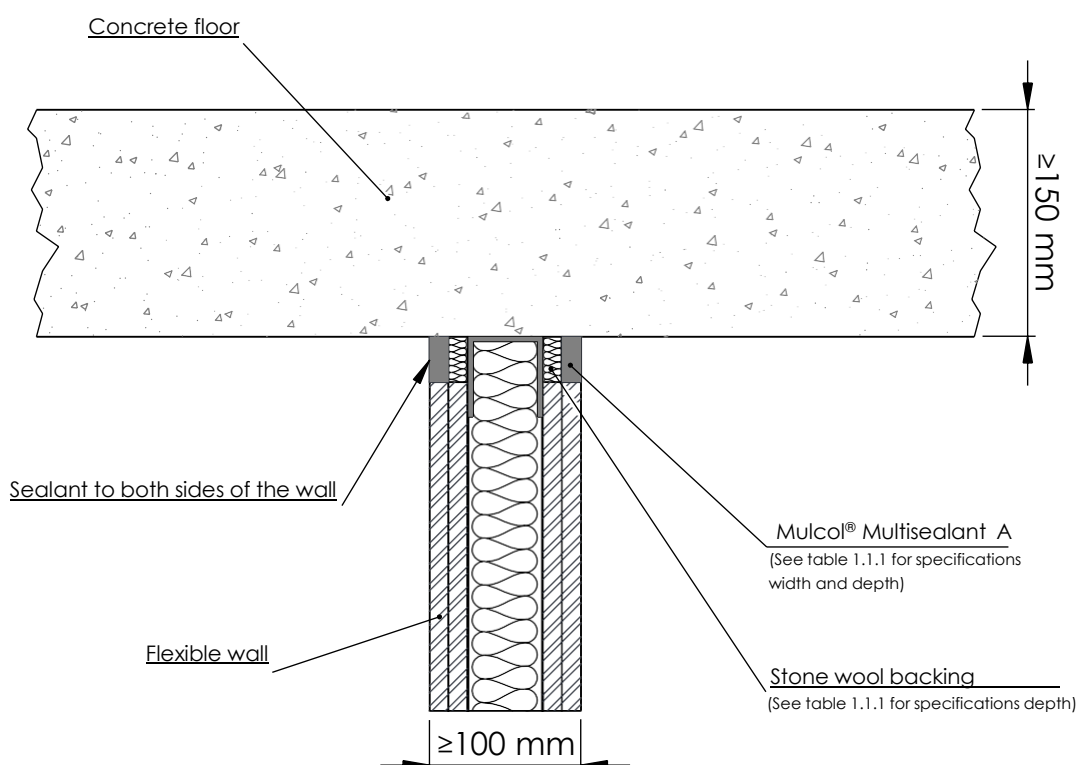
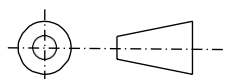
Unit of measure : mm

Department : Research & Development

Date : 15-2-2017

Draftsman : R.M.

A4



A 1.1.1 Linear joint seals, between head of flexible wall and soffit of concrete floor

Substrate	Classification	Sealant depth	Backing	Maximum seal
Plasterboard wall / Concrete floor	EI 120 - T - X - F - W 00 to 30	12.5 mm	12.5 mm Stone wool insulation, 35 kg/m ³ plus 50 mm steel partition head track	30 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint seals

Mulcol® Multisealant A

Flexible wall construction according to I.2.1

MULCOL

FIRE PROTECTION

American projection

Scale : 1:5

Company : Mulcol International B.V.

FW-JNT-MSA2.1.2

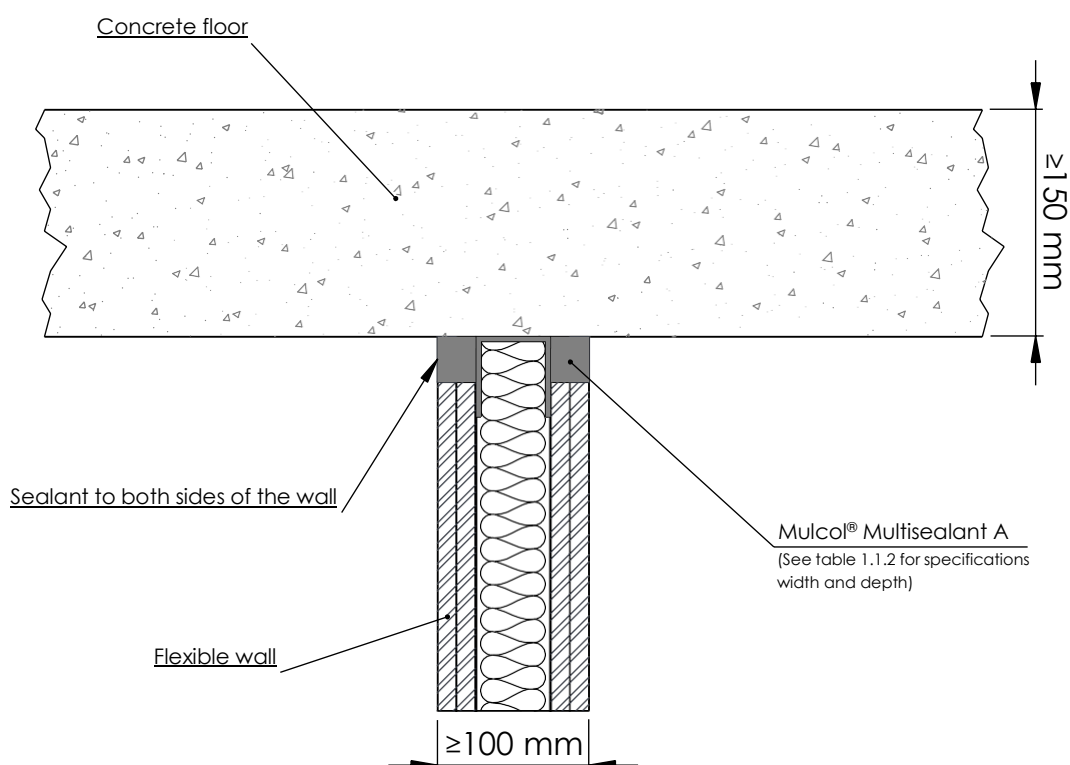
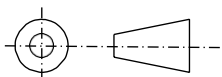
Unit of measure : mm

Department : Research & Development

Date : 15-2-2017

Draftsman : R.M.

A4



A 1.1.2 Linear joint seals, between head of flexible wall and soffit of concrete floor

Substrate	Classification	Sealant depth	Backing	Maximum seal
Plasterboard wall / Concrete floor	EI 120 - T - X - F - W 00 to 30	25 mm	50 mm steel partition head track	30 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

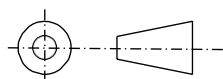
Linear joint seals

Mulcol® Multisealant A

Flexible wall construction according to I.2.2

MULCOL
FIRE PROTECTION

American projection



Scale : 1:5

Unit of measure : mm

Date : 15-10-2017

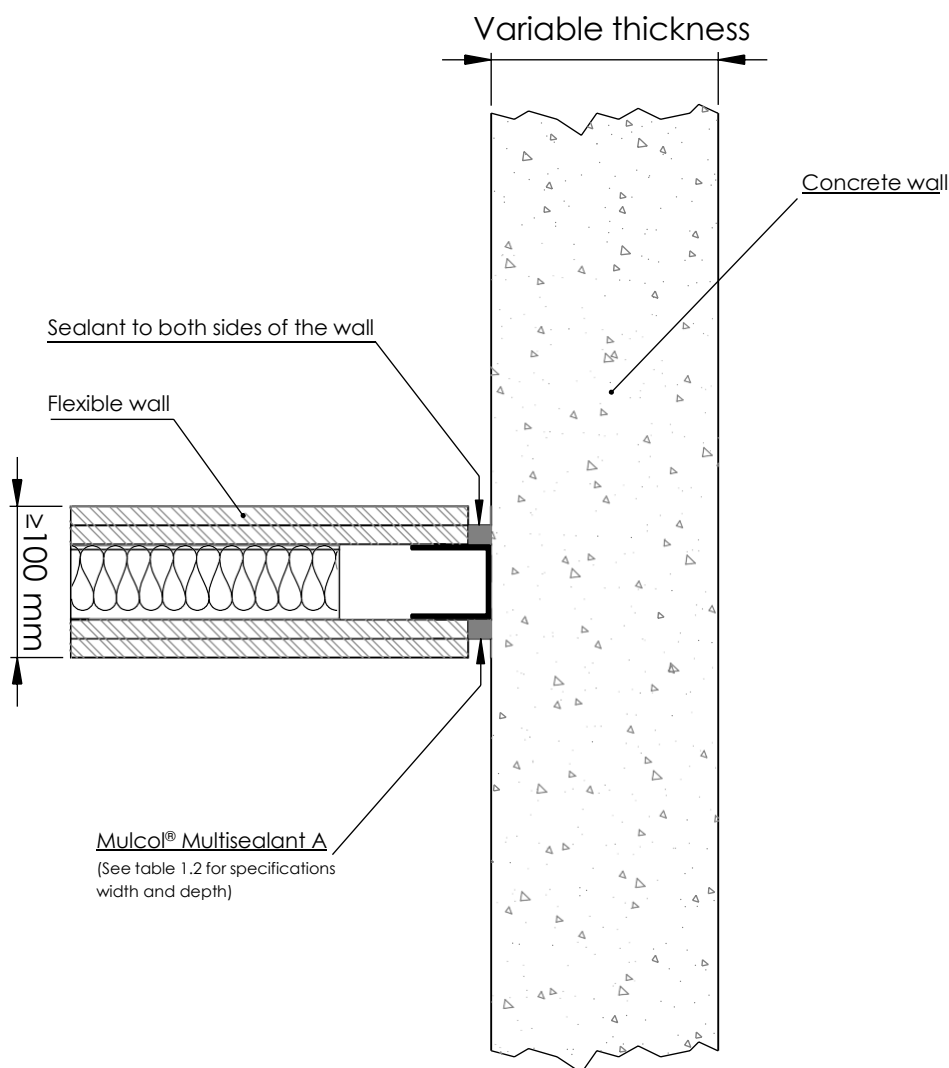
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : K.J.

FW-JNT-MSA2.2.2

A4



A 1.2 Linear joint seals, between vertical end of flexible wall and concrete wall

Substrate	Classification	Sealant depth	Backing	Maximum seal
Plasterboard wall / Concrete wall	EI 90 - V - X - F - W 15	12.5 mm	50 mm steel partition head track	15 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

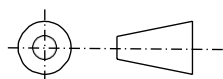
Linear joint seals

Mulcol® Multisealant A

Flexible wall construction according to I.2.1

MULCOL
FIRE PROTECTION

American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

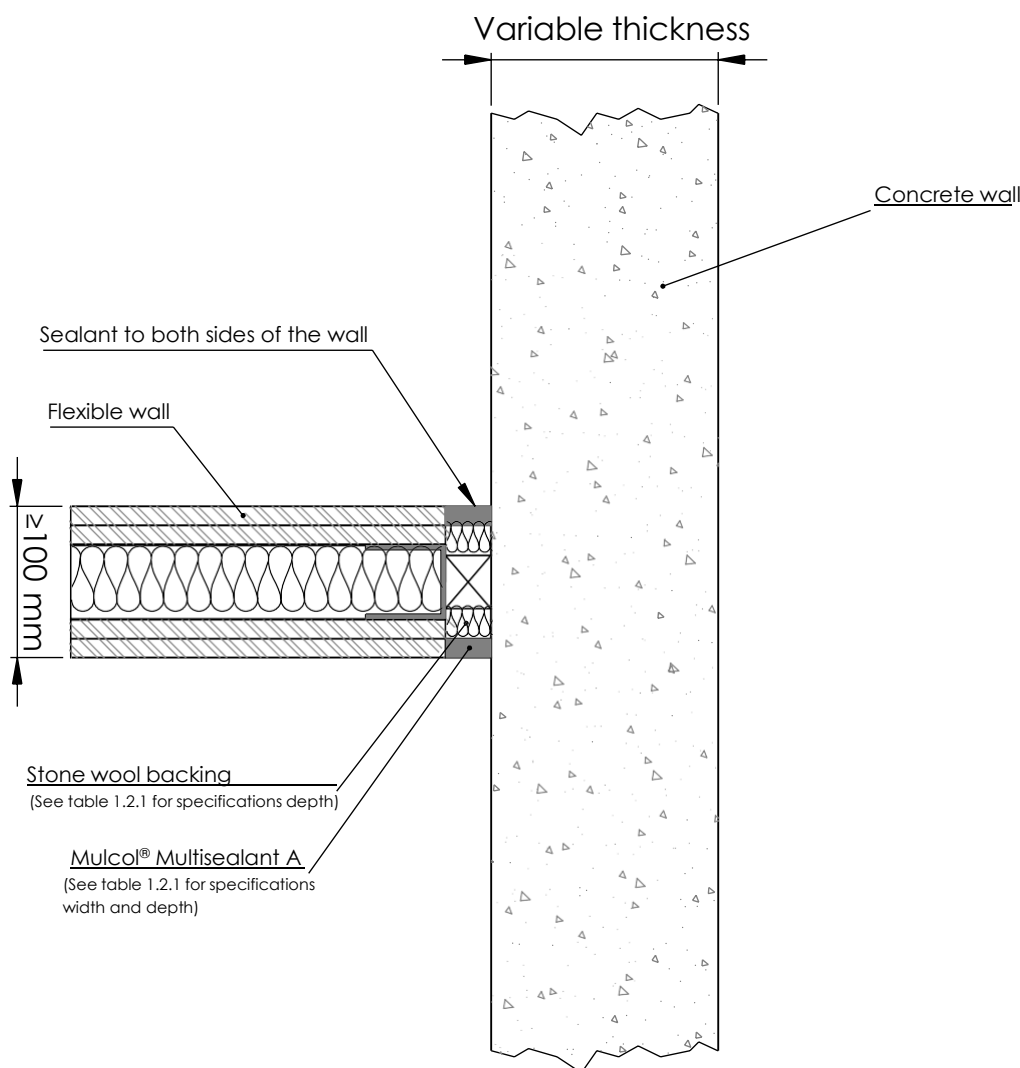
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

FW-JNT-MSA2.2.2

A4



A 1.2.1 Linear joint seals, between vertical end of flexible wall and concrete wall

Substrate	Classification	Sealant depth	Backing	Maximum seal
Plasterboard wall* / Concrete wall	EI 120 - V - X - F - W 00 to 30	12.5 mm	20 mm Stone wool insulation, 35 kg/m ³	30 mm
*Maximum partition/wall height of 3 metres				

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint seals

Mulcol® Multisealant A

Flexible wall construction according to I.2.2

MULCOL
FIRE PROTECTION

American projection

Scale : 1:5

Company : Mulcol International B.V.

FW-JNT-MSA2.1.2

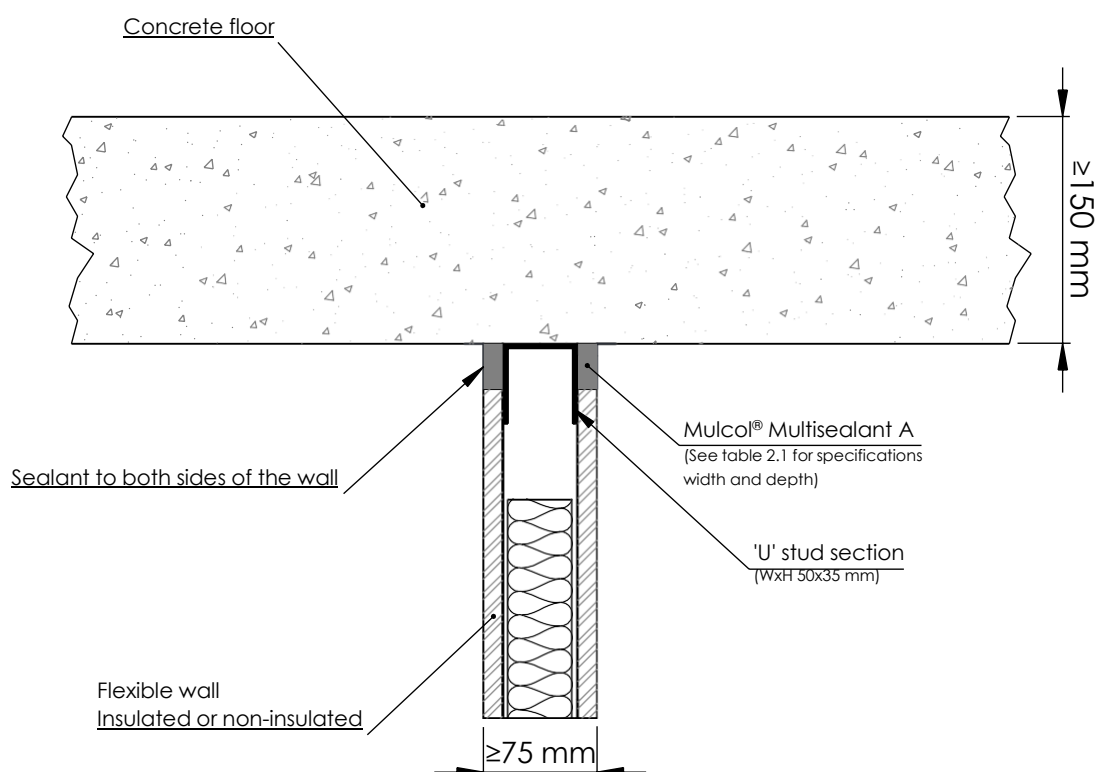
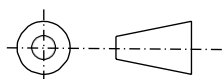
Unit of measure : mm

Department : Research & Development

Date : 15-10-2017

Draftsman : K.J.

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A 2.1 Linear joint seals, between head of flexible wall and soffit of concrete floor

Substrate	Classification	Sealant depth	Backing	Maximum seal
Plasterboard wall / Concrete floor	E 60 - T - X - F - W 25 EI 45 - T - X - F - W 25	12.5 mm	50 mm steel partition head track	25 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

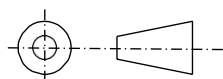
Linear joint seals

Mulcol® Multisealant A

Flexible wall construction according to I.2.2

MULCOL
FIRE PROTECTION

American projection



Scale : 1:5

Unit of measure : mm

Date : 15-10-2017

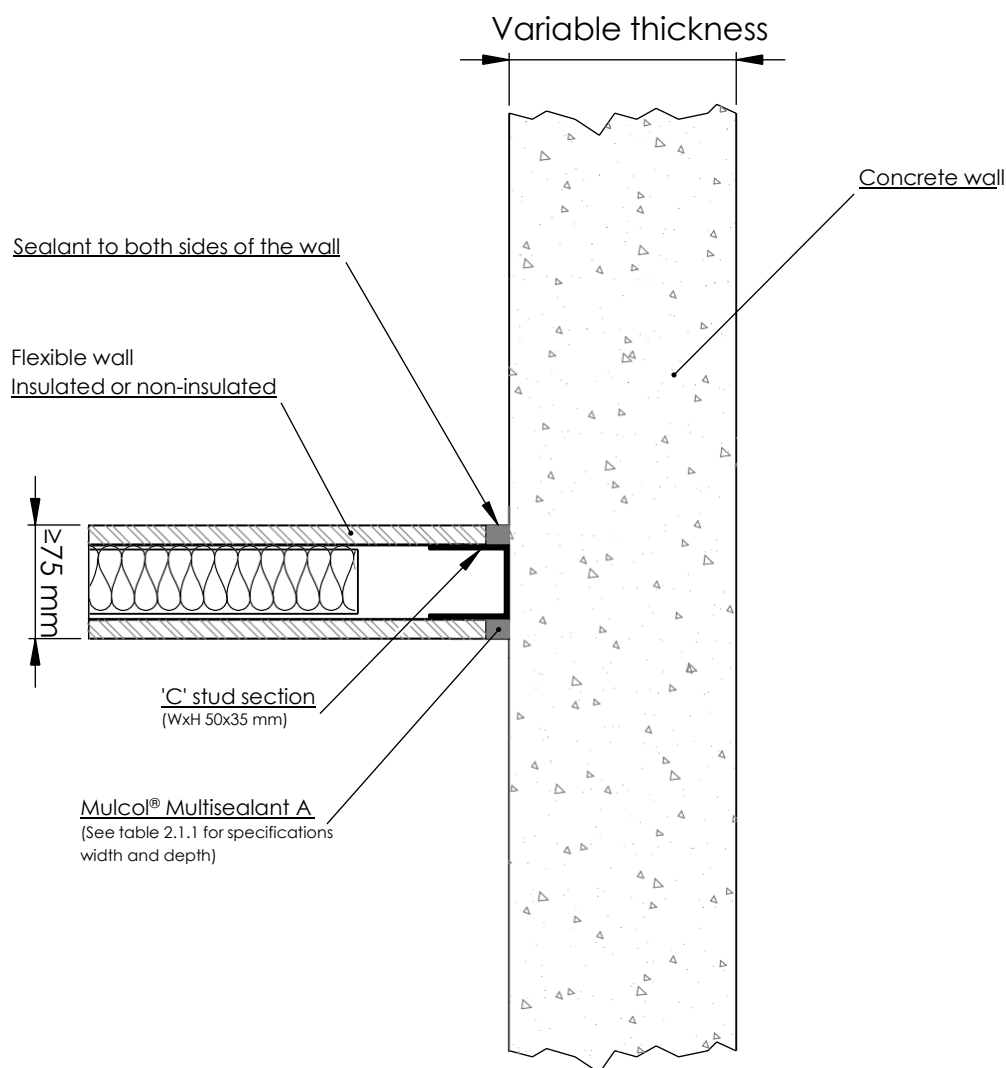
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : K.J.

FW-JNT-MSA2.2.2

A4



A 2.2 Linear joint seals, between vertical end of flexible wall and concrete wall

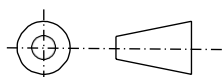
Substrate	Classification	Sealant depth	Backing	Maximum seal
Plasterboard wall / Concrete wall	E 60 - V - X - F - W 15 EI 45 - V - X - F - W 15	12.5 mm	50 mm steel partition head track	15 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint or gap seal
Mulcol® Multisealant A
Rigid wall construction according to I.2.1



American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

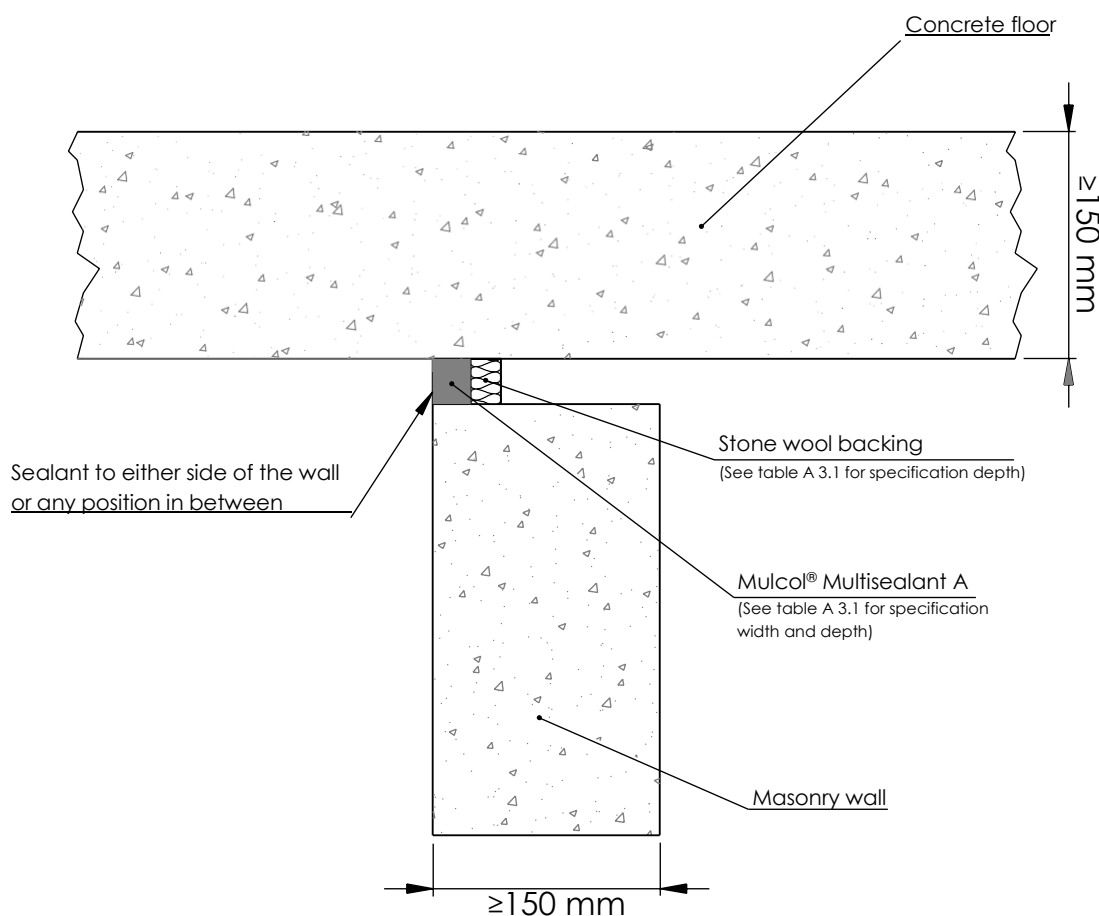
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

RW-JNT-MSA1.1.2


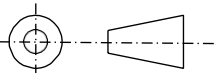
A4

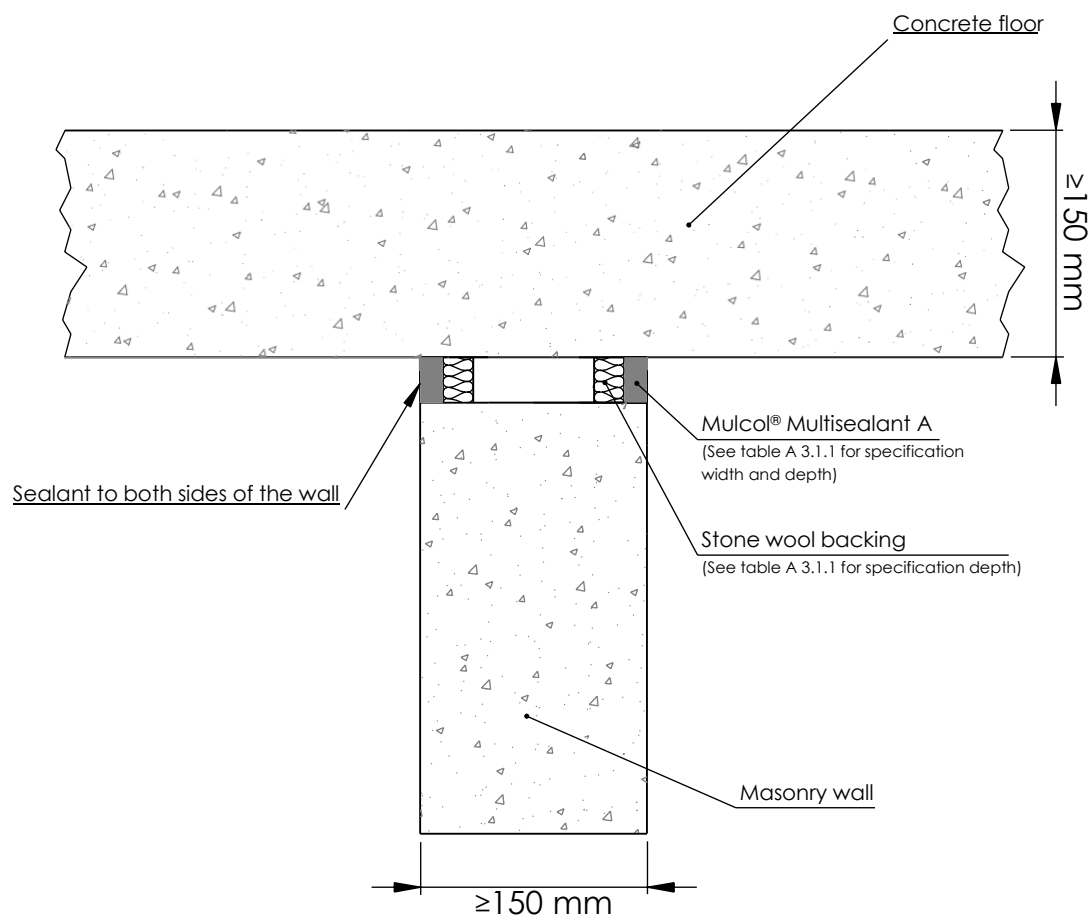


A 3.1 Linear joint or gap seal, between head of masonry wall and soffit of concrete floor

Substrate	Classification	Sealant depth	Backing	Maximum seal
Masonry wall to Concrete floor	E 240 - T - X - F - W 00 to 30 EI 60 - T - X - F - W 00 to 30	25 mm	20 mm Stone wool insulation, 40 kg/m ³	30 mm
Masonry wall to Concrete floor	E 240 - T - X - F - W 50 EI 60 - T - X - F - W 50	10 mm	60 mm Stone wool insulation, 33 kg/m ³	50 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint or gap seal Mulcol® Multisealant A Rigid wall construction according to I.2.1			
American projection 	Scale : 1:5	Company : Mulcol International B.V.	RW-JNT-MSA2.1.2
	Unit of measure : mm	Department : Research & Development	
	Date : 15-2-2017	Draftsman : R.M.	A4



A 3.1.1 Linear joint or gap seal, between head of masonry wall and soffit of concrete floor

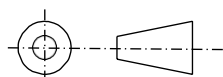
Substrate	Classification	Sealant depth	Backing	Maximum seal
Masonry wall / Concrete floor	EI 240 - T - X - F - W 00 to 30	15 mm	20 mm Stone wool insulation, 40 kg/m ³	30 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint or gap seal
Mulcol® Multisealant A
Rigid wall construction according to I.2.1



American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

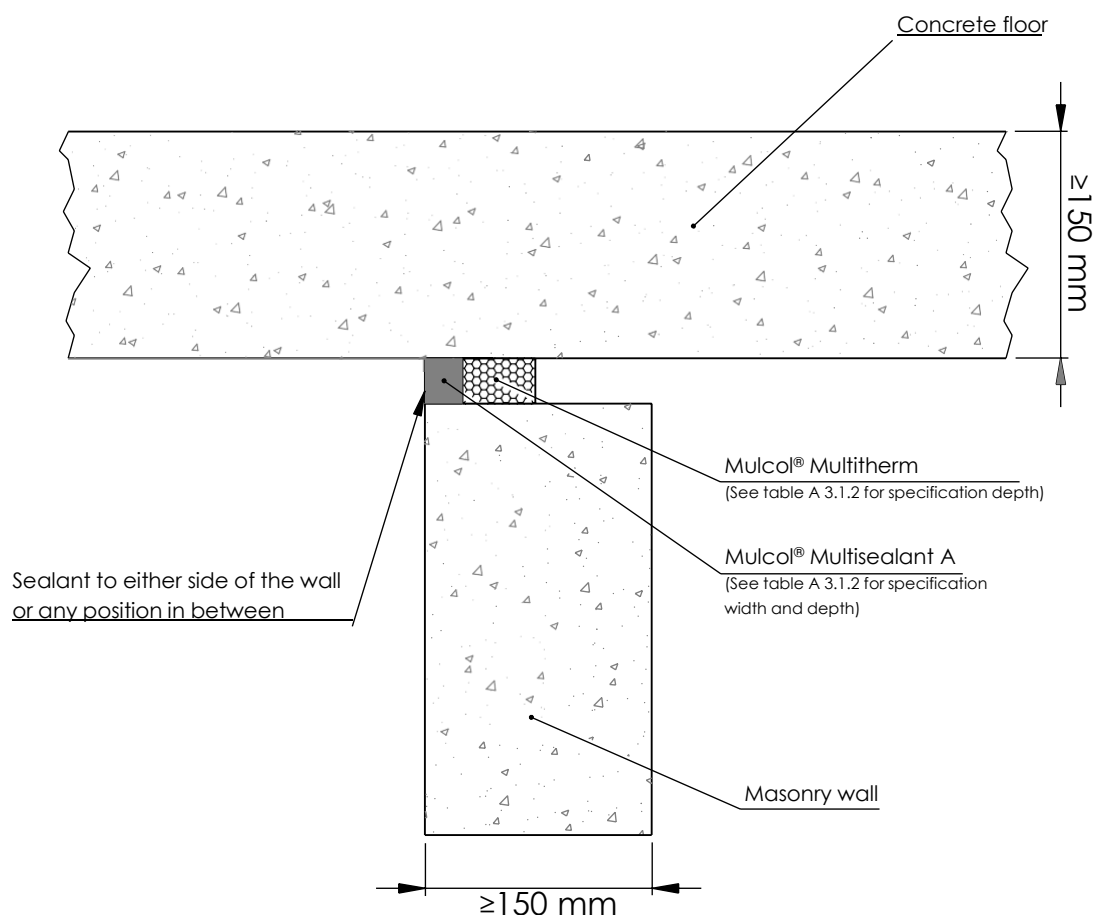
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

RW-JNT-MSA1.1.2

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A 3.1.2 Linear joint or gap seal, between head of masonry wall and soffit of concrete floor

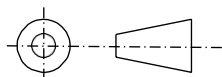
Substrate	Classification	Sealant depth	Backing	Maximum seal
Masonry wall / Concrete floor	E 240 - T - X - F - W 00 to 30 EI 120 - T - X - F - W 00 to 30	25 mm	48 mm Mulcol® Multitherm Backing	30 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint or gap seal
Mulcol® Multisealant A
Rigid wall construction according to I.2.1



American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

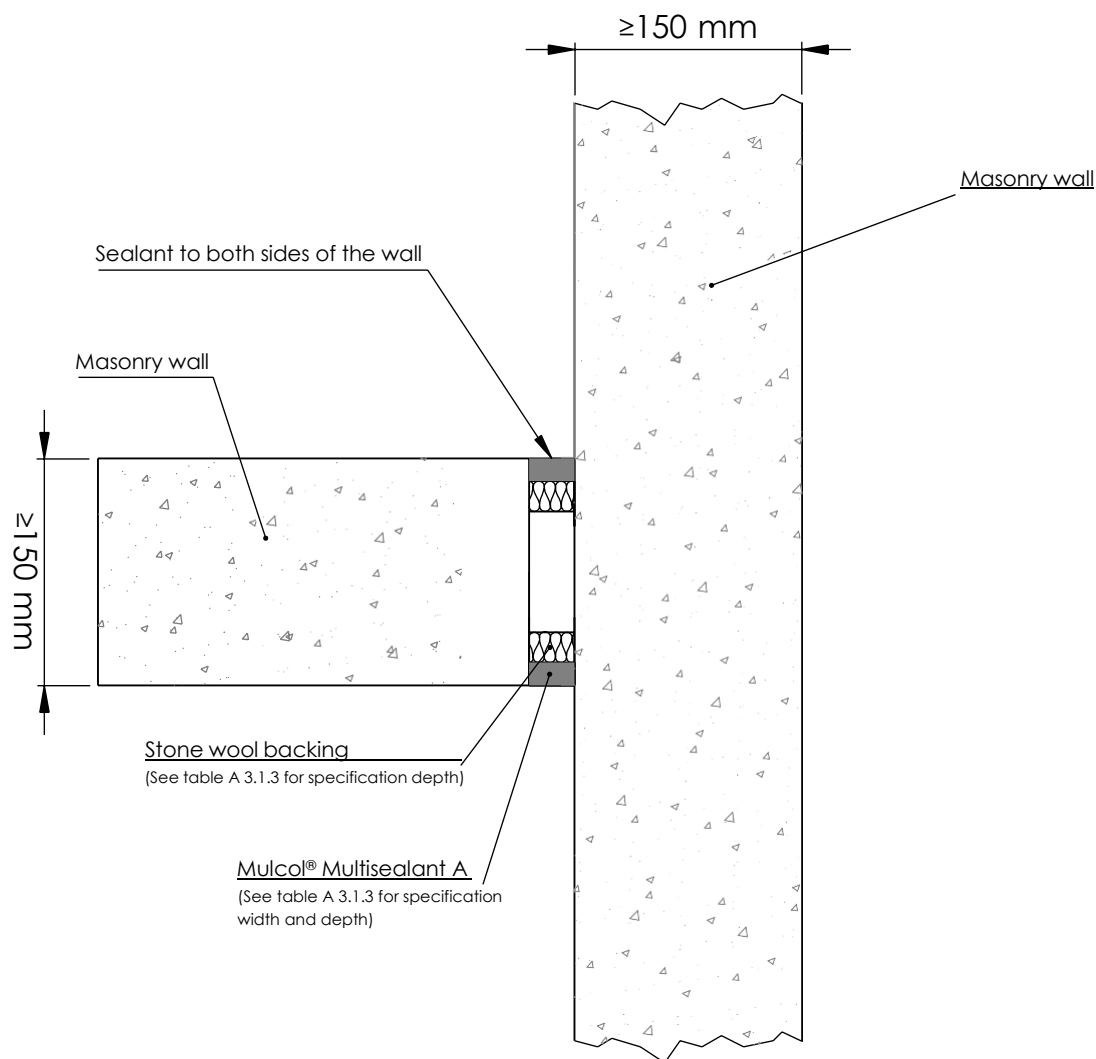
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

RW-JNT-MSA2.2.2

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A 3.2 Linear joint or gap seal, between vertical end of masonry wall and masonry wall

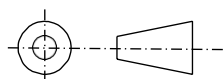
Substrate	Classification	Sealant depth	Backing	Maximum seal
Masonry wall / Masonry or concrete wall	EI 240 - V - X - F - W 00 to 30	15 mm	20 mm Stone wool insulation, 40 kg/m ³	30 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint or gap seal
Mulcol® Multisealant A
Rigid wall construction according to I.2.1



American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

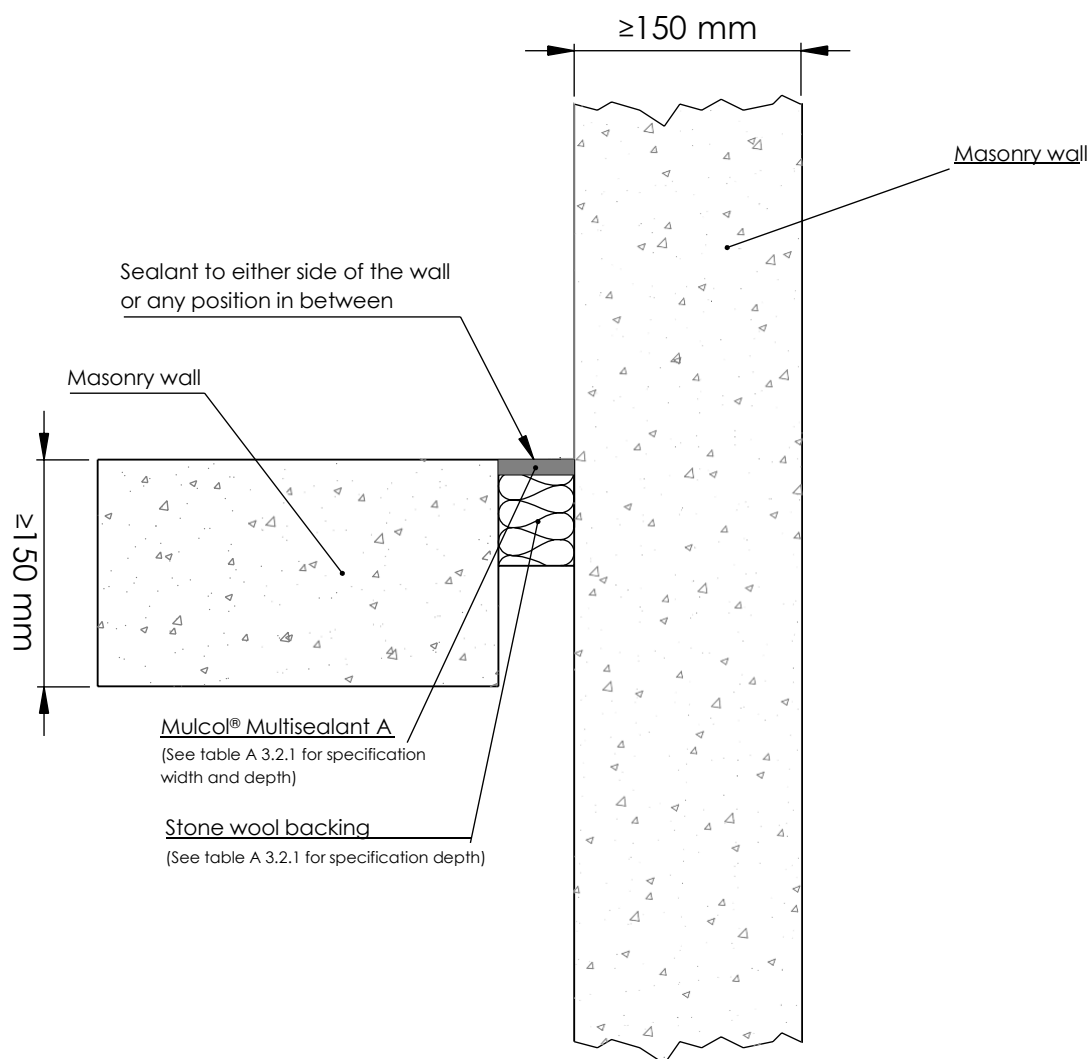
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

RW-JNT-MSA1.2.2

A4



A 3.2.1 Linear joint or gap seal, between vertical end off masonry wall and masonry wall

Substrate	Classification	Sealant depth	Backing	Maximum seal
Masonry wall / Masonry or concrete wall	EI 120 - V - X - F - W 50	10 mm	60 mm Stone wool insulation, 33 kg/m ³	50 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

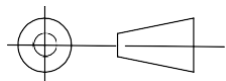
Linear joint or gap seals

Mulcol® Multisealant A

Rigid floor construction according to I.2.1

MULCOL
FIRE PROTECTION

American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

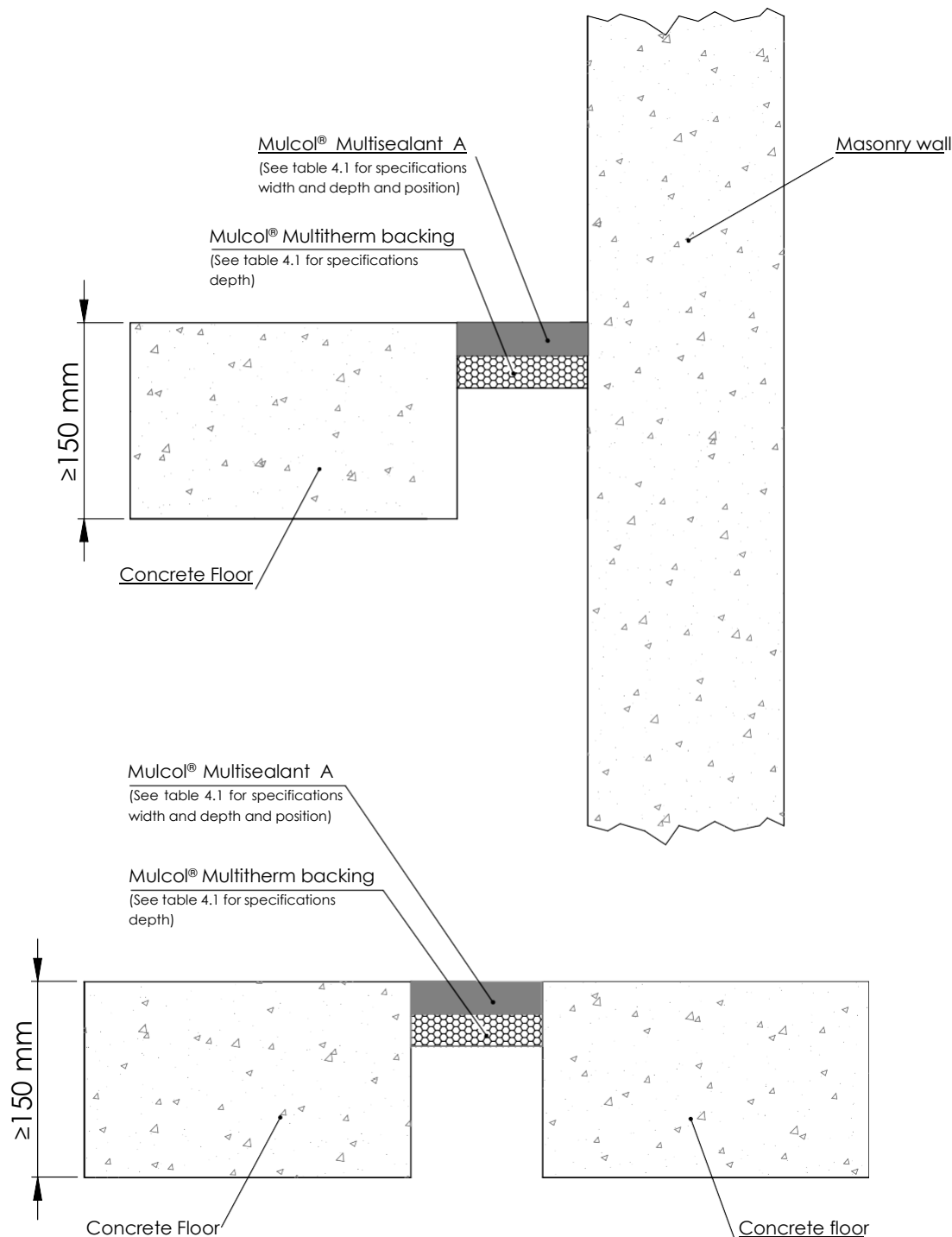
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

RF-JNT-MSA1.5.2

A4



A 4.1 Linear joint or gap seal, between floor slabs or between floor slab and wall

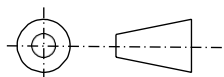
Substrate	Classification	Sealant depth	Backing	Maximum seal
Concrete floor / Concrete floor	E 120 - H - X - F - W 00 to 100 EI 60 - H - X - F W 00 to 100	25 mm (any position)	25 mm Mulcol® Multitherm Backing	100 mm
Concrete floor / Masonry wall	EI 180 - H - X - F - W 00 to 100	25 mm (Top face)	25 mm Mulcol® Multitherm Backing	100 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint or gap seals
Mulcol® Multisealant A
Rigid floor construction according to I.2.1



American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

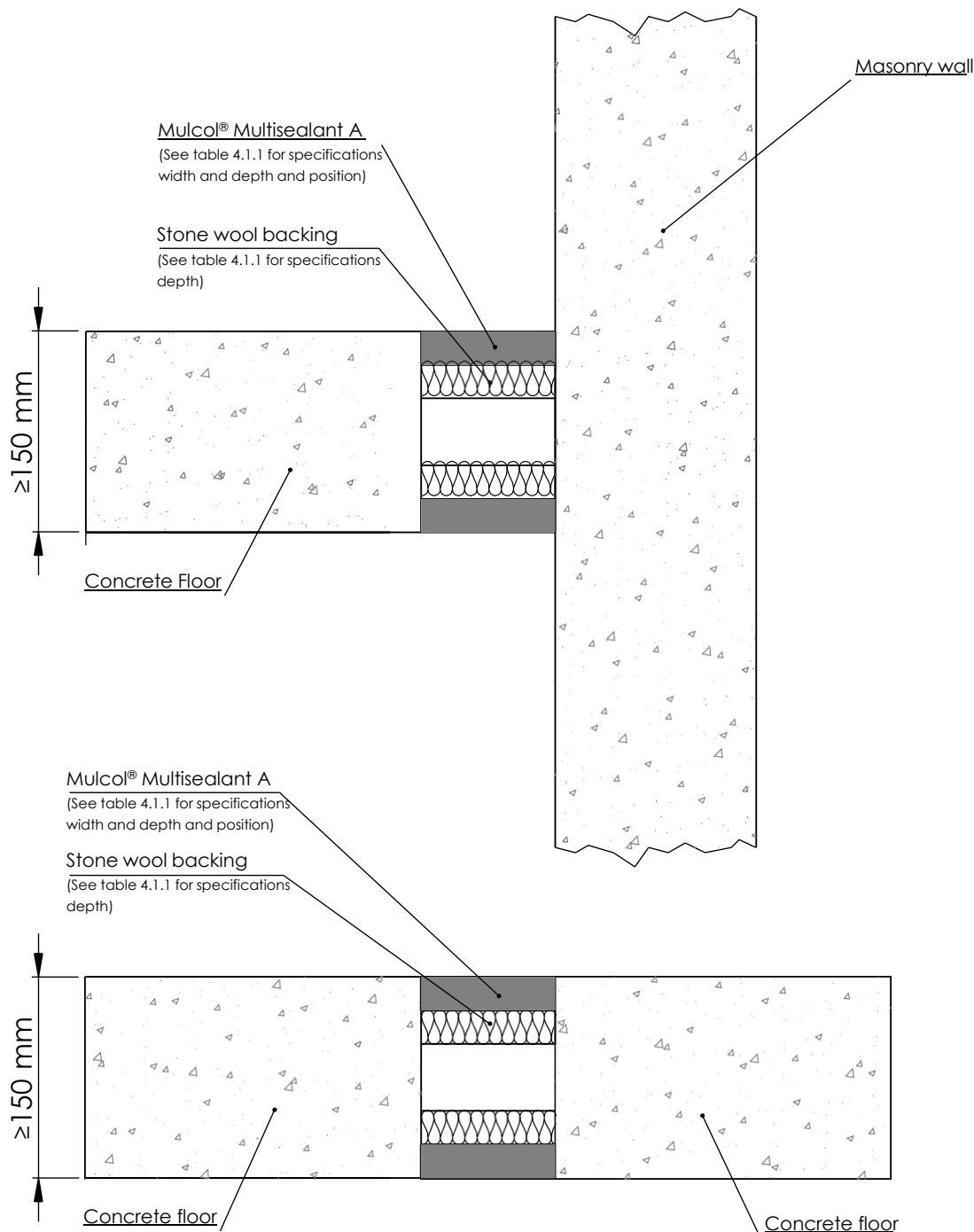
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

RF-JNT-MSA2.5.2

A4



A 4.1.1 Linear joint or gap seal, between floor slabs or between floor slab and wall

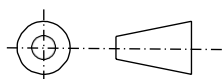
Substrate	Classification	Sealant depth	Backing	Maximum seal
Concrete floor / concrete floor or masonry wall	EI 120 - H - X - F - W 00 to 100	15 mm (Both sides)	25 mm Stone wool insulation, 40 kg/m ³	100 mm
Concrete floor / concrete floor or masonry wall	EI 180 - H - X - F - W 00 to 100	15 mm (Both sides)	25 mm Stone wool insulation, 140 kg/m ³	100 mm
Concrete floor / concrete floor or masonry wall	EI 240 - H - X - F - W 00 to 30	15 mm (Both sides)	25 mm Stone wool insulation, 35 kg/m ³	30 mm

Annex A - Resistance to fire classification - Mulcol® Multisealant A

Linear joint or gap seals
Mulcol® Multisealant A
Rigid floor construction according to I.2.1

MULCOL
FIRE PROTECTION

American projection



Scale : 1:5

Unit of measure : mm

Date : 15-2-2017

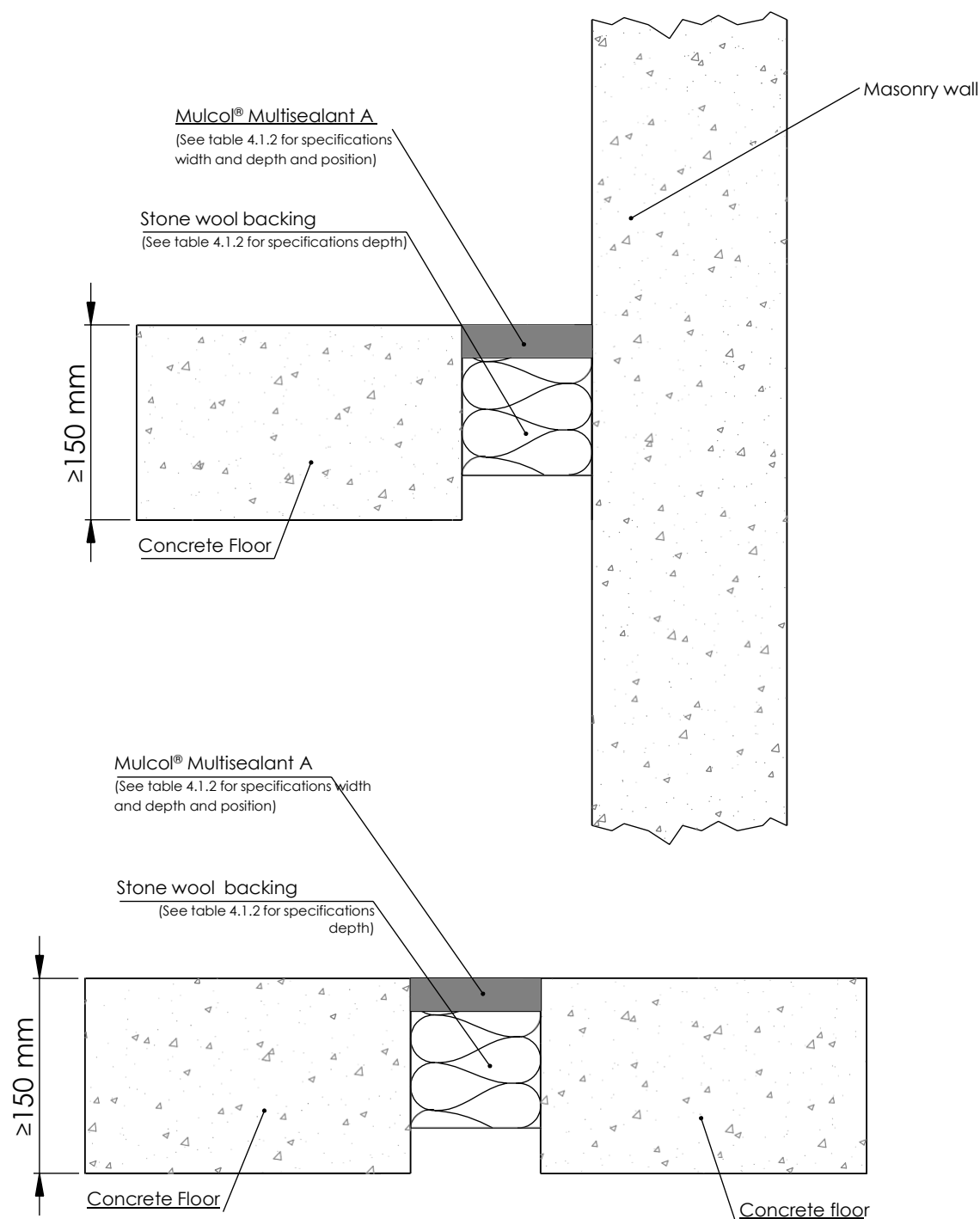
Company : Mulcol International B.V.

Department : Research & Development

Draftsman : R.M.

RF-JNT-MSA1.5.2

A4



A 4.1.2 Linear joint or gap seal, between floor slabs or between floor slab and wall

Substrate	Classification	Sealant depth	Backing	Maximum seal
Concrete floor / concrete floor or masonry wall	EI 240 - H - X - F - W 100	10 mm (Top face)	90 mm Stone wool insulation 33 kg/m ³	100 mm