



Fire Protection Association New Zealand

# Register of Passive Fire Protection Products

ISSUE 1 | REVISION 1



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# Register of Passive Fire Protection Products

## 1. Introduction

This register of certified products ("Register") lists Passive Fire Protection systems that have been formally issued with a laboratory report in accordance to AS 4072.1 - 2005, AS 1530.4-2005.

The register also includes systems tested to latest AS 4072.1 - 2014 and AS 1530.4 - 2014 standards.

The Register is published by the Fire Protection Association (New Zealand) incorporated (FPANZ).

The Register has been produced for reference by:

- › Territorial Authorities
- › Fire Engineers
- › Architects
- › Consultants
- › Designers
- › Installation, maintenance and inspection contractors
- › Building contractors
- › Building owners
- › Accredited Inspection Bodies

The Register is intended to be used for both new and existing installations, to ensure code compliant products are being specified, consented, installed. The Register will provide an invaluable listing of code compliant products available to industry.

## 2. Legislative and Standards Background

All fire stopping systems (*fire stops*) to be specified and accepted as part of the building consent and inspection approvals process shall be in accordance with AS4072.1-2005. Fire test reports or *Variations subject to Formal Opinion* complying with the requirements of AS1530.4-2005 and AS4072.1-2005 shall be available upon request to support the system proposed and demonstrate on site installation where necessary.

## 3. Operation of the Register

The Register is self-regulating, each product/system supplier has submitted their product with the understanding that they will provide, upon request, the AS1530.4-2005 fire test or AS4072.1-2005 assessment report reference within their companies listing.

Any report featured in the Register of Passive Fire Protection Products will be within date.

Failure to issue the report upon request may result in that entry being removed from the Register.

## 4. Subscriptions and Updates

All enquiries regarding subscriptions, updates and copyright shall be referred to:

The Executive Director  
Fire Protection Association NZ Inc  
Private Box 302372, North Harbour  
Auckland 1330

Phone: (09) 414 4450  
Email: [fpanz@fireprotection.org.nz](mailto:fpanz@fireprotection.org.nz)

The Register of Passive Fire Protection Products is available solely as a PDF and can be accessed through the "downloads & files" at section at [www.fireprotection.org.nz](http://www.fireprotection.org.nz).

## 5. Charges

Charges will be made by FPANZ for new listings, and for the provision of the annual audit and amendment service as follows:

- › An initial inclusion fee of \$550.00
- › Listing fee per product entry per supplier or manufacturer
- › Annual review Fee \$950.00 per supplier or manufacturer

	FPANZ Members	Non FPANZ Members
1-150 entries	\$950	\$1330
151-300 entries	\$1450	\$2030
301-450 entries	\$1950	\$2730
> 451 entries	\$2450	\$3430
Additional entries	\$125	\$175

## 6. Annual Review

Technical and administrative reviews of the Register will be undertaken annually to revalidate its contents and enable deletion of obsolete products/systems, reports outside their validity date or non-trading manufactures/suppliers.

Manufacturers and suppliers who do not return the necessary documentation after three (3) requests and/or do not pay the applicable charge(s) detailed in section 5, will have their listing marked "OBSOLETE", and after 12 months deleted.

## 7. Copyright

Copyright if the Register is held by FPANZ as publisher. All rights are reserved. **The Register may not be copied or reproduced in any way, either in whole or in part, without the express permission of FPANZ.** Obtained through the Executive Director.

# Register of Passive Fire Protection Products

## 8. Responsibility

The individual manufacturers or suppliers are responsible for the Register listings and the accompanying fire test performance data. FPANZ simply publishes the individual systems for industry awareness purposes only.

## 9. Disclaimer

The Register details the listing status of products and components current at the time of issue. This listing status is subject to change without notice at any time.

The currency and validity of any particular copy of Register is dependent on multiple factors, including ongoing payment of subscription fees, postal services, and timely and correct filing of updates.

Listing in this Register does not imply any warranty whatsoever by the publishers or their technical advisors as to the field performance of products, systems or components listed.

Listing in this Register does not imply any responsibility whatsoever by the publishers or their technical advisors in regards to patents or other features or conditions applying in respect of any products, systems or components listed.

Neither the publishers nor their technical advisors, nor any of their officers or employees shall be liable to any person or company for anything contained or implied in, or omitted from, this Register or any update or any part of it.

## 10. Listing procedures and administration of the Register

All enquiries for listing, amendments, alterations and additions to listings shall be referred to FPANZ in the first instance for administration purposes:

The Executive Director  
Fire Protection Association NZ Inc  
Private Box 302372, North Harbour  
Auckland 1330  
Phone: (09) 414 4450  
Email: fpanz@fireprotection.org.nz

These details will then be passed on to an FPANZ approved listing body.

A formal Suppliers or manufacturers declaration will be required concerning the validity and accuracy of the reports detailed within the listing.

Listing is available to any supplier/manufacturer who meets the listing criteria.

Listing Criteria:

- ▶ AS1530.4 -2005 Fire Test Reports / AS4072.1 - 2005 Assessment Reports produced by ILAC accredited laboratories (International Laboratory Accreditation Cooperation).
- ▶ Fire Test Assessment reports in accordance with AS4072.1-2005
- ▶ Fire Test Reports in accordance with AS 1530.4-2005
- ▶ Reports are within date
- ▶ Reports featured in the Register not in the name of the listee must be accompanied by a manufacturers letter confirming the listee has permission to issue the report
- ▶ Suppliers / Manufactures agree to issue listed/ referenced test reports upon request

## 11. Manufacturer's Declaration

A Suppliers or Manufacturers Declaration is a form of self-certification. It requires the Supplier or Manufacturer to make a formal declaration and to hold and maintain a technical file capable of justifying this declaration if legally challenged.

Such technical file would hold information such as supporting fire test data forming part of any formal assessment listed within the Register.

A Supplier or Manufacturers Declaration shall:

- ▶ Be appropriately signed on official letterhead
- ▶ Constitute a formal declaration of compliance with the relevant requirements of the New Zealand Building Code
- ▶ Detail what products are covered
- ▶ Acknowledge that the FPANZ or their technical advisers and officers carry no liability or responsibility for the products performance in the field

# ANNEX 1 - Form of Manufacturer's Declaration of Compliance

The following Declaration of Compliance is required to be completed for all submissions. Except where expressly permitted below, no modification or variation to this Declaration will be accepted.

The wording shall be reproduced on official company/organisation letterhead with the appropriate details inserted [Where indicated thus]. Where alternatives are provided - viz manufacturer/importer, I/we etc., one alternative may be deleted as applicable.

## COMPANY LETTERHEAD

*Date*

*Address*

The Executive Director  
Fire Protection Association NZ Inc  
Private Box 302372, North Harbour  
Auckland 0751

## Declaration of Compliance

*On behalf of [Name of company] (Company), I confirm as follows:*

- 1. This Declaration of Compliance is made in respect of the product or products currently listed in the Passive Fire Protection Products Register and complies with the listing criteria as detailed in clause 10 page 4 of the register*
- 2. The Company acknowledges that the making of this Declaration is a condition to the Product being listed, or continuing to be listed in the Register*
- 3. The Company agrees and acknowledges that:*
  - (a) the FPANZ gives no warranty in respect of the Product; and*
  - (b) the FPANZ, its officers, employees, contractors or agents shall not in any way be liable or responsible, whether to the Company or to third parties for the performance of the Product.*

*The Company agrees and acknowledges that:*

- (a) any listed product not complying with the requirements detailed in clause 10 can be removed from the register at the discretion of the FPANZ board without redress by from the manufacturer/importer.*

The register is intended to be a benefit to industry to improve information transparency and building code compliance

**Yours faithfully**

*Name of Company*

\_\_\_\_\_  
*Name of duly authorised signatory*

\_\_\_\_\_  
*Title*

## ANNEX 2 - Form for Annual Revalidation

A copy of the current Register listing is to be sent by FPANZ to each manufacturer annually to obtain administrative revalidation of their listing and contact details, and to ensure that the manufacturer is still trading.

Each manufacturer shall be required to respond on official letterhead according to the following form:

### REVALIDATION OF LISTING IN PASSIVE FIRE PROTECTION PRODUCTS REGISTER

I, on behalf of \_\_\_\_\_ (name of Company) confirm that since the date of initial listing, or since the date of the last revalidation whichever is most recent, all published systems comply with the requirements detailed in clause 10 of the register.

I attach a copy of our current register listings, signed on the front page and initialed on all other pages.

Yours faithfully  
Name of Company

Name of duly authorised signatory

Title

# Section A



## Section A: Firestopping Products/Solutions

- › **3M NEW ZEALAND LTD Industrial & Tapes Division**
  - Blank Opening ..... 8-9
  - Electrical Penetration Services ..... 9-16
  - Non-Insulated Non-Combustible Pipes ..... 16-20
  - Insulated Non-Combustible Pipes.....20-21
  
- › **RYANFIRE PRODUCTS LTD**
  - Non-Insulated Non-Combustible Pipes .....22-24
  - Insulated Non-Combustible Pipes.....24-27
  - Non-Insulated Combustible Pipes.....27-32
  - Electrical Penetration Services .....32-41
  - Seismic/Construction Joints .....42-48
  - HVAC ..... 48
  - Mixed Service Penetration Devices .....48-49
  - Miscellaneous Penetrations .....49-50

## Section A - Fire Stopping Products/Solutions

### 3M NEW ZEALAND LTD Industrial & Tapes Division

Manufacturer Code: 3M

94 Apollo Drive  
Rosedale  
Auckland 0632

Ph: 0800 474 787  
Email: 3mnzitb@mmm.com  
www.3m.co.nz/fireprotection

The products listed in this register have all been tested to AS1530.4-2005 or Assessed to AS 4072.1-2005 as referenced within the New Zealand Building Code.

Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>BLANK OPENING</b>						
Blank	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/240/120	Max opening 100 mm diameter	RIR FCO-3220F
Blank	Floor	150 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/240/180	Max opening 100 mm diameter	RIR FCO-3220F
Blank	Floor	170 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/240/240	Max opening 100 mm diameter	RIR FCO-3220F
Blank	Floor	120 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/180/120	Max opening 110 mm diameter	RIR FCO-3219D
Blank	Floor	150 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/180/180	Max opening 110 mm diameter	RIR FCO-3219D
Blank	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/90	Max opening 425 x 300 mm	RIR FCO-3217C
Blank	Wall	100 mm Plasterboard / Hollow Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Max opening 100 mm diameter	RIR FCO-3220F
Blank	Wall	100 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Max opening 100 mm diameter	RIR FCO-3220F
Blank	Wall	150 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/180/180	Max opening 100 mm diameter	RIR FCO-3220F
Blank	Wall	170 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/240/240	Max opening 100 mm diameter	RIR FCO-3220F
Blank	Wall	100 mm Plasterboard / Hollow Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Max opening 100 mm diameter	RIR FCO-3219D
Blank	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Max opening 100 mm diameter	RIR FCO-3219D
Blank	Wall	150 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/180/180	Max opening 100 mm diameter	RIR FCO-3219D
Blank	Wall	170 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/240/240	Max opening 100 mm diameter	RIR FCO-3219D
Blank	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Max opening 800 x 600 mm	RIR FCO-3217C



## Section A - Fire Stopping Products/Solutions

### 3M NEW ZEALAND LTD Industrial & Tapes Division

Manufacturer Code: 3M

94 Apollo Drive  
Rosedale  
Auckland 0632

Ph: 0800 474 787  
Email: 3mnzitb@mmm.com  
www.3m.co.nz/fireprotection

The products listed in this register have all been tested to AS1530.4-2005 or Assessed to AS 4072.1-2005 as referenced within the New Zealand Building Code.

Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>BLANK OPENING</b>						
Blank	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Max opening 800 x 600 mm	RIR FCO-3217C
Blank	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Max opening 425 x 300 mm	RIR FCO-3217C
<b>ELECTRICAL PENETRATION SERVICES</b>						
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/180/-	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side)	-/180/90	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2 ) Max opening 250 x 140 mm	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side)	-/180/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Communication Cables only	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/240/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D2) Max opening 250 x 140 mm	RIR FCO-3220F
Communication Cables only	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side)	-/240/90	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D2) Max opening 250 x 140 mm	RIR FCO-3220F
Communication Cables only	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side)	-/240/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D2) Max opening 250 x 140 mm	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side)	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D

## Section A - Fire Stopping Products/Solutions

### 3M NEW ZEALAND LTD Industrial & Tapes Division

Manufacturer Code: 3M

94 Apollo Drive  
Rosedale  
Auckland 0632

Ph: 0800 474 787  
Email: 3mnzitb@mmm.com  
www.3m.co.nz/fireprotection

The products listed in this register have all been tested to AS1530.4-2005 or Assessed to AS 4072.1-2005 as referenced within the New Zealand Building Code.

Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>ELECTRICAL PENETRATION SERVICES</b>						
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side)	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D
Communication Cables only	Floor	120 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/180/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D2) Max opening 250 x 140 mm	RIR FCO-3219D
Communication Cables only	Floor	120 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side)	-/180/90	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D2) Max opening 250 x 140 mm	RIR FCO-3219D
Communication Cables only	Floor	120 mm Concrete	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side)	-/180/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D2) Max opening 250 x 140 mm	RIR FCO-3219D
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ CP25WB+ Sealant	-/180/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 425 x 300 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ CP25WB+ Sealant Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300mm, each side)	-/180/90	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 425 x 300 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ CP25WB+ Sealant Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600mm, each side )	-/180/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 425 x 300 mm	RIR FCO-3217C
Power Supply cables only	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ CP25WB+ Sealant	-/180/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 425 x 300 mm	RIR FCO-3217C
Power Supply cables only	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ CP25WB+ Sealant Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300mm, each side )	-/180/90	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 425 x 300 mm	RIR FCO-3217C

## Section A - Fire Stopping Products/Solutions

### 3M NEW ZEALAND LTD Industrial & Tapes Division

Manufacturer Code: 3M

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Auckland 0632

Ph: 0800 474 787  
Email: 3mnzitb@mmm.com  
www.3m.co.nz/fireprotection

The products listed in this register have all been tested to AS1530.4-2005 or Assessed to AS 4072.1-2005 as referenced within the New Zealand Building Code.

Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>ELECTRICAL PENETRATION SERVICES</b>						
Power Supply cables only	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ CP25WB+ Sealant Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600mm, each side )	-/180/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 425 x 300 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	116 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Wall	100 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Wall	100 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Power Supply cables only	Wall	116 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/180/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3220F
Power Supply cables only	Wall	100 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3220F
Power Supply cables only	Wall	100 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3220F
Single Power Supply cable	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Single Cables up to 20mm diameter Min 10 mm annular gap, Max opening 50 mm diameter	RIR FCO-3220F
Bundle of Power Cables	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 150 mm, each side )	-/120/120	Cable Bundles up to 80mm diameter Min 15 mm annular gap	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Wall	116 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2 ) Max opening 250 x 140 mm	RIR FCO-3219D

## Section A - Fire Stopping Products/Solutions

### 3M NEW ZEALAND LTD Industrial & Tapes Division

Manufacturer Code: 3M

94 Apollo Drive  
Rosedale  
Auckland 0632

Ph: 0800 474 787  
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www.3m.co.nz/fireprotection

The products listed in this register have all been tested to AS1530.4-2005 or Assessed to AS 4072.1-2005 as referenced within the New Zealand Building Code.

Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>ELECTRICAL PENETRATION SERVICES</b>						
Mixture of Power Supply & Communication Cables	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D
Mixture of Power Supply & Communication Cables	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D
Power Supply cables only	Wall	116 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3219D
Power Supply cables only	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3219D
Power Supply cables only	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3219D
Single Power Supply cable	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Single Cables up to 20mm diameter Min 10 mm annular gap, Max opening 50 mm diameter	RIR FCO-3219D
Bundle of Power Cables	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 150 mm, each side )	-/120/120	Cable Bundles up to 80mm diameter Min 15 mm annular gap	RIR FCO-3219D
Mixture of Power Supply & Communication Cables	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300mm, each side )	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600mm, each side )	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C

## Section A - Fire Stopping Products/Solutions

### 3M NEW ZEALAND LTD Industrial & Tapes Division

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Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>ELECTRICAL PENETRATION SERVICES</b>						
Single Power Supply cable	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/120	Single Cables up to 20mm diameter Max opening 800 x 600 mm	RIR FCO-3217C
Bundle of Power Cables	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 150mm, each side )	-/120/120	Cable Bundles up to 80mm diameter Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300mm, each side )	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600mm, each side )	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Single Power Supply cable	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/120	Single Cables up to 20mm diameter Max opening 800 x 600 mm	RIR FCO-3217C
Bundle of Power Cables	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 150mm, each side )	-/120/120	Cable Bundles up to 80mm diameter Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	116 mm Plasterboard / Hollow Mansonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Wall	100 mm Plasterboard / Hollow Mansonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Wall	100 mm Fire Rated Plasterboard	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3220F
Power Supply cables only	Wall	116 mm Plasterboard / Hollow Mansonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/180/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3220F

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<b>ELECTRICAL PENETRATION SERVICES</b>						
Power Supply cables only	Wall	100 mm Plasterboard / Hollow Mansorny	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3220F
Power Supply cables only	Wall	100 mm Plasterboard / Hollow Mansorny	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3220F
Single Power Supply cable	Wall	100 mm Plasterboard / Hollow Mansorny	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Single Cables up to 20mm diameter Min 10 mm annular gap, Max opening 50 mm diameter	RIR FCO-3220F
Bundle of Power Cables	Wall	100 mm Plasterboard / Hollow Mansorny	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 150 mm, each side )	-/120/120	Cable Bundles up to 80mm diameter Min 15 mm annular gap	RIR FCO-3220F
Mixture of Power Supply & Communication Cables	Wall	116 mm Plasterboard / Hollow Mansorny	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D
Mixture of Power Supply & Communication Cables	Wall	100 mm Plasterboard / Hollow Mansorny	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D
Mixture of Power Supply & Communication Cables	Wall	100 mm Fire Rated Plasterboard	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 250 x 140 mm	RIR FCO-3219D
Power Supply cables only	Wall	116 mm Plasterboard / Hollow Mansorny	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/180/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3219D
Power Supply cables only	Wall	100 mm Plasterboard / Hollow Mansorny	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3219D
Power Supply cables only	Wall	100 mm Plasterboard / Hollow Mansorny	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1) Max opening 375 x 110 mm	RIR FCO-3219D

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<b>ELECTRICAL PENETRATION SERVICES</b>						
Single Power Supply cable	Wall	100 mm Plasterboard / Hollow Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/120	Single Cables up to 20mm diameter Min 10 mm annular gap, Max opening 50 mm diameter	RIR FCO-3219D
Bundle of Power Cables	Wall	100 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 150mm, each side )"	-/120/120	Cable Bundles up to 80mm diameter Min 15 mm annular gap	RIR FCO-3219D
Mixture of Power Supply & Communication Cables	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300mm, each side )"	-/120/60	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Mixture of Power Supply & Communication Cables	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600mm, each side )"	-/120/120	Cable Bundles , with or without Cable Trays (AS1530.4 Appendix D1 & D2) Max opening 800 x 600 mm	RIR FCO-3217C
Single Power Supply cable	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/120	Single Cables up to 20mm diameter Max opening 800 x 600 mm	RIR FCO-3217C
Bundle of Power Cables	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows with 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 150mm, each side )	-/120/120	Cable Bundles up to 80mm diameter Max opening 800 x 600 mm	RIR FCO-3217C
uPVC Conduit empty	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Ultra GS Intumescent Strip 3M Foil Tape 425 3M Moldable Putty MP+	-/120/120	Single uPVC conduits up to 27mm diameter	RIR FCO-3220F
uPVC Conduit empty	Wall	100 mm Concrete / Solid Masonry	3M Ultra GS Intumescent Strip 3M Foil Tape 425 3M Moldable Putty MP+	-/120/120	Single PVC conduits up to 27mm diameter	RIR FCO-3220F
uPVC Conduit empty	Wall	100 mm Plasterboard / Hollow Masonry	"3M Ultra GS Intumescent Strip 3M Foil Tape 425 3M Moldable Putty MP+	-/120/120	Single uPVC conduits up to 27mm diameter	RIR FCO-3220F

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<b>ELECTRICAL PENETRATION SERVICES</b>						
uPVC Conduit with optic fibre	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Ultra GS Intumescent Strip 3M Foil Tape 425 3M Moldable Putty MP+	-/120/120	Single uPVC Conduits up to 27mm diameter (with up to 4 optic fibre cables)	RIR FCO-3220F
uPVC Conduit with optic fibre	Wall	100 mm Concrete / Solid Masonry	3M Ultra GS Intumescent Strip 3M Foil Tape 425 3M Moldable Putty MP+	-/120/120	Single uPVC Conduits up to 27mm diameter (with up to 4 optic fibre cables)	RIR FCO-3220F
uPVC Conduit with optic fibre	Wall	100 mm Plasterboard / Hollow Masonry	3M Ultra GS Intumescent Strip 3M Foil Tape 425 3M Moldable Putty MP+	-/120/120	Single uPVC Conduits up to 27mm diameter (with up to 4 optic fibre cables)	RIR FCO-3220F
<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>						
Copper pipes	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap	RIR FCO-3220F
Copper pipes	Floor	120 mm Concrete	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/90	Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap	RIR FCO-3220F
Copper pipes	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 15mm diameter x 0.91mm wall thickness Max opening 425 x 300 mm	RIR FCO-3217C
Copper pipes	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Up to 15mm diameter x 0.91mm wall thickness Max opening 425 x 300 mm	RIR FCO-3217C
Copper pipes	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Up to 15mm diameter x 0.91mm wall thickness Max opening 425 x 300 mm	RIR FCO-3217C
Steel pipes	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 34mm diameter x 3.5mm wall thickness Max opening 425 x 300 mm	RIR FCO-3217C
Steel pipes	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Up to 34mm diameter x 3.5mm wall thickness Max opening 425 x 300 mm	RIR FCO-3217C



## Section A - Fire Stopping Products/Solutions

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Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>						
Steel pipes	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Up to 34mm diameter x 3.5mm wall thickness Max opening 425 x 300 mm	RIR FCO-3217C
Copper pipes	Wall	100 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap	RIR FCO-3220F
Copper pipes	Wall	100 mm Concrete / Solid Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/90	Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap	RIR FCO-3220F
Copper pipes	Wall	100 mm Plasterboard / Hollow Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap	RIR FCO-3220F
Copper pipes	Wall	100 mm Plasterboard / Hollow Masonry	3M Moldable Putty MP+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/90	Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap	RIR FCO-3220F
Copper pipes	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap	RIR FCO-3219D
Copper pipes	Wall	100 mm Concrete / Solid Masonry	"3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/90	"Up to 200mm diameter, 2.05 mm max wall thickness Max 10 mm annular gap"	RIR FCO-3219D
Copper pipes	Wall	150 mm Plasterboard / Hollow Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	"Up to 200mm diameter, 2.05 mm max wall thickness Max 5 mm annular gap"	RIR FCO-3219D
Copper pipes	Wall	150 mm Plasterboard / Hollow Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/90	"Up to 200mm diameter, 2.05 mm max wall thickness Max 5 mm annular gap"	RIR FCO-3219D
Copper pipes	Wall	116 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Up to 15mm diameter x 0.91mm wall thickness Max opening 65 mm diameter	RIR FCO-3219D

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<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>						
Copper pipes	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 15mm diameter x 0.91mm wall thickness Max opening 65 mm diameter	RIR FCO-3219D
Copper pipes	Wall	100 mm Concrete / Solid Masonry	"3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Up to 15mm diameter x 0.91mm wall thickness Max opening 65 mm diameter	RIR FCO-3219D
Copper pipes	Wall	150 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/240/30	Up to 15mm diameter x 0.91mm wall thickness Max opening 65 mm diameter	RIR FCO-3219D
Copper pipes	Wall	150 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/240/60	Up to 15mm diameter x 0.91mm wall thickness Max opening 65 mm diameter	RIR FCO-3219D
Steel pipes	Wall	116 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/120/30	Up to 34 mm diameter, with 3.5 mm pipe wall thickness, up to 114 mm diameter pipe wall thickness, Max 35 mm annular gap	RIR FCO-3219D
Steel pipes	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 34 mm diameter, with 3.5 mm pipe wall thickness, up to 114 mm diameter pipe wall thickness, Max 35 mm annular gap	RIR FCO-3219D
Steel pipes	Wall	100 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Up to 34 mm diameter, with 3.5 mm pipe wall thickness, up to 114 mm diameter pipe wall thickness, Max 35 mm annular gap	RIR FCO-3219D
Steel pipes	Wall	150 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material.	-/240/30	Up to 34 mm diameter, with 3.5 mm pipe wall thickness, up to 114 mm diameter pipe wall thickness, Max 35 mm annular gap	RIR FCO-3219D
Steel pipes	Wall	150 mm Concrete / Solid Masonry	3M Intumescent Sealant IC 15WB+ 100 kg/m3 Mineral Wool backing material. Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/240/120	Up to 34 mm diameter, with 3.5 mm pipe wall thickness, up to 114 mm diameter pipe wall thickness, Max 35 mm annular gap	RIR FCO-3219D

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Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>						
Copper pipes	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/120/60	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/120/120	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C

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The products listed in this register have all been tested to AS1530.4-2005 or Assessed to AS 4072.1-2005 as referenced within the New Zealand Building Code.

Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>						
Steel pipes	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	"Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Up to 15mm diameter x 0.91mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 300 mm, each side )	-/180/60	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+ Fire Barrier Duct Wrap 615+ ( Single Layer, Wrap length 600 mm, each side )	-/180/120	Up to 34mm diameter x 3.5mm wall thickness Max opening 800 x 600 mm	RIR FCO-3217C
<b>INSULATED NON-COMBUSTIBLE PIPES</b>						
Copper pipes with Armaflex	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 15 mm diameter x 0.91 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 425 x 300 mm	RIR FCO-3217C

## Section A - Fire Stopping Products/Solutions

### 3M NEW ZEALAND LTD Industrial & Tapes Division

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Service Penetration	Orientation	Substrate	System Description	FRR	Test Dims	Report Ref.
<b>INSULATED NON-COMBUSTIBLE PIPES</b>						
Steel pipes with Armaflex	Floor	120 mm Concrete	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 34 mm diameter x 3.5 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 425 x 300 mm	RIR FCO-3217C
Copper pipes with Armaflex	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 15 mm diameter x 0.91 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes with Armaflex	Wall	100 mm Concrete / Solid Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 34 mm diameter x 3.5 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes with Armaflex	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Up to 15 mm diameter x 0.91 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes with Armaflex	Wall	116 mm Plasterboard / Hollow Masonry	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/120/30	Up to 34 mm diameter x 3.5 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 800 x 600 mm	RIR FCO-3217C
Copper pipes with Armaflex	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 15 mm diameter x 0.91 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 800 x 600 mm	RIR FCO-3217C
Steel pipes with Armaflex	Wall	75 mm Concrete / Solid Masonry / Hebel	3M Fire Barrier Pillows 3M Moldable Putty MP+	-/180/30	Up to 34 mm diameter x 3.5 mm wall thickness, with 19 mm thick Armaflex through the seal, Max opening 800 x 600 mm	RIR FCO-3217C

## Section A - Fire Stopping Products/Solutions

### RYANFIRE PRODUCTS LTD

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Service Penetration	Orientation	Substrate	System Description	FRR	Specimen Size	Report No.	ID/Ref
<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>							
COPPER/STEEL PIPES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP / INTUMASTIC / ROCKWOOL SLEEVE	/120/120	200MM DIA PIPE	23671.04	62
COPPER/STEEL PIPES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP / INTUMASTIC / ROCKWOOL SLEEVE	/120/120	200MM DIA PIPE	23671.04	59
COPPER/STEEL PIPES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	150MM DIA PIPE	23671.04	57
BRASS PIPES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	100MM DIA PIPE	23671.04	58
STEEL PIPES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	40MM DIA PIPE	23671.04	22
STEEL PIPES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/90/90	300MM DIA PIPE	23671.04	21A
STEEL PIPES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	300MM DIA PIPE	23671.04	21B
COPPER PIPES	WALL	110MM THICK WALL - GIB / MASONRY / HEBEL / SPEEDWALL / CLT	INTUBATT (SINGLE LAYER CLOSED CAVITY) / INTUMASTIC	/120/0	50MM DIA PIPE	34088500.9	TABLE 4
COPPER PIPES	WALL	110MM THICK WALL - GIB / MASONRY / HEBEL / SPEEDWALL / CLT	INTUBATT (SINGLE LAYER CLOSED CAVITY) / INTUMASTIC	/120/60	34MM DIA PIPE	34088500.9	TABLE 4
STEEL PIPES	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC	/60/30	87MM DIA PIPE	35084000.2	1
STEEL PIPES	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC	/60/30	87MM DIA PIPE	35084000.2	2
COPPER/STEEL PIPES	WALL	110MM THICK WALL - GIB / MASONRY / HEBEL / 78MM THICK SPEEDWALL / CLT	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC	/240/0	150MM DIA PIPE	34088500.9	V27
BRASS PIPES	WALL	110MM THICK WALL - GIB / MASONRY / HEBEL / 78MM THICK SPEEDWALL / CLT	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC	/240/0	100MM DIA PIPE	34088500.9	V26
COPPER PIPES	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/60	67MM DIA PIPE	52208000.1	13
COPPER/STEEL PIPES	WALL	110MM THICK WALL - GIB / MASONRY / HEBEL / 78MM THICK SPEEDWALL / CLT	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC / PENOWRAP	/240/120	150MM DIA PIPE	34088500.9	V27
BRASS PIPES	WALL	110MM THICK WALL - GIB / MASONRY / HEBEL / 78MM THICK SPEEDWALL / CLT	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC / PENOWRAP	/240/120	100MM DIA PIPE	34088500.9	V26
STEEL PIPES	WALL	130MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC	/120/60	220MM DIA PIPE	35084000.2	5
STEEL PIPES	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / PENOWRAP	/60/60	50MM DIA PIPE	FCO-3228	SP17

## Section A - Fire Stopping Products/Solutions

### RYANFIRE PRODUCTS LTD

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Service Penetration	Orientation	Substrate	System Description	FRR	Specimen Size	Report No.	ID/Ref
<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>							
STEEL PIPES	WALL	130MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC	/120/90	60MM DIA PIPE	35084000.2	6
COPPER PIPES	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUSIL	/120/0	15MM DIA PIPE	35256800	1
COPPER PIPES	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUSIL	/120/0	15MM DIA PIPE	35256800	2
COPPER PIPES	WALL	128MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC / ROCKWOOL SLEEVE	/120/120	152MM DIA PIPE	35084000.2	7
COPPER/STEEL PIPES	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC / ROCKWOOL SLEEVE	/120/120	200MM DIA PIPE	340885000.9	V29
STEEL PIPES	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC / PENOWRAP	/90/90	300MM DIA PIPE	340885000.9	V66
STEEL PIPES	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT (ONE LAYER EITHER SIDE OF WALL) / INTUMASTIC / PENOWRAP	/120/120	300MM DIA PIPE	340885000.9	V67
STEEL PIPES	WALL	150MM THICK MASONRY WALLS	INTUCOMPOUND / ROCKWOOL SLEEVE	/240/180	170MM DIA PIPE	35084000.2	97
COPPER PIPES	WALL	150MM THICK MASONRY WALLS	INTUCOMPOUND / ROCKWOOL SLEEVE	/240/60	108MM DIA PIPE	35084000.2	98
STEEL PIPES	CEILING	26MM THICK FR GIB	INTUMASTIC	/60/0	60MM DIA PIPE	35256800	3
COPPER PIPES	CEILING	26MM THICK FR GIB	INTUMASTIC	/60/0	42MM DIA PIPE	35256800	4
STEEL PIPES	CEILING	26MM THICK FR GIB	INTUBATT / INTUMASTIC	/60/0	50MM DIA PIPE	35256800	5
STEEL PIPES	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / INTUMASTIC	/120/30	150MM DIA PIPE	46812800.1	6
COPPER PIPES	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / INTUMASTIC	/120/0	100MM DIA PIPE	46813300.1	6
COPPER / STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP / INTUMASTIC / ROCKWOOL SLEEVE	/120/120	200MM DIA PIPE	23671.04	62
COPPER / STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	150MM DIA PIPE	23671.04	57
BRASS PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	100MM DIA PIPE	23671.04	58
COPPER / STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	150MM DIA PIPE	23671.04	60
BRASS PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP / PENOWRAP	/120/120	100MM DIA PIPE	23671.04	61
STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC / PENOWRAP	/120/120	40MM DIA PIPE	23671.04	39
STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC / PENOWRAP	/90/90	300MM DIA PIPE	23671.04	32A
STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC / PENOWRAP	/90/90	300MM DIA PIPE	23671.04	32A
STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC / PENOWRAP	/120/120	300MM DIA PIPE	23671.04	32B
STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC / PENOWRAP	/120/120	300MM DIA PIPE	23671.04	32B

## Section A - Fire Stopping Products/Solutions

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Service Penetration	Orientation	Substrate	System Description	FRR	Specimen Size	Report No.	ID/Ref
<b>NON-INSULATED NON-COMBUSTIBLE PIPES</b>							
COPPER / STEEL PIPES	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP / INTUMASTIC / ROCKWOOL SLEEVE	/120/120	200MM DIA PIPE	23671.04	59
BRASS PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT	/180/0	100MM DIA PIPE	340885000.9	H15
BRASS PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / PENOWRAP	/180/120	100MM DIA PIPE	340885000.9	H15
COPPER / STEEL PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT	/180/0	210MM DIA PIPE	340885000.9	H16
COPPER / STEEL PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / PENOWRAP	/180/120	210MM DIA PIPE	340885000.9	H16
COPPER / STEEL PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / ROCKWOOL SLEEVE	/120/120	200MM DIA PIPE	340885000.9	H17
COPPER PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INSULATION SLEEVE	/120/60	25MM DIA PIPE	340885000.9	H31
STEEL PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / PENOWRAP	/90/90	300MM DIA PIPE	340885000.9	H47
STEEL PIPES	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / PENOWRAP	/120/120	300MM DIA PIPE	340885000.9	H48
COPPER PIPES	FLOOR	120MM THICK CONCRETE	INTUBATT / INSULATION SLEEVE	/90/60	150MM DIA PIPE	35319300	3
COPPER PIPES	FLOOR	120MM THICK CONCRETE	INTUBATT / ARMAFLEX SLEEVE	/120/120	25MM DIA PIPE	2600703	5
COPPER PIPES	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUMASTIC	/180/0	160MM DIA PIPE	2600703.2A	A
BRASS PIPES	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUMASTIC	/180/0	100MM DIA PIPE	2600703.2A	B
COPPER PIPES	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / ROCKWOOL SLEEVE	/240/240	15MM DIA PIPE	35084000.2	105
STEEL PIPES	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / ROCKWOOL SLEEVE	/240/90	170MM DIA PIPE	35084000.2	101
COPPER PIPES	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / ROCKWOOL SLEEVE	/240/30	108MM DIA PIPE	35084000.2	102
STEEL PIPES	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / ROCKWOOL SLEEVE	/240/240	40MM DIA PIPE	35084000.2	103
STEEL PIPES	FLOOR	150MM THICK CONCRETE	INTUMASTIC / ROCKWOOL SLEEVE	/120/90	49MM DIA PIPE	35084000.2	3
STEEL PIPES	FLOOR	150MM THICK CONCRETE	INTUBATT (SINGLE LAYER)	/30/0	220MM DIA PIPE	35319300	1
STEEL PIPES	FLOOR	150MM THICK CONCRETE	INTUBATT	/120/30	160MM DIA PIPE	35319300	2
STEEL PIPES	FLOOR	150MM THICK CONCRETE	INTUBATT	/120/0	220MM DIA PIPE	35084000.2	4
<b>INSULATED NON-COMBUSTIBLE PIPES</b>							
COBRAFLX PIPE / 25MM THICK ARMAFLEX	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / RF COLLAR	/120/120	16 X 8MM DIA PIPES	340885000.9	V45
COPPER PIPE / 40MM THICK ROCKWOOL	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	22MM DIA PIPE	340885000.9	V30



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Service Penetration	Orientation	Substrate	System Description	FRR	Specimen Size	Report No.	ID/Ref
<b>INSULATED NON-COMBUSTIBLE PIPES</b>							
COPPER PIPE / 50MM THICK ROCKWOOL	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP / INTUMASTIC	/180/120	32MM DIA PIPE	340885000.9	V28
COPPER PIPE / 50MM THICK FIBREGLASS	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP / INTUMASTIC	/180/120	32MM DIA PIPE	340885000.9	V28
COPPER / STEEL PIPE / 38MM THICK ARMAFLEX	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP / INTUMASTIC	/180/120	32MM DIA PIPE	340885000.9	V28
COPPER / STEEL PIPE / 38MM THICK ARMAFLEX	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP / INTUMASTIC	/180/90	32MM DIA PIPE	340885000.9	V28
COPPER / STEEL PIPE / 50MM THICK PIR	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP / INTUMASTIC	/120/120	32MM DIA PIPE	340885000.9	V28
COPPER PIPES / 25MM THICK THERMOTEC	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC HP	/120/60	25MM DIA PIPE	340885000.9	V50
COPPER PIPES / 9MM THICK ARMAFLEX	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	15MM DIA PIPE	FCO-3228	SP8
COPPER PIPES / 9MM THICK ARMAFLEX	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	19MM DIA PIPE	FCO-3228	SP22
COPPER PIPES / 9MM THICK ARMAFLEX	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	19MM DIA PIPE	FCO-3228	SP21
COPPER PIPES / 30MM THICK FIBREGLASS	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/90	160MM DIA PIPE	52208000.1	11
COPPER PIPES / 33MM THICK ARMAFLEX	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/30	160MM DIA PIPE	52208000.1	12
COPPER PIPES / 33MM THICK ARMAFLEX	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/120	67MM DIA PIPE	52208000.1	13
COPPER PIPES / 13MM THICK ARMAFLEX	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/120	15MM DIA PIPE	52208000.1	14
COPPER PIPES / 33MM THICK ARMAFLEX	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/120	15MM DIA PIPE	52208000.1	15
COPPER PIPES / 33MM THICK ARMAFLEX	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/120	40MM DIA PIPE	52208000.1	16
STEEL PIPES / 38MM THICK ARMAFLEX	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP / INTUMASTIC	/120/60	220MM DIA PIPE	35256800	6
STEEL PIPES / 38MM THICK ARMAFLEX	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP / INTUMASTIC	/120/60	220MM DIA PIPE	35256800	6

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<b>INSULATED NON-COMBUSTIBLE PIPES</b>							
STEEL PIPES / 50MM THICK FIBREGLASS	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP / INTUMASTIC	/120/90	220MM DIA PIPE	35256800	7
COPPER PIPES / 32MM THICK ARMAFLEX	WALL	130MM THICK GIB / MASONRY / CONCRETE	INTUSLEEVE / INTUMASTIC	/120/120	15MM DIA PIPE	35084000.2	8
COPPER PIPES / 50MM THICK FIBREGLASS	WALL	130MM THICK GIB / MASONRY / CONCRETE	INTUSLEEVE / INTUMASTIC	/120/120	15MM DIA PIPE	35084000.2	9
COPPER PIPES / 38MM THICK ARMAFLEX	WALL	128MM THICK GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/120/90	25MM DIA PIPE	35084000.2	10
COPPER PIPES / 50MM THICK FIBREGLASS	WALL	128MM THICK GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/120/90	25MM DIA PIPE	35084000.2	11
COPPER PIPES / 30MM THICK PIR	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT / INTUMASTIC HP	/120/120	22MM DIA PIPE	35319300	4
COPPER PIPES / ARMAFLEX	WALL	GIB / MASONRY / HEBEL / SPEEDWALL / CLT	INTUBATT / RF COLLAR	/120/120	2 A/C PIPES	34088500.9	V18
COPPER PIPES / 50MM THICK FIBREGLASS	WALL	128MM THICK GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/180/90	25MM DIA PIPE	35084000.2	11
COPPER PIPES / 38MM THICK ARMAFLEX	WALL	128MM THICK GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/180/90	25MM DIA PIPE	35084000.2	10
COPPER PIPES / 30MM THICK PIR	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC HP	/120/120	22MM DIA	340885000.9	V31
COPPER PIPES / 25MM THICK ARMAFLEX	WALL	100MM THICK MASONRY WALL	INTUMASTIC HP	/120/120	25MM DIA	23671.4	25
COPPER PIPES / 60MM THICK FIBREGLASS	WALL	150MM THICK MASONRY WALL	INTUCOMPOUND	/240/60	108MM DIA PIPE	35084000.2	98
COPPER PIPES / 40MM THICK ROCKWOOL	WALL	150MM THICK MASONRY WALL	INTUCOMPOUND	/240/180	15MM DIA PIPE	35084000.2	99
COPPER PIPES / 60MM THICK FIBREGLASS	WALL	150MM THICK MASONRY WALL	INTUCOMPOUND	/240/240	15MM DIA PIPE	35084000.2	103
STEEL PIPE / 25MM THICK ARMAFLEX	CEILING	26MM THICK FR GIB	INTUMASTIC HP	/60/30	34MM DIA PIPE	35256800	8
COPPER PIPES / 25MM THICK ARMAFLEX	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	25MM DIA	23671.4	36
COPPER PIPES / 38MM THICK ARMAFLEX	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSTRAP	/120/120	25MM DIA PIPE	35084000.2	14
COPPER PIPES / 50MM THICK PIR INSULATION	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSTRAP	/120/90	25MM DIA PIPE	2600703.2A	D
COPPER PIPES / 50MM THICK GLASSFIBRE INSULATION	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSTRAP	/180/90	25MM DIA PIPE	2600703.2A	F
COPPER PIPES / 50MM THICK ROCKWOOL INSULATION	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSTRAP	/180/90	25MM DIA PIPE	2600703.2A	G
COPPER / 40MM THICK ARMAFLEX	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / INTUSTRAP	/120/90	80MM DIA PIPE	46812300.1	7
COPPER / STEEL PIPES / 38MM THICK ARMAFLEX	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUSTRAP	/120/120	32MM DIA	340885000.9	H18

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<b>INSULATED NON-COMBUSTIBLE PIPES</b>							
STEEL PIPES / 38MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE	INTUCOLLAR	/120/60	89MM DIA PIPE	35256800	9
STEEL PIPES / 40MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE	INTUMASTIC HP	/90/60	89MM DIA PIPE	35256800	10
STEEL PIPES / 38MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE	INTUBATT (SINGLE LAYER) / INTUSTRAP	/30/30	220MM DIA PIPE	35256800	11
STEEL PIPES / 50MM THICK FIBREGLASS	FLOOR	150MM THICK CONCRETE	INTUBATT (SINGLE LAYER) / INTUSTRAP	/90/30	220MM DIA PIPE	35256800	12
COPPER PIPES / 50MM THICK FIBREGLASS	FLOOR	150MM THICK CONCRETE	INTUSTRAP / INTUMASTIC	/120/120	15MM DIA PIPE	35084000.2	12
COPPER PIPES / 35MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE	INTUSTRAP / INTUMASTIC	/120/120	15MM DIA PIPE	35084000.2	13
STEEL PIPES / 60MM THICK FIBREGLASS	FLOOR	150MM THICK CONCRETE	INTUSTRAP	/60/30	160MM DIA PIPE	35319300	5
STEEL PIPES / 60MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE	INTUBATT / INTUSTRAP	/60/0	160MM DIA PIPE	35319300	6
STEEL PIPES / 40MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE	INTUBATT / INTUSTRAP	/240/30	220MM DIA PIPE	35319300	7
STEEL PIPES / 38MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSTRAP	/180/180	55MM DIA PIPE	35084000.2	15
STEEL PIPES / 50MM THICK FIBREGLASS	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSTRAP	/60/60	160MM DIA PIPE	35084000.2	16
COPPER PIPES / 60MM THICK FIBREGLASS	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSTRAP	/240/240	15MM DIA PIPE	35084000.2	104
<b>NON-INSULATED COMBUSTIBLE PIPES</b>							
HDPE PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP	/240/120	40MM DIA PIPE	340885000.9	V39
PVC PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP	/240/240	40MM DIA PIPE	340885000.9	V32
PVC PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / RF COLLARS	/120/120	150MM DIA PIPE	340885000.9	V33 - V38
HDPE PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / RF COLLARS	/120/120	110MM DIA PIPE	340885000.9	V40 - V44
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUSTRAP	/180/180	48MM DIA PIPE	340885000.9	V51 - V52
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC HP	/180/180	34MM DIA PIPE	340885000.9	V53
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC HP	/120/120	48MM DIA PIPE	340885000.9	V54

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<b>NON-INSULATED COMBUSTIBLE PIPES</b>							
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	WALL	116MM THICK GIB / 100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	34MM DIA PIPE	23671.04	23
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	WALL	116MM THICK GIB / 100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP	/120/120	34MM DIA PIPE	23671.04	23
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	WALL	116MM THICK GIB / 100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	48MM DIA PIPE	23671.04	24
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	WALL	116MM THICK GIB / 100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP	/120/120	48MM DIA PIPE	23671.04	24
PVC PIPE / COUPLING / KNUCKLE JOINT	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	SL COLLAR	/90/60	110MM DIA PIPE	46469500.2	H
PVC PIPE / COUPLING / KNUCKLE JOINT	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	INTUSLEEVE / INTUMASTIC HP	/90/0	110MM DIA PVC PIPE WITH COUPLING	51028300.1	C
PVC PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	80MM DIA PVC PIPE - 160MM DIA SL COLLAR - INTUMASTIC HP	90/90	80MM DIA PVC PIPE PASSING VIA 160MM DIA SL COLLAR	51028300.1	E
PVC PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	80MM DIA PVC PIPE - 160MM DIA INTUSLEEVE - INTUMASTIC HP	90/60	80MM DIA PVC PIPE PASSING VIA 160MM DIA INTUSLEEVE	51028300.1	F
PVC PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	INTUSLEEVE 300	/60/60	160MM DIA PIPE	46469500.2	G
PVC PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	SL COLLAR	/90/60	160MM DIA PIPE	46469500.2	F
PEX PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/60/0	32MM DIA PIPE	46469500.2	B
PEX PIPE	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	43MM DIA PIPE	23671.04	26
PEX PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/120	43MM DIA PIPE	23671.04	26
PEX AL PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP	/120/120	43MM DIA PIPE	23671.04	28
PEX AL PIPE	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	43MM DIA PIPE	23671.04	28
PEX AL PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUMASTIC HP	/180/180	16MM DIA PIPE	340885000.9	V55
PEX PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUMASTIC HP	/180/180	16MM DIA PIPE	340885000.9	V57
PEX AL PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUMASTIC HP	/120/120	43MM DIA PIPE	340885000.9	V68

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<b>NON-INSULATED COMBUSTIBLE PIPES</b>							
PEX PIPE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUMASTIC HP	/120/120	43MM DIA PIPE	340885000.9	V69
PVC PIPE	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	50MM DIA PIPE	FCO-3228	SP13 - 23
HDPE PIPE	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	40M DIA PIPE	FCO-3228	SP10
PEX PIPE	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	32MM DIA PIPE	FCO-3228	SP11
PEX AL PIPE	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	16MM DIA PIPE	FCO-3228	SP12
PVC SPIGOT / PVC FLEXI DRAIN	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60		FCO-3228	SP18
PEX / AL / PE PIPES	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	32MM DIA PIPE	FCO-3228	SP24
PVC PIPE	WALL	128MM THICK GIB WALL	INTUCOLLAR GV	/120/60	100MM DIA PIPE	FAR 4035	G
PVC PIPE	WALL	120MM THICK MASONRY WALL	INTUCOLLAR GV	/120/90	100MM DIA PIPE	FAR 4035	G
PVC PIPE	WALL	GIB / MASONRY / CONCRETE	INTUCOLLAR GV	/120/120	40MM DIA PIPE	FAR 4035	G
HDPE PIPE	WALL	128MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/120/120	40MM DIA PIPE	35084000.2	17
PVC PIPE	WALL	128MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/120/120	43MM DIA PIPE	35084000.2	20
PVC PIPE	WALL	192MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUSTRAP	/240/0	50MM DIA PIPE	2600700	G
PVC PIPE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/120/120	55MM DIA PIPE	35319300	8
HDPE PIPE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUCOLLAR	/90/90	160MM DIA PIPE	35256800	13 - 16
PPR PIPE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUCOLLAR	/90/90	75MM DIA PIPE	35256800	17
ABS PIPE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUCOLLAR	/90/90	90MM DIA PIPE	35256800	18
PVC PIPE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUCOLLAR	/120/60	55MM DIA PIPE	35256800	19
PVC PIPE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUCOLLAR	/60/60	160MM DIA PIPE	35256800	20-21
HDPE PIPE	WALL	130MM THICK GIB / MASONRY / CONCRETE	INTUSLEEVE / ROCKWOOL SLEEVE	/120/120	110MM DIA PIPE	35084000.2	18

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<b>NON-INSULATED COMBUSTIBLE PIPES</b>							
PVC PIPE	WALL	130MM THICK GIB / MASONRY / CONCRETE	INTUSLEEVE / ROCKWOOL SLEEVE	/120/120	50MM DIA PIPE	35084000.2	19
HDPE PIPE	WALL	128MM THICK GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/240/120	40MM DIA PIPE	35084000.2	17
PVC PIPE	WALL	128MM THICK GIB / MASONRY / CONCRETE	INTUBATT / INTUSTRAP	/240/240	43MM DIA PIPE	35084000.2	20
HDPE PIPE	WALL	100MM THICK MASONRY	INTUMASTIC HP	/120/120	40MM DIA	23671.04	29
HDPE PIPE	WALL	100MM THICK MASONRY	INTUMASTIC HP	/120/120	22MM DIA	23671.04	30
PVC PIPE	CEILINGS	26MM THICK GIB	INTUCOLLAR	/60/30	110MM DIA PIPE	35256800	22
PVC PIPE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	22MM DIA PIPE	23671.04	41
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	34MM DIA PIPE	23671.04	34
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP	/120/120	34MM DIA PIPE	23671.04	34
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	48MM DIA PIPE	23671.04	35
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUSTRAP	/120/120	48MM DIA PIPE	23671.04	35
PEX PIPE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	43MM DIA PIPE	23671.04	37
PEX AL	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	43MM DIA PIPE	23671.04	39
HDPE PIPE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	40MM DIA PIPE	23671.04	40
PEX PIPE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	43MM DIA PIPE	23671.04	56
HDPE PIPE	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSTRAP / INTUMASTIC	/180/180	40MM DIA PIPE	2600703.2A	C
HDPE PIPE	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSLEEVE	/120/120	112MM DIA PIPE	35319300	11
PVC PIPE	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSLEEVE	/90/90	110MM DIA PIPE	35319300	12
PVC PIPE	FLOOR	120MM THICK CONCRETE	INTUBATT / INTUSLEEVE	/120/120	69MM DIA PIPE	35319300	13
PVC PIPE	FLOOR	120MM THICK CONCRETE	INTUCOLLAR GV	/120/120	100MM DIA PIPE	FAR 4035	G
PVC PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / SL COLLAR	/90/60	160MM DIA PIPE	46812300.1	1
HDPE PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / SL COLLAR	/120/120	160MM DIA PIPE	46812300.1	2

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<b>NON-INSULATED COMBUSTIBLE PIPES</b>							
DBLUE ACOUSTIC PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / SL COLLAR	/120/120	160MM DIA PIPE	46812300.1	3
PPR-CT PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / SL COLLAR	/30/30	125MM DIA PIPE	46812300.1	4
PVC PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / INTUSTRAP	/90/0	110MM DIA PIPE	46812800.1	7
PVC PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUSLEEVE	/120/60	160MM DIA PIPE	46812800.1	1
HDPE PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUSLEEVE	/120/60	160MM DIA PIPE	46812800.1	2
DBLUE ACOUSTIC PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUSLEEVE	/120/60	160MM DIA PIPE	46812800.1	3
PPR-CT PIPE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUSLEEVE	/120/60	110MM DIA PIPE	46812800.1	8
PVC PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUSTRAP	/60/60	110MM DIA PIPE	340885000.9	H20
PVC PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / RF COLLAR	/120/120	160MM DIA PIPE	340885000.9	H21 - H26
HDPE PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / RF COLLAR	/120/120	160MM DIA PIPE	340885000.9	H27-H29
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUSTRAP	/180/180	48MM DIA PIPE	340885000.9	H32-H33
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC HP	/120/120	48MM DIA PIPE	340885000.9	H35
PVC PIPE / BLAZEMASTER HARTVEL SPRINKLER	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC HP	/180/180	34MM DIA PIPE	340885000.9	H34
PEX - AL PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC HP	/120/120	43MM DIA PIPE	340885000.9	H49
PEX - AL PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC HP	/180/180	16MM DIA PIPE	340885000.9	H36
PEX PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC HP	/120/120	43MM DIA PIPE	340885000.9	H50
PEX PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC HP	/180/180	16MM DIA PIPE	340885000.9	H38
HDPE PIPE	FLOOR	150MM THICK CONCRETE	INTUBATT (SINGLE LAYER) / INTUSTRAP / INTUMASTIC	/60/60	55MM DIA PIPE	35319300	9
HDPE PIPE	FLOOR	150MM THICK CONCRETE	INTUCOLLAR	/90/90	160MM DIA PIPE	35256800	23
HDPE PIPE	FLOOR	150MM THICK CONCRETE	INTUCOLLAR	/120/120	110MM DIA PIPE	35256800	24 - 26
PPR PIPE	FLOOR	150MM THICK CONCRETE	INTUCOLLAR	/120/120	75MM DIA PIPE	35256800	27
ABS PIPE	FLOOR	150MM THICK CONCRETE	INTUCOLLAR	/120/120	90MM DIA PIPE	35256800	28
PVC PIPE	FLOOR	150MM THICK CONCRETE	INTUCOLLAR GV	/180/180	100MM DIA PIPE	FAR 4035	G
PVC PIPE	FLOOR	150MM THICK CONCRETE	INTUCOLLAR	/120/120	160MM DIA PIPE	35256800	29-32

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Service Penetration	Orientation	Substrate	System Description	FRR	Specimen Size	Report No.	ID/Ref
<b>NON-INSULATED COMBUSTIBLE PIPES</b>							
PVC PIPE	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSTRAP	/240/180	160MM DIA PIPE	35256800	33-36
PPR PIPE	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/180	90MM DIA PIPE	35256800	37
HDPE PIPE	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/180	82MM DIA PIPE	35256800	38
PVC PIPE	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/180	160MM DIA PIPE	35256800	39-42
HDPE PIPE	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/240	82MM DIA PIPE	35084000.2	22
PVC PIPE	FLOOR	150MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/240	160MM DIA PIPE	35084000.2	23
PVC PIPE	FLOOR	150MM THICK CONCRETE	INTUBATT (DOUBLE LAYER) / INTUSTRAP / INTUMASTIC	/60/60	110MM DIA PIPE	35319300	10
PVC PIPE	FLOOR	170MM THICK CONCRETE	INTUCOLLAR GV	/240/240	100MM DIA PIPE	FAR 4035	G
PVC PIPE	FLOOR	175MM THICK CONCRETE	INTUCOMPOUND / INTUSTRAP	/240/240	160MM DIA PIPE	35256800	33-36
PPR PIPE	FLOOR	175MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/240	90MM DIA PIPE	35256800	37
HDPE PIPE	FLOOR	175MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/240	82MM DIA PIPE	35256800	38
PVC PIPE	FLOOR	175MM THICK CONCRETE	INTUCOMPOUND / INTUSLEEVE	/240/240	160MM DIA PIPE	35256800	39-42
PVC PIPE / 25MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE FLOOR	INTUCOLLAR	/120/120	110MM DIA PIPE	35256800	44
PVC PIPE / 30MM THICK ARMAFLEX	FLOOR	150MM THICK CONCRETE FLOOR	INTUCOLLAR	/120/120	21.5MM DIA PIPE	35256800	43
POLYETHYLENE PIPE / 55MM FIBREGLASS	FLOOR	150MM THICK CONCRETE FLOOR	INTUSTRAP	/120/120	15MM DIA PIPE	35256800	45
<b>ELECTRICAL PENETRATION SERVICES</b>							
SINGLE COMMS CABLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	SINGLE LAYER INTUBATT - CLOSED CAVITY -	/120/90	1 X 15MM DIA CABLE	340885000.9	TABLE 4
TWO X 5 CORE CABLES	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	SINGLE LAYER INTUBATT - CLOSED CAVITY -	/120/90	2 X 15MM DIA CABLES	340885000.9	TABLE 4
SINGLE ARMoured CABLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	SINGLE LAYER INTUBATT - CLOSED CAVITY -	/120/90	1 X 25MM DIA	340885000.9	TABLE 4
CABLE BUNDLE - MIXED CABLES	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	SINGLE LAYER INTUBATT - CLOSED CAVITY - ROCKWOOL SLEEVE	/120/60 (MAX)	13 X CABLES - MIX DIA	340885000.9	TABLE 4
BUSWAY / BUSBARS	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/240/0	VARIOUS TYPES	340885000.9	TABLE 2



## Section A - Fire Stopping Products/Solutions

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<b>ELECTRICAL PENETRATION SERVICES</b>							
BUSWAY / BUSBARS	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	240/240 (MAX)	VARIOUS TYPES	340885000.9	TABLE 3
CABLE TRAY OR CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120 (MAX)	D1 / D2 CONFIGURATION	340885000.9	V1 / V2
CABLE TRAY OR CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	/240/180	D1 / D2 CONFIGURATION	340885000.9	V3 / V4
CABLE TRAY OR CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	D1 / D2 CONFIGURATION	340885000.9	V5 / V6
CABLE TRAY OR CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	/240/180	D1 / D2 CONFIGURATION	340885000.9	V7 / V8
COAX CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	4 X 28MM DIA BUNDLE	340885000.9	V9
COAX CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	/240/180 (MAX)	4 X 28MM DIA BUNDLE	340885000.9	V10
CABLE BUNDLE	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/60/60	4 CABLES	34084000.2	27
CABLE BUNDLE	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT	/60/60	4 CABLES	34084000.2	24
CABLE CONDUIT	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUMASTIC HP	/120/120	8 X TPS CABLES	340885000.9	V60
CABLE TRAY	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/60/60	4X21MM DIA & 1X23MM DIA	34084000.2	28
CABLE - SINGLE	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/60/60	1 X COAX CABLE	34084000.2	26
CABLE BUNCH	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/90/30	5 X TPS CABLES	51028300.1	H
ELECTRICAL SOCKET BOX	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE WALL	RYANFIRE PUTTY PAD	/90/60	TESTED BOTH SIDES WALL	51028300.1	A / B
ELECTRICAL SOCKET BOX	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE WALL	ELECTROPAD	/60/60	TESTED BOTH SIDES WALL	34084000.2	29/30

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<b>ELECTRICAL PENETRATION SERVICES</b>							
CABLE TRAY	WALL	120MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/60/60	4X21MM DIA & 1X23MM DIA	34084000.2	25
CABLE BUNDLE - OPTICAL	WALL	130MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/60/60	21 CABLES	34084000.2	63
CABLE BUNDLE - OPTICAL	WALL	130MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/60/60	12 CABLES	34084000.2	64
CABLE BUNDLES - OPTICAL / POWER	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	VARIOUS TYPES	FCO - 3228	SP VARIOUS
CABLE TRAY	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	100MM CABLE TRAY	FCO - 3228	SP25
CABLE CONDUIT - 26MM DIA	WALL	90MM THICK WALL - GIB / MASONRY / CONCRETE / 51MM THICK SPEEDWALL	FR BLOCK / INTUMASTIC HP	/60/60	6 CABLES	FCO - 3228	SP5
CABLE BUNDLE - OPTICAL	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	21 CABLES	340885000.9	V11
CABLE BUNDLE - OPTICAL	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	12 CABLES	340885000.9	V12
CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	21 CABLES	340885000.9	V13
CABLE BUNDLE - TPS/ALARM	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/180/120	12 CABLES	340885000.9	V49
CABLE CONDUIT- 55MM DIA	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	4 CABLES	340885000.9	V14 / V15
CABLE TRAY	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	3 CABLES	340885000.9	V16
CABLE - SINGLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	10MM DIA CABLE	340885000.9	V19
CABLE - SINGLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	8MM DIA FIREFIX GOLD	340885000.9	V20
CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	6 X 13MM DIA TPS CABLES	340885000.9	V21
CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	3 X 8MM FIREFIX CABLES	340885000.9	V22

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<b>ELECTRICAL PENETRATION SERVICES</b>							
CABLE - SINGLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	1 CABLE	340885000.9	V23
CABLE - SINGLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	1 CABLE	340885000.9	V24
CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	12 TPS CABLES	340885000.9	V25
CABLE CONDUITS	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/240/120	2 X 27MM CONDUITS - 31 CABLES	340885000.9	V70
CABLE BUNDLE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/120	6 X TPS / ALARM CABLES	23671.4	11
ELECTRICAL SOCKET BOX	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	ELECTROPAD	/120/120	TESTED BOTH SIDES WALL	35256800	46/47
CABLE CONDUIT - 82MM DIA	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUCOLLAR	/120/120	65 CABLES	35256800	48
CABLE CONDUIT - 25MM DIA	WALL	128MM THICK GIB WALL / 100MM THICK MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/120	8 X TPS CABLES	23671.4	45
CABLE CONDUITS X2 X 63MM DIA PLUS BUNDLE	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/30	2 CABLES PLUS CABLE BUNDLE	52208000.1	20
CABLE LADDER / CABLE TRAY / BUNDLE	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/90	8 CABLES	52208000.1	19
CABLE LADDER / CABLE TRAY / BUNDLE	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/90	36 CABLES PLUS 40MM DIA BUNDLE	52208000.1	17
CABLE TRAY	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/90	5 X POWER CABLES	52208000.1	18
CABLE BUNDLE	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	70MM DIA BUNDLE	52208000.1	10
CABLE CONDUIT - 82MM DIA	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUSTRAP / INTUMASTIC	/120/120	65 CABLES	35256800	49
CABLE CONDUITS - ONLY HAVE TREATED	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUSTRAP	/120/120	12 CABLES	35319300	14

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<b>ELECTRICAL PENETRATION SERVICES</b>							
CABLE CONDUITS - TOUCHING	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUSTRAP	/120/120	12 CABLES	35319300	15
CABLE CONDUIT - 55MM DIA	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/120	20MM DIA BUNDLE	35319300	16
CABLE CONDUIT - 55MM DIA	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUSTRAP	/60/60	6 X TPS / ALARM CABLES	35319300	17
CABLE CONDUIT - 55MM DIA	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUSTRAP	/60/60	7 X TPS CABLES	35319300	18
CABLE TRAY	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	16 CABLES	35256800	50
CABLE TRAY OR CABLE BUNDLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	80MM DIA + 61MM DIA + CABLE BUNDLE	35319300	19
CABLE TRAY OR CABLE BUNDLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/120/120	80MM DIA + 61MM DIA + CABLE BUNDLE	35319300	20
CABLE BUNDLES - 3 NUMBER	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/60/60	30MM DIA + 30MM DIA + 40MM DIA BUNDLE	35319300	21
CABLE BUNDLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	20 DATA CABLES + 5 TPS	35319300	22
CABLE BUNDLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/120/120	6 CABLES	35319300	23
CABLE BUNDLE X 2	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/60/60	30MM DIA COAX + 35MM DIA FIRE ALARM	35319300	24
CABLE - SINGLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	1 X TPS CABLE	35319300	25
CABLE - SINGLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	1 X OPTICAL CABLE	35319300	26
CABLE - SINGLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	1 X COAX CABLE	35319300	27
CABLE - SINGLE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/90	1 X 21MM DIA CABLE	35319300	28

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<b>ELECTRICAL PENETRATION SERVICES</b>							
CABLE BUNDLE	WALL	130MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	12 X OPTICAL CABLES	35084000.2	64
CABLE BUNDLE	WALL	130MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	21 CABLES	35084000.2	63
CABLE TRANSIT	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	FIRETHERM CABLE TRANSIT	/120/60	140 CABLES	35319300	30
CABLE TRANSIT - CIRCULAR	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	FIRETHERM CABLE TRANSIT - 200MM DIA	/120/120	16 X CONDUITS EACH FILLED WITH CABLES	35319300	31
CABLE TRANSIT	WALL	130MM THICK GIB / MASONRY / CONCRETE WALL	FIRETHERM CABLE TRANSIT	/120/120	CABLE TRAY / VARIOUS CABLES	35084000.2	41
CABLE TRANSIT	WALL	130MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / FIRETHERM CABLE TRANSIT	/120/90	19 CABLES + CABLE CONDUIT + 2XPVC PIPES	35084000.2	40
CABLE LADDER	WALL	128MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / SLEEVE	/120/120	D1 & D2 CABLE CONFIGURATION	35084000.2	42/43
CABLE TRUNKING	WALL	100MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / INTUPILOW PRO	/120/120	CABLES - 10% FILL	35084000.2	65
CABLE TRUNKING	WALL	100MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / INTUPILOW PRO	/120/120	CABLES - 75% FILL	35084000.2	66
CABLE TRUNKING	WALL	100MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / INTUPILOW PRO	/120/120	CABLES - 45% FILL	35084000.2	67
CABLE TRUNKING	WALL	100MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / INTUPILOW PRO	/120/120	CABLES - 75% FILL	35084000.2	68
CABLE CONDUIT - 22MM DIA	WALL	130MM THICK GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/120	2 CABLES	35084000.2	33
CABLE CONDUIT - 55MM DIA	WALL	130MM THICK GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/120	4 X CABLES	35084000.2	34
CABLE TRAY / LADDER	WALL	130MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	4 CABLE TRAYS - 48 CABLES + 100MM DIA BUNDLE	35084000.2	35
CABLE LADDER	WALL	128MM THICK GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC / SLEEVE	/240/180	D1 & D2 CABLE CONFIGURATION	35084000.2	42/43
CABLE TRAY OR CABLE BUNDLE	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	D1 & D2 CABLE CONFIGURATION	23671.4	12 & 13
CABLE BUNDLE	WALL	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	12 TPS OR ALARM CABLES	23671.4	9

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<b>ELECTRICAL PENETRATION SERVICES</b>							
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/180/60	52MM DIA CABLE	35084000.2	69
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/240/60	2 X 27MM DIA CABLES	35084000.2	70
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/120/90	1 X 80MM DIA CABLE	35084000.2	71
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/240/90	1 X 62MM DIA CABLE	35084000.2	72
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/180/120	10 X 14MM DIA CABLES	35084000.2	73
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/90/90	1 X 100MM DIA CABLE BUNDLE	35084000.2	82
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/240/120	10 X 13MM DIA CABLES	35084000.2	75
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/180/90	10 CABLES	35084000.2	74
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/240/120	2 X 21MM DIA CABLES	35084000.2	76
CABLE TRAY	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUCOMPOUND	/240/90	3 X 61MM DIA CABLES	35084000.2	78
CABLE BUNDLE	CEILINGS	26MM THICK GIB	INTUMASTIC HP	/60/30	6 X TPS CABLES	35256800	51
CABLE BUNDLE	CEILINGS	26MM THICK GIB	INTUMASTIC HP	/60/30	12 CABLES	35256800	52
DOWNLIGHTER COVERS - VENTILLATED	CEILINGS	CEILING THICKNESS OF THE REQUIRED FRL	RYANFIRE VENTILLATED DOWNLIGHTER COVERS	/60/60	150MM / 200MM / 250MM / 320MM / 420MM DIA	FAR 4823	
CABLE TRAY OR CABLE BUNDLE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	D1 CABLE CONFIGURATION	23671.4	19
CABLE TRAY OR CABLE BUNDLE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	D2 CABLE CONFIGURATION	23671.4	20
CABLE BUNDLE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	12 TPS / ALARM CABLES	23671.4	16
CABLE BUNDLE	FLOOR	100MM THICK CONCRETE / MASONRY / HEBEL	INTUMASTIC HP	/120/120	6 TPS / ALARMS CABLES	23671.4	18
CABLE TRAY / LADDER	FLOOR	120MM THICK CONCRETE/MASORY FLOOR	INTUBATT / INTUMASTIC / SLEEVE	/240/180	60 X COMMS CABLES	2600703.2A	H
CABLE TRAY / LADDER	FLOOR	120MM THICK CONCRETE/MASORY FLOOR	INTUBATT / INTUMASTIC / SLEEVE	/180/180	13 X MIXED CABLES	2600703.2A	I
CABLE TRAY / LADDER	FLOOR	120MM THICK CONCRETE/MASORY FLOOR	INTUBATT / INTUMASTIC / SLEEVE	/180/180	D1 CABLE CONFIGURATION	35084000.2	45

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<b>ELECTRICAL PENETRATION SERVICES</b>							
CABLE TRAY / LADDER	FLOOR	120MM THICK CONCRETE/MASORY FLOOR	INTUBATT / INTUMASTIC / SLEEVE	/240/180	D2 CABLE CONFIGERATION	35084000.2	44
CABLE BUNDLE	FLOOR	120MM THICK CONCRETE/MASORY FLOOR	INTUBATT / INTUMASTIC	/120/120	21 OPTICAL CABLES	35084000.2	31
CABLE BUNDLE	FLOOR	120MM THICK CONCRETE/MASORY FLOOR	INTUBATT / INTUMASTIC	/120/120	12 OPTICAL CABLES	35084000.2	32
CABLE BUNDLE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / INTUMASTIC	/60/30	75 CABLES	46812300.1	5
CABLE BUNDLE	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUMASTIC HP	/120/60	75 CABLES	46812800.1	5
CABLE TRAY / LADDER	FLOOR	COMPOSITE FLOORING - 65MM THICK CONCRETE	INTUBATT / INTUMASTIC	/60/30	13 CABLES	46812800.1	4
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	D1 CABLE CONFIGERATION	340885000.9	H1
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	D2 CABLE CONFIGERATION	340885000.9	H2
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/180/180	D1 CABLE CONFIGERATION	340885000.9	H3
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/180/180	D2 CABLE CONFIGERATION	340885000.9	H4
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	D1 CABLE CONFIGERATION	340885000.9	H5
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	D2 CABLE CONFIGERATION	340885000.9	H6
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/180/180	D1 CABLE CONFIGERATION	340885000.9	H7
CABLE TRAY OR CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/180/180	D2 CABLE CONFIGERATION	340885000.9	H8
CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	4 X 28MM DIA COAX CABLES	340885000.9	H9
CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/180/180	4 X 28MM DIA COAX CABLES	340885000.9	H10
CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	21 X OPTICAL CABLES	340885000.9	H11
CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	12 X OPTICAL CABLES	340885000.9	H12
CABLE CONDUIT - 50MM DIA	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/120/120	2 X 23MM DIA CABLES	340885000.9	H13
CABLE CONDUIT - 50MM DIA	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/120/120	6 X TPS CABLES	340885000.9	H14
CABLE BUNDLE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/180/120	12 X TPS CABLES	340885000.9	H30
CABLE CONDUIT - 25MM DIA	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/120/120	8 X TPS CABLES	340885000.9	H41

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<b>ELECTRICAL PENETRATION SERVICES</b>							
CONDUIT BUNDLE - 3 X 27MM DIA	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/240/120	24 DATA CABLES + 7 COAX CABLES	340885000.9	H51
BUSWAY / BUSBARS (VARIOUS TYPES)	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC	/240/0	VARIOUS TYPES - REFER TO REPORT	340885000.9	TABLE 7
BUSWAY / BUSBARS (VARIOUS TYPES)	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/240/240	VARIOUS TYPES - REFER TO REPORT	340885000.9	TABLE 8/8A/8B
CABLE BUNDLE	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/90/30	100MM DIA CABLE BUNDLE	52208000.1	1
CABLE/CABLE BUNDLES	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/120	18MM DIA / 20MM DIA / 14MM DIA	52208000.1	2+3+4
CABLE BUNDLE	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/120	3 CABLES	52208000.1	5
CABLE TRAY / LADDERS	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/90 (MAX)	1X52MM DIA + 2X27MM DIA + 1X80MM DIA	52208000.1	6
CABLE TRAY / LADDERS	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/30	1 X 60MM DIA	52208000.1	7
CABLE TRAY / LADDERS	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/90 (MAX)	41 X MIXED DIA CABLES	52208000.1	8
CABLE TRAY / LADDERS	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/30	1X17MM DIA + 1X23MM DIA + 100MM DIA BUNDLE	52208000.1	9
CABLE BUNDLE	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC (SINGLE LAYER)	/60/30	7 MIXED CABLES	35256800	53
CABLE CONDUIT - 50MM DIA	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC / INTUSTRAP - SINGLE LAYER	/240/180	8 X TPS CABLES	35319300	33
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/120/30	7 MIXED CABLES	35256800	54
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/240/60	1 X 52MM DIA CABLE	35084000.2	83
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/240/120	2 X 27MM DIA CABLES	35084000.2	84
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/240/60	1 X 80MM DIA CABLE	35084000.2	85
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/240/120	20 X 14MM DIA CABLES	35084000.2	88/89
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/240/60	2X21MM DIA CABLES	35084000.2	90
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/180/120	3 X 61MM DIA CABLES	35084000.2	92



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<b>ELECTRICAL PENETRATION SERVICES</b>							
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/240/240	1 X 17MM DIA CABLE	35084000.2	94
CABLE TRAY	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/120/120	100MM DIA CABLE BUNDLE	35084000.2	96
CABLE TRANSIT	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	CABLE TRANSIT / INTUMASTIC HP	/120/30	36 CABLES	35084000.2	38
CABLE CONDUIT - 50MM DIA	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/120	3 - 6 CABLES	35084000.2	36 - 37
CABLE BUNDLE	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/120	80MM DIA BUNDLE	352568000	57
CABLE CONDUIT - 50MM DIA	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC / INTUSTRAP	/240/180	15 CABLES	35319300	34
CABLE BUNDLES	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/180/120	10 X DATA + 5 X OPTICAL + 3 X ALARM CABLES	35319300	35
CABLE BUNDLES	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/60/60	30MM DIA + 50MM DIA CABLE BUNDLE	35319300	36
CABLE BUNDLE	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOLLAR	/120/120	61 CABLES	35256800	55
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND / INTUBATT / INTUMASTIC	/240/120	1 X 52MM DIA/2 X 27MM DIA/1 X 80MM DIA CABLES	35084000.2	62
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND / INTUBATT / INTUMASTIC	/240/240	1 X 58MM DIA CABLE	35084000.2	61
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND / INTUBATT / INTUMASTIC	/240/120	35 X MIXED SIZE CABLES	35084000.2	59
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND / INTUBATT / INTUMASTIC	/240/120	1X100MM DIA BUNDLE + 1X17MM DIA + 1X23MM DIA	35084000.2	60
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/180/60	3 X 47MM DIA CABLES	35084000.2	91
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/120/120	1X300MM 1X200MM 1X500MM WIDE CABLE LADDERS/TRAYS	35084000.2	39
CABLE TRAY / LADDER	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND / INTUBATT / INTUMASTIC	/240/120	35 CABLES - RANGING FROM 14MM - 47MM DIA	35256800	58
CABLE BUNDLE	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/120/120	80MM DIA BUNDLE	352568000	56
CABLE CONDUIT - 55MM DIA	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUMASTIC HP	/240/120	24 MIXED CABLES	35319300	32
CABLE CONDUIT - 55MM DIA	FLOOR	175MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC (SINGLE LAYER)	/240/240	8 X TPS CABLES	35319300	33

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<b>SEISMIC/CONSTRUCTION JOINTS</b>							
BLANK SEAL	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	300MM X 310MM VOID	35319300	39
BLANK SEAL	WALL	150MM THICK CONCRETE WALL	INTUBATT / INTUMASTIC	/240/240	1500 X 1500MM VOID	35319300	40
BLANK SEAL	WALL	110MM THICK WALL - GIB/ MASONRY / CONCRETE / HEBEL	INTUBATT / INTUMASTIC	/120/120	3000 X 1200MM VOID	27186.25	V 2 / V3
BLANK SEAL	WALL	150MM THICK MASONRY / CONCRETE / HEBEL WALL	INTUBATT / INTUMASTIC	/240/240	1200 X 1200 VOID	27186.25	V1
BLANK SEAL	WALL	51MM / 64MM / 78MM THICK SPEED WALL	INTUBATT / INTUMASTIC	/120/120 (MAX)	2400 X 1000 VOID	27186.25	V4
BLANK SEAL	WALL	110MM THICK GIB WALL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	1000X1000 OR 600MM DIA CORE DRILLED HOLE	27186.25	V5
BLANK SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	1000X1000 OR 600MM DIA CORE DRILLED HOLE	27186.25	V5
BLANK SEAL	WALL	110MM THICK GIB WALL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	1000X1000 OR 600MM DIA CORE DRILLED HOLE	27186.25	V6
BLANK SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	1000X1000 OR 600MM DIA CORE DRILLED HOLE	27186.25	V6
BLANK SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1200 X 600 VOID	27186.25	V7
BLANK SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1200 X 600 VOID	27186.25	V7
BLANK SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1200 X 600 VOID	27186.25	V8
BLANK SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1200 X 600 VOID	27186.25	V8
BLANK SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1000 X 400 VOID	27186.25	V9
BLANK SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1000 X 400 VOID	27186.25	V9
BLANK SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1000 X 400 VOID	27186.25	V10
BLANK SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1000 X 400 VOID	27186.25	V10
BLANK SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC	/120/120	1000 X 400 VOID	27186.25	V11 / V12
BLANK SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	1000 X 400 VOID	27186.25	V11 / V12

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<b>SEISMIC/CONSTRUCTION JOINTS</b>							
BLANK SEAL	WALL	77MM THICK SPEED WALL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1200X600 VOID	27186.25	V13
BLANK SEAL	WALL	105MM THICK CROSS LAMINATED TIMBER (CLT)	INTUBATT / INTUMASTIC	/90/90	1200 X 600 VOID	27186.25	V35
LINEAR GAP SEAL	WALL	120MM THICK GIB / MASONRY / CONCRETE WALL	INTUMASTIC	/60/0	10X10MM GAP	35084000.2	46
LINEAR GAP SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC	/240/240	600MM WIDE X INFINITE LENGTH	27186.25	V14 / V15
LINEAR GAP SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/240/240	600MM WIDE X INFINITE LENGTH	27186.25	V14 / V15
LINEAR GAP SEAL	WALL	110MM THICK GIB WALL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	400MM WIDE X INFINITE LENGTH	27186.25	V16
LINEAR GAP SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	400MM WIDE X INFINITE LENGTH	27186.25	V16
LINEAR GAP SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC	/120/120	1200MM WIDE X INFINITE LENGTH	27186.25	V17 / V18
LINEAR GAP SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	1200MM WIDE X INFINITE LENGTH	27186.25	V17 / V18
LINEAR GAP SEAL	WALL	110MM THICK GIB WALL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	1000MM WIDE X INFINITE LENGTH	27186.25	V19 / V20 / V21
LINEAR GAP SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	1000MM WIDE X INFINITE LENGTH	27186.25	V19 / V20 / V21
LINEAR GAP SEAL	WALL	110MM THICK GIB WALL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	600MM WIDE X INFINITE LENGTH	27186.25	V22 / V23 / V24
LINEAR GAP SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	600MM WIDE X INFINITE LENGTH	27186.25	V22 / V23 / V24
LINEAR GAP SEAL	WALL	110MM THICK GIB WALL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	400MM WIDE X INFINITE LENGTH	27186.25	V25 / V26
LINEAR GAP SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	400MM WIDE X INFINITE LENGTH	27186.25	V25 / V26
LINEAR GAP SEAL	WALL	110MM THICK GIB WALL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	601 - 1200MM WIDE X INFINITE LENGTH	27186.25	V27
LINEAR GAP SEAL	WALL	MASONRY / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC	/120/120	601 - 1200MM WIDE X INFINITE LENGTH	27186.25	V27
LINEAR GAP SEAL	WALL	SEALING BETWEEN FLOOR AND ABOVE STRUCTURAL STEEL BEAMS	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	600MM WIDE X 4000MM LONG VOID	27186.25	V28
LINEAR GAP SEAL	WALL	78MM THICK SPEED WALL	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	600MM WIDE X INFINITE LENGTH	27186.25	V29
LINEAR GAP SEAL	WALL	150MM CONCRETE/AERATED/MASONRY WALL	INTUMASTIC	/180/180	35MM GAP	35084000.2	49

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<b>SEISMIC/CONSTRUCTION JOINTS</b>							
LINEAR GAP SEAL	WALL	175MM THICK AERATED BLOCK WALL	INTUMASTIC	/240/240	35MM GAP	35084000.2	49
LINEAR GAP SEAL	WALL	150MM THICK AERATED BLOCK WALL	INTUSIL	/180/180	35MM GAP	35084000.2	50
LINEAR GAP SEAL	WALL	175MM THICK AERATED BLOCK WALL	INTUSIL	/240/240	35MM GAP	35084000.2	50
LINEAR GAP SEAL	WALL	142MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC HP	/120/120	25MM GAP	52208000.1	21
LINEAR GAP SEAL	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC - BARE TIMBER FRAMING	/120/120	30MM GAP	35256800	60 / 61
LINEAR GAP SEAL	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUMASTIC	/120/120	40MM GAP	35319300	38
LINEAR GAP SEAL	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUSIL - BARE TIMBER FRAMING	/120/120	30MM GAP	35256800	62
LINEAR GAP SEAL	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUSIL	/120/120	40MM GAP	35319300	37
LINEAR GAP SEAL	WALL	150MM THICK CONCRETE WALL	INTUSPAN PRO	/30/30	150MM WIDE GAP	35084000.2	111
LINEAR GAP SEAL	WALL	150MM THICK CONCRETE WALL	INTUSPAN	/120/120	100MM WIDE GAP	35084000.1	53
HEAD OF WALL JOINT	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/120/120	300MM WIDE GAP	35256800	59
WALL - INTUBATT - MASTIC GLUED JOINTS	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC	/240/240	1500 X 1500 VOID	35319300	40
TOP OF SERVICE SHAFT / RISER	WALL	GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC - FIXED TO FRAMING - FIXED AT 2 POINTS	120/120/120		27186.25	H36
TOP OF SERVICE SHAFT / RISER	WALL	GIB / MASONRY / CONCRETE WALL	INTUBATT / INTUMASTIC - FIXED TO FRAMING - FIXED AT 1 POINT	120/120/120		27186.25	H37
BULK HEAD - FRAMED	WALL/ FLOOR	FLOOR THICKNESS OF REQUIRED FRL - WALL- GIB/ CONCRETE/SPEEDWALL	INTUBATT / INTUMASTIC / FRAMING	120 / 120 / 120	1200MM X 600MM OR 1200MM HIGH X INFINITE LENGTH	27186.25	H26/H28/ H30
BULK HEAD - NON FRAMED - SHAFT/ENCLOSURE	WALL/ FLOOR	FLOOR THICKNESS OF REQUIRED FRL - WALL- GIB/ CONCRETE/SPEEDWALL	INTUBATT / INTUMASTIC - FIXED AT 2 POINTS	120/120/120	1200MM X 700MM X INFINITE LENGTH	27186.25	H31
VERTICAL RISERS	WALL	77MM SPEEDWALL / CONCRETE / HEBEL WALL THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED TO FRAMING - FIXED AT 4 POINTS	120/120/120	700 X 1200 X 300MM VOID	27186.25	V34
VERTICAL RISERS	WALL	CONCRETE / MASONRY / HEBEL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 4 SIDES	120/120/120	1200 X 1200 X 4M LONG VOID	27186.25	V30
VERTICAL RISERS	WALL	CONCRETE / MASONRY / HEBEL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 3 SIDES	120/120/120	1200 X 1200 X 4M LONG VOID	27186.25	V31

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<b>SEISMIC/CONSTRUCTION JOINTS</b>							
VERTICAL RISERS	WALL	CONCRETE / MASONRY / HEBEL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 2 SIDES	120/120/120	1200 X 1200 X 4M LONG VOID	27186.25	V32
VERTICAL RISERS	WALL	CONCRETE / MASONRY / HEBEL	INTUBATT / INTUMASTIC - FIXED BETWEEN TWO WALLS	120/120/120	1200 X 1200 X 4M LONG VOID	27186.25	V33
HORIZONTAL LINEAR GAP SEAL	WALL	105MM THICK CROSS LAMINATED TIMBER (CLT)	INTUBATT / INTUMASTIC - FRICTION FIT	/90/90	600MM WIDE X INFINITE LENGTH	27186.25	V37
VERTICAL RISERS	WALL	105MM THICK CROSS LAMINATED TIMBER (CLT)	INTUBATT / INTUMASTIC - FRICTION FIT	/90/90	600MM WIDE X INFINITE LENGTH	27186.25	V36
INTUBATT CEILING	CEILING	INTUBATT CEILING FIXED TO TIMBER FRAME	INTUBATT / INTUMASTIC - DOUBLE LAYER	120/120/120	FULL SCALE TEST	27186.25	H20/21/22/25
BULK HEAD - NON FRAMED	CEILING	GIB CEILING / TIMBER FLOOR	INTUBATT / INTUMASTIC - FIXED TO FRAMING	120/120/120	600MM WIDE X INFINITE LENGTH	27186.25	H23 / H24
BLANK SEAL	CEILING	GIB	INTUBATT / INTUMASTIC	/120/120 (MAX)		27186.25	H38 / H39
BLANK SEAL	FLOOR	CONCRETE / HEBEL FLOOR	INTUBATT / INTUMASTIC - DOUBLE LAYER - BOTH SITTING ABOVE FLOOR LEVEL	/240/240	1000 X 1000 OR 600MM DIA CORE HOLE	27186.25	H10
BLANK SEAL	FLOOR	CONCRETE / HEBEL FLOOR	INTUBATT / INTUMASTIC - DOUBLE LAYER - ONE LAYER PROUD OF FLOOR LEVEL	/240/240	600MM WIDTH - UPTO 2.4M2 AREA	27186.25	H9
BLANK SEAL	FLOOR	CONCRETE / HEBEL FLOOR	INTUBATT / INTUMASTIC - DOUBLE LAYER - ONE LAYER PROUD OF FLOOR LEVEL	/240/240	1000 X 1000 OR 600MM DIA CORE HOLE	27186.25	H6
BLANK SEAL	FLOOR	120MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	440MM WIDE X 4M LONG VOID	27186.25	H11
BLANK SEAL	FLOOR	120MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/120/120	600MM WIDE X UP TO 2.4M2 AREA	27186.25	H8
BLANK SEAL	FLOOR	120MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/120/120	1200 X 600 OR 600MM MAX CORE DRILL VOID	27186.25	H4
BLANK SEAL	FLOOR	120MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/120/120	1200 X 1200 VOID	27186.25	H5
BLANK SEAL	FLOOR	120MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/120/120	4000X 600 VOID	27186.25	H7
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/240/240	1200 X 1200 VOID	27186.25	H2 / H3
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/240/240	1200 X 600 VOID	27186.25	H1

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<b>SEISMIC/CONSTRUCTION JOINTS</b>							
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUCOMPOUND - 100MM THICK	/240/180	800 X 600MM VOID	35256800	68
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/60	500 X 500MM VOID	35256800	64
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - DOUBLE LAYER - FITTED FROM BELOW - 50MM O/LAP	/120/120	500 X 500MM VOID	35256800	65
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - DOUBLE LAYER - WITHIN A GIB LINED OPENING	/120/120	400X450MM VOID	35319300	43
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - SINGLE LAYER - FIXED TO TIMBER FRAMING BELOW	/120/120	400 X 450MM VOID	35319300	42
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	1000 X 400MM VOID	27186.25	H12 / H13 / H14
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT/INTUMASTIC - SINGLE LAYER - FIXED TO LOWER FLOOR SURFACE LEVEL	/120/120	1100 X 400MM VOID	35319300	41
BLANK SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - FIXED TO TIMBER FRAME	/120/60	200MM WIDE VOID	35256800	66
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - TRIPLE LAYER	/240/240	600MM WIDE X INFINITE LENGTH	27186.25	H15 / H17
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - DOUBLE LAYER WITH EXTRA MASTIC FILLET	/240/240	600MM WIDE X INFINITE LENGTH	27186.25	H16
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - SINGLE LAYER	/120/120	440MM WIDE X INFINITE LENGTH	27186.25	H18
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC - SINGLE LAYER - FIXED ABOVE FLOOR SLAB LEVEL	/120/120	400MM WIDE X INFINITE LENGTH	27186.25	H19
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUMASTIC	/180/120	35M GAP	35084000.2	47
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUMASTIC	/180/180	210MM GAP	35084000.2	51
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSIL	/180/180	35MM GAP	35084000.2	48
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSIL - 20MM THICK - FITTED FLUSH WITH TOP OF FLOOR LEVEL	/120/120	80MM GAP	35256800	70
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSIL - 20MM THICK - FITTED FLUSH WITH UNDERSIDE OF FLOOR LEVEL	/120/90	80MM GAP	35256800	71
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSIL	/180/180	120MM GAP	35084000.2	52
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSIL	/120/120	220MM GAP	35256800	67

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<b>SEISMIC/CONSTRUCTION JOINTS</b>							
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSPAN 30X150	/120/0	25MM GAP	35084000.2	106
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSPAN 50X50	/240/60	50MM GAP	35084000.2	107
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSPAN 75X50	/120/60	75MM GAP	35084000.2	108
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSPAN 100 X 75	/240/120	100MM GAP	35084000.2	109
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSPAN - 100 X 100 WITH Z CLIPS	/60/60	100MM GAP	35256800	63
LINEAR GAP SEAL	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSPAN 150 X 150	/240/180	150MM GAP	35084000.2	110
BULK HEAD - NON FRAMED - SHAFT/ENCLOSURE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED AT 2 POINTS	120/120/120	1200MM X 700MM X INFINITE LENGTH	27186.25	H32
BULK HEAD - NON FRAMED - SHAFT/ENCLOSURE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED AT 3 POINTS	120/120/120	600MM X 650MM X INFINITE LENGTH	27186.25	H33 / H34
BULK HEAD - NON FRAMED - SHAFT/ENCLOSURE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED AT 4 POINTS	120/120/120	1200MM X 700MM X INFINITE LENGTH	27186.25	H35
BULK HEAD - FRAMED	WALL/ FLOOR	FLOOR THICKNESS OF REQUIRED FRL - WALL- GIB/CONCRETE/SPEEDWALL	INTUBATT / INTUMASTIC / FRAMING	120/120/120	1200MM X 600MM OR 1200MM HIGH X INFINITE LENGTH	27186.25	H26
BULK HEAD - FRAMED	WALL/ FLOOR	FLOOR THICKNESS OF REQUIRED FRL - WALL- GIB/CONCRETE/SPEEDWALL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 2 SIDES	120/120/120	1200MM X 600MM OR 1200MM HIGH X INFINITE LENGTH	27186.25	H28
BULK HEAD - FRAMED	FLOOR	FLOOR THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 3 SIDES	120/120/120	1200MM X 600MM OR 1200MM HIGH X INFINITE LENGTH	27186.25	H29
BULK HEAD - FRAMED	WALL/ FLOOR	FLOOR THICKNESS OF REQUIRED FRL - WALL- GIB/CONCRETE/SPEEDWALL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 2 SIDES	120/120/120	600MM X 650MM X INFINITE LENGTH	27186.25	H30
BULK HEAD - NON FRAMED	WALL/ FLOOR	FLOOR THICKNESS OF REQUIRED FRL - WALL- GIB/CONCRETE/SPEEDWALL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 2 SIDES	120/120/120	1200MM X 700MM X INFINITE LENGTH	27186.25	H31
BULK HEAD - NON FRAMED	WALL/ FLOOR	FLOOR THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 2 SIDES	120/120/120	1200MM X 700MM X INFINITE LENGTH	27186.25	H32
BULK HEAD - NON FRAMED	FLOOR	FLOOR THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 3 SIDES	120/120/120	1200MM X 650MM X INFINITE LENGTH	27186.25	H33/ H34
BULK HEAD - NON FRAMED	FLOOR	FLOOR THICKNESS OF REQUIRED FRL	INTUBATT / INTUMASTIC - FIXED AT PERIMETER - 4 SIDES	120/120/120	1200MM X 700MM X INFINITE LENGTH	27186.25	H35
BLANK SEAL	FLOOR	175MM THICK CONCRETE FLOOR	INTUCOMPOUND - 100MM THICK	/240/240	600X800MM VOID	35256800	68

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<b>SEISMIC/CONSTRUCTION JOINTS</b>							
LINEAR GAP SEAL	FLOOR	175MM THICK CONCRETE FLOOR	INTUMASTIC	/240/240	210MM GAP	35084000.2	51
LINEAR GAP SEAL	FLOOR	175MM THICK CONCRETE FLOOR	INTUSIL	/240/240	35MM GAP	35084000.2	48
LINEAR GAP SEAL	FLOOR	175MM THICK CONCRETE FLOOR	INTUSIL	/240/240	120MM GAP	35084000.2	52
LINEAR GAP SEAL	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	TBA TITAN FIRE CURTAIN WITH ROCKWOOL BELOW	/120/120	1100MM GAP	FCO-2896	8
LINEAR GAP SEAL	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	TBA TITAN FIRE CURTAIN	/120/60	1100MM GAP	FCO-2896	8
LINEAR GAP SEAL	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	TBA PLUS 60 FIRE CURTAIN	/120/30	1100MM GAP	FCO-2896	8
LINEAR GAP SEAL	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	TBA PHOENIX FIRE CURTAIN	/120/0	1100MM GAP	FCO-2896	8
<b>HVAC</b>							
LORIENT INTUMESCENT DAMPER	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / LORIENT VENT	/120/120	450X450 INTUMESCENT DAMPER	340885000.9	V46
DAMPER - MECHANICAL	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC	/120/120	2400 X 2400 DAMPER	340885000.9	V47
INTUVENT SLEEVE	WALL	145MM THICK WALL - GIB / MASONRY / CONCRETE	INTUVENT SLEEVE	/120/120	152MM DIA OPENING	352568000	72
DAMPER - MECHANICAL	WALL	130MM THICK GIB / MASONRY / CONCRETE	INTUVENT / INTUBATT / INTUMASTIC	/60/30	510 X 260 DUCT	35084000.2	55
DAMPER - MECHANICAL	WALL	130MM THICK CONCRETE / MASONRY WALL	INTUBATT / INTUMASTIC	/120/0	400X400 DUCT	35084000.2	56
STEEL DUCT	WALL	150MM THICK CONCRETE / MASONRY WALL	INTUMASTIC	/120/0	600X300 DUCT	35084000.2	54
DAMPER - MECHANICAL	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/180/0	ACTION AIR	35084000.2	58
DAMPER - MECHANICAL	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUCOMPOUND	/240/0	ACTION AIR	352568000	74
DAMPER - MECHANICAL	FLOOR	150MM THICK CONCRETE / MASONRY FLOOR	INTUBATT / INTUMASTIC	/120/0	ACTION AIR	35084000.2	57
<b>MIXED SERVICE PENETRATION DEVICES</b>							
COPPER PIPES / ARMAFLEX / PVC PIPE / CABLES	WALL	100MM THICK WALL - GIB / MASONRY / SPEEDWALL / CLT	INTUBATT / INTUMASTIC HP	/180/120	BUNDLE	340885000.9	V59
COPPER PIPES /PAIR COIL / PVC PIPE / CABLES	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	SL COLLAR - 110MM DIA	/90/30	25MM PVC PIPE / 5 CABLES / 3 PAIR COIL	46469500.2	D
COPPER PIPES /PAIR COIL / PVC PIPE / CABLES	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	INTUMASTIC HP - 110MM DIA OPENING	/90/60	25MM PVC PIPE / 5 CABLES / PAIR COIL	46469500.2	E



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<b>MIXED SERVICE PENETRATION DEVICES</b>							
COPPER PIPES / ARMAFLEX / PVC PIPE / CABLES	WALL	150MM THICK MASONRY / CONCRETE WALL	INTUMASTIC HP / PENOWRAP	/120/120	9X13MM COPPER PIPES / 20XTPS CABLES/PVC PIPE	23671.04	46
COPPER PIPES / ARMAFLEX / PVC PIPE / CABLES	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC HP	/120/120	9X13MM COPPER PIPES / 20XTPS CABLES/PVC PIPE	340885000.9	V61
COPPER PIPE / CABLE BUNDLE	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	RF COLLAR	/120/120	COPPER PIPE / ALARM CABLES / COMMS CABLES	340885000.9	V17
PVC PIPES / DATA / TPS CABLES / PEX PIPE / BEER LINES	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	RYANFIRE SL COLLAR - INVERTED / INTUMASTIC HP	/90/0	80MM/55MM DIA PVC PIPE/20 MIX CABLES/PEX PIPE / BEER LINE	51028300.1	D
A/C PAIR COIL / TPS CABLES / PVC PIPE	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE	RYANFIRE SL COLLAR - INTUMASTOC HP	/90/0	3 X A/C PAIR COIL / 6 X TPS CABLES / 1 X 32MM DIA PVC PIPE	51028300.1	G
COPPER PIPES / ARMAFLEX / PVC PIPE / CABLES	FLOOR	100MM CONCRETE / MASONRY WALL	INTUMASTIC HP / PENOWRAP	/120/120	9X13MM COPPER PIPES / 20XTPS CABLES/PVC PIPE	23671.4	42
COPPER PIPES / TPS CABLES	FLOOR	100MM CONCRETE / MASONRY WALL	INTUMASTIC HP	/120/120	6 X 13MM DIA COPPER PIPES / 6 X TPS CABLES	23671.4	44
PAIR COIL / PVC PIPE / TPS CABLES	FLOOR	COMPOSITE FLOORS - 65MM THICK CONCRETE	INTUBATTT / INTUMASTIC / INTUMASTIC HP	/120/60	PAIR COIL / 25MM DIA PVC PIPE / TPS CABLES	46812300.1	9
CABLE CONDUIT / PVC PIPE / TPS CABLES	FLOOR	COMPOSITE FLOORS - 65MM THICK CONCRETE	INTUBATT / INTUMASTIC / INTUMASTIC HP / INTUSTRAP	/90/60	50MM DIA PVC / 30MM DIS PEX / 50MM DIA CONDUIT	46812300.1	8
A/FLEX PAIR COIL / CABLES / PVC PIPE	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / INTUMASTIC HP	/180/120	A/FLEX PAIR COIL / CABLES / PVC PIPE	340885000.9	H40
A/FLEX PAIR COIL/CABLES/PVC PIPE - CABLE TRAY/NO TRAY	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / INTUMASTIC HP / PENOWRAP	/120/120	9 X COPPER PIPES / PVC PIPE / 20 X TPS CABLES	340885000.9	H42
CABLES / CONDUITS / TPS CABLES / PVC PIPE	FLOOR	150MM CONCRETE / MASONRY FLOOR	INTUSLEEVE / INTUSIL	/240/60	20 X OPTICAL / 8 X TPS CABLES / 4 X PVC PIPES	35319300	44
<b>MISCELLANEOUS PENETRATIONS</b>							
INSPECTION OPENING	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / INTUSPAN	/120/120	200 X 114MM	340885000.9	V48
TIMBER JOIST	WALL	145MM THICK WALL - CONCRETE / MASONRY / HEBEL WALLS	INTUBATT / INTUMASTIC	/120/120	95MM X 45MM TIMBER	35319300	45

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Service Penetration	Orientation	Substrate	System Description	FRR	Specimen Size	Report No.	ID/Ref
<b>MISCELLANEOUS PENETRATIONS</b>							
TIMBER JOIST	WALL	110MM THICK WALL (MINIMUM) - GIB / MASONRY / HEBEL / 77MM THICK SPEEDWALL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120		340885000.9	V63
STEEL BEAMS	WALL	100MM THICK CONCRETE / MASONRY / HEBEL WALLS	INTUMASTIC HP / PENOWRAP	/120/120	150 / 200 UB	23671.4	47
STEEL BEAMS	WALL	100MM THICK CONCRETE / MASONRY / HEBEL WALLS	INTUBATT / INTUMASTIC	/120/120	U BEAMS	23671.4	52
STEEL BEAMS	WALL	100MM THICK CONCRETE / MASONRY / HEBEL WALLS	INTUBATT / INTUMASTIC	/180/180	U BEAMS	23671.4	52
PURLINS	WALL	100MM THICK CONCRETE / MASONRY / HEBEL WALLS	INTUMASTIC HP / PENOWRAP	/120/120	C PURLINS	23671.4	49
STEEL TILT SLAB PLATES	WALL	100MM THICK CONCRETE / MASONRY / HEBEL WALLS	INTUBATT / INTUMASTIC	/120/120	200X100 PLATE	23671.4	51
THREADED ROD	WALL	100MM THICK CONCRETE / MASONRY / HEBEL WALLS	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	12MM DIA	340885000.9	V65
STEEL BEAMS / PURLINS	WALL/ FLOOR	100MM THICK GIB / MASONRY / CONCRETE WALL / FLOOR TO SUIT FRL	INTUBATT / INTUMASTIC / PENOWRAP	/180/180		340885000.9	V62 / V64
ACCESS HATCH	WALL	116MM THICK WALL - GIB / MASONRY / CONCRETE WALLS	RYANFIRE ACCESS HATCH	/90/0	300X300	46469500.2	C
VENTILLATED ELECTRICAL DOWNLIGHTER COVER	CEILING	GIB - THICKNESS OF THE REQUIRED DRL	RYANFIRE DOWNLIGHTER COVER	/60/60	150 / 200 / 250 / 320 / 420 DIA DOWNLIGHTERS	4863	
THREADED ROD	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC	/120/0	12MM DIA ROD	34088500.9	H19
THREADED ROD	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120	12MM DIA ROD	34088500.9	H46
STEEL BEAMS / PURLINS	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/180/180		34088500.9	H43/ H45
TIMBER JOIST	FLOOR	FLOOR THICKNESS OF THE REQUIRED FRL	INTUBATT / INTUMASTIC / PENOWRAP	/120/120		34088500.9	H44
TIMBER JOIST	FLOOR	150MM THICK CONCRETE FLOOR	INTUBATT / INTUMASTIC	/240/180	95X45MM TIMBER	35319300	46