

FC10057-001 TO [2018] 17 May 2018

Technical Opinion Summary



This is to certify that the specimen described below has been examined by BRANZ on behalf of the sponsor.

Sponsor

IPASSIVE NZ LIMITED
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Reference BRANZ Reports FC10057-001 TO [2018] 17 May 2018

Referenced Standard AS1530.4:2005/2014 and AS 4072.1-2005

Specimen Name: Nullifire B220 Mortar Penetration Seal Systems

Specimen Description: Nullifire B220 mortar has a nominal dry density of 1,000 kg/m³ which is used as a blank seal or as a seal around a variety of steel or copper pipes or cable tray and cable penetrations passing through concrete or masonry walls or concrete floors. The sealing systems will achieve the FRR as listed in the following Table 1 and Table 2 provided that the walls and floors can achieve at least the same FRR or higher than the penetration seal system.

Orientation: Exposure from either side of walls or the underside of floors.

The assessed results were as follows

As stated in Table 1 and Table 2 following

Issued by

A blue ink signature of M. E. Godkin.

M. E. Godkin
Senior Fire Testing Engineer

Reviewed by

A blue ink signature of E. Soja.

E. Soja
Senior Fire Safety Engineer

Regulatory authorities are advised to examine test reports before approving any product.

Issue Date

17 May 2018

Expiry Date

17 May 2023

Table 1: Nullifire B220 mortar compound sealing systems in floor slabs

Seal configuration	Service description	Integrity (minutes)	Insulation (minutes)
Nullifire B220 mortar, 50 mm thick cast on top of a layer of 50 mm thick Rocksil LR140 mineral wool slab, of nominal density 128 kg/m ³ , in the opening in the floor	Blank seal	300	180
	Steel pipe 25 mm dia. or less	300	60
	Steel pipe 108 mm dia. or less	300	30
	Copper pipe 108 mm dia. or less	300	0
	Cable tray with up to 16 x 13 mm, 3 x 35 mm, and 55 mm dia. cables	60	60
Nullifire B220 mortar, 100 mm thick cast on top of a layer of 50 mm thick Rocksil LR140 mineral wool slab, of nominal density 128 kg/m ³ , in the opening in the floor	Blank seal	300	120
	Steel pipe 25 mm dia. or less	300	120
	Steel pipe 42 mm to 61 mm dia.	300	60
	Steel pipe 108 mm dia.	300	30
	Copper pipe 108 mm dia. or less	300	0
	Cable tray with up to 16 x 13 mm, 3 x 35 mm, and 55 mm dia. cables	90	90
Nullifire B220 mortar, 150 mm thick cast on top of a layer of 50 mm thick Rocksil LR140 mineral wool slab, of nominal density 128 kg/m ³ , in the opening in the floor	Blank seal	240	240
	Steel pipe 25 mm dia. or less	240	120
	Steel pipe 42 mm to 61 mm dia.	240	60
	Steel pipe 108 mm dia.	240	30
	Copper pipe 108 mm dia. or less	240	0
	Cable tray with up to 16 x 13 mm, 3 x 35 mm, and 55 mm dia. cables	240	90
Nullifire B220 mortar, 200 mm thick cast on top of a layer of 50 mm thick Rocksil LR140 mineral wool slab, of nominal density 128 kg/m ³ , in the opening in the floor	Blank seal	240	240
	Steel pipe 25 mm dia. or less	240	180
	Steel pipe 42 mm to 61 mm dia.	240	60
	Steel pipe 108 mm dia.	240	30
	Copper pipe 108 mm dia. or less	240	0
	Cable tray with up to 16 x 13 mm, 3 x 35 mm, and 55 mm dia. cables	240	90
Nullifire B220 mortar, 100 mm thick. cast on top of a layer of mineral wool shuttering in the opening in floor and, when mortar is set, the shuttering is removed	Blank seal	240	240
	Steel pipe 25 mm dia. or less	240	120
	Steel pipe 42 mm to 61 mm dia.	240	60
	Steel pipe 108 mm dia.	240	30
	Copper pipe 108 mm dia. or less	240	0
	Cable tray with up to 35 mm dia. cables	240	90

Table 2: Nullifire B220 mortar compound sealing systems in walls

Seal configuration	Service description	Integrity (minutes)	Insulation (minutes)
Nullifire B220 mortar, 25 mm thick, trowelled over each face of a layer of 50 mm thick Rocksil LR140 mineral wool slab, nominal density 128 kg/m ³ , in the opening in a wall	Blank seal	240	180
	Steel pipe 25 mm dia. or less	240	60
	Steel pipe 108 mm dia. or less	240	30
	Copper pipe 108 mm dia. or less	240	0
	Cable tray	240	120
	Cable tray with up to 16 x 13 mm, 3 x 35 mm, and 55 mm dia. cables	240	30
Nullifire B220 mortar, 50 mm thick, trowelled over each face of a layer of 50 mm thick Rocksil LR140 mineral wool slab, nominal density 128 kg/m ³ , in the opening in a wall	Blank seal	240	240
	Steel pipe 25 mm dia. or less	240	120
	Steel pipe 42 mm to 61 mm dia.	240	60
	Steel pipe 108 mm dia.	240	30
	Copper pipe 108 mm dia. or less	240	0
	Cable tray	240	120
	Cable tray with up to 16 x 13 mm, 3 x 35 mm, and 55 mm dia. cables	240	90
Nullifire B220 mortar, 100 mm thick, trowelled over a layer of mineral wool shuttering in the opening in the wall and, when set, the shuttering is removed	Blank seal	240	240
	Steel pipe 25 mm dia. or less	240	120
	Steel pipe 42 mm to 61 mm dia.	240	60
	Steel pipe 108 mm dia.	240	30
	Copper pipe 108 mm dia. or less	240	0
	Cable tray	240	120
	Cable tray with up to 16 x 13 mm, 3 x 35 mm, and 55 mm dia. cables	240	90