CIRCULAR
＂Super STOPPER

## SuperSTOPPER ${ }^{\oplus}$



The SuperSTOPPER ${ }^{\circledR}$ is an advanced retrofit multi－ service penetration system engineered to effectively contain and prevent the spread of fire through narrow service penetrations，all within a remarkably compact design．This innovative product，tested with the Fyre BOX range，has undergone extensive rigorous testing with various combinations of service types and bundles within standard wall，ceiling and floor fire barriers． It proudly stands as one of the most extensively fire－ tested solutions globally，boasting industry－leading Fire Resistance Levels（FRLs）of up to－／240／240 （system specific）．

YOU NO LONGER HAVE TO TRY AND FIT A SQUARE BOX IN A ROUND HOLE！

## KEY FEATURES

－Allows multiple and mixed services to pass through one opening
－Circular shape for ease of making holes
－Mixed services approved in any quantity or configuration
－Retro－fit or new construction
－Space saving，eliminates the need for 200 mm separation between adjacent services
－Tested in Hebel ${ }^{\circledR}$ ，single／double layer plasterboard， Speedpanel ${ }^{\circledR}$ and many other common wall／floor systems
－Friendly FyreFLANGE for mounting
－Fire tested in independent laboratories
－Fire tested on ceilings
－Thoroughly tested to AS1530．4－2014
－No need to frame／line plasterboard wall penetrations


## TRADES



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## "SupersTOPPER

Contents:
"Super STOPPER-cIrcular

## Ideal for fire sealing of circular holes that are cut in Fire Barriers



## SuperSTOPPER ${ }^{\text {® }}$ SYSTEMS COMPONENTS

| Item Number | Description | Min Order Qty | Pallet Qty |
| :---: | :---: | :---: | :---: |
| FLANGE-R-50mm | to suit SUPERSTOPPER-C-50 | part of assembly | Learn More |
| FLANGE-R-100mm | to suit SUPERSTOPPER-C-100 | part of assembly | Learn More |
| FLANGE-R-150mm | to suit SUPERSTOPPER-C-150 | part of assembly | Learn More |
| FYREFLEX 300W/G | 300ml White/Grey Cartridge | 20 | 1440 |
| FYREFLEX 600W/G | 600ml White/Grey Sausage | 20 | 1440 |
| TWRAP 300 | 300 mm wide, 25 mm thick blanket | 7620 mm long roll | 24 |
| TWRAP 450 | 450 mm wide, 25 mm thick blanket | 7620 mm long roll | 12 |
| TWRAP 600 | 600 mm wide, 25 mm thick blanket | 7620 mm long roll | 12 |

## SUPERSTOPPER

## WHY SuperSTOPPER ${ }^{\circledR}$ ?

Trafalgar's SuperSTOPPER ${ }^{\circledR}$ Circular stands as a cutting-edge solution for containing not just fire but also a range of other crucial elements within service penetrations in modern-day buildings. It was meticulously developed to provide the ultimate in containment or SUPER containment properties, addressing various needs, including fire, smoke, sound, energy, air leakage, and even the challenges of stringent seismic movements. The SuperSTOPPER is the answer to today's multifaceted containment requirements.

Innovatively engineered with an intumescent lining, the SuperSTOPPER ${ }^{\circledR}$ effectively halts the spread of fire through openings. The FyreBOX Range, akin to versatile fire-rated holes, is designed to adapt seamlessly to diverse scenarios. The circular shape of the SuperSTOPPER ${ }^{\circledR}$ is not only functional but also practical, allowing for quick, neat, and cost-effective hole preparations in fire barriers. Whether it's a core hole in a concrete floor slab or a hole saw in a plasterboard wall, openings can be conveniently sized to accommodate a SuperSTOPPER.

The standout feature of the SuperSTOPPER ${ }^{\circledR}$ is its fast response to fire exposure. As a fire takes hold, the intumescent material inside the FyreBOX expands swiftly, forming a robust and tight seal around the services, and it's even capable of crushing plastic pipes if necessary. Each SuperSTOPPER ${ }^{\circledR}$ is equipped with intumescent foam plugs, further enhancing its reliability, minimizing smoke leakage, and improving acoustic properties. Additionally, this design takes into account future modifications, making it adaptable to changes, additions, and moves in services.

One of the key advantages of the SuperSTOPPER ${ }^{\circledR}$ is its extensive fire testing, which covers both empty and full states. Rigorous testing has been undertaken to account for a wide spectrum of service types, including multiple and mixed services. This eliminates the need to separate service penetrations, offering contractors the convenience of running various services through a single penetration.


## FyreFLANGE FOR SuperSTOPPER ${ }^{\circledR}$

## SYSTEM APPLICATIONS

SuperSTOPPER ${ }^{\circledR}$ Circular systems are suitable for use in any building where penetrations are made through fire rated plasterboard, Speedpanel ${ }^{\circledR}$, Hebel ${ }^{\circledR}$, Walsc ${ }^{\circledR}$, Pronto Panel, FyreBOARD Maxilite ${ }^{\circledR}$, masonry/concrete walls and concrete floors. They have been tested and approved for the following services:

- Electrical (copper and alumnium) cables
- Data, communication cables and NBN and other fibre cables
- Steel and copper pipes
- Pair coil and CHW pipes (copper and PEX)
- Heat trace cables
- CPVC sprinkler pipes
- Small conduits
- PVC pipes (floors only)
- PEX and Gas PEX-AL-PEX
- NBN and other fibre cables


## WHAT IS FYREFLANGE?

Every SuperSTOPPER ${ }^{\circledR}$ system now includes the Trafalgar FyreFLANGE for seamless integration with the Superstopper. This square and innovative component is designed to accommodate real-world annular gaps in fire barriers. The Trafalgar FyreFLANGE provides a friction-fit solution for securely positioning the SuperSTOPPER ${ }^{\circledR}$ without requiring any drilling into the fire barrier. The latest testing has demonstrated that with the FyreFLANGE mounting brackets, the SuperSTOPPER ${ }^{\circledR}$ or Maxi can effectively cover annular gaps of up to 20 mm , expanding its suitability for a broader range of penetrations. In situations where even larger annular gaps are encountered on-site, you can contact Trafalgar Fire for custom mounting flange systems, or opt for the use of FyreBOARD Maxilite ${ }^{\circledR}$. This enhanced flexibility makes the SuperSTOPPER ${ }^{\circledR}$ system a versatile choice for fire protection needs.

## "Fureflange

| Product | Depth mm | Height mm | Width mm | FyreFLANGE Dimensions |
| :---: | :---: | :---: | :---: | :---: |
| FyreFLANGE Mini Round 50 | 16 | 110 | 110 |  |
| FyreFLANGE Mini Round 100 | 16 | 160 | 160 |  |
| FyreFLANGE Mini Round 150 | 16 | 210 | 210 |  |

tfire.com.au | $1800888 \mathbf{7 1 4}$

## SUPERSTOPPER

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## SYSTEM SELECTOR



For full FRL details please consult the relevant technical guide or contact Trafalgar Fire. Fire testing of Trafalgar Fire products is always ongoing.

## FIRE RATING - HOW IS FIRE PERFORMANCE MEASURED?

An FRL (fire resistance level) is a handy way of summarising the performance of a building element. It consists of 3 numbers, all given in minutes:

## FRL 120/120/120



## Structural Adequacy

The ability of the building element to support the weight of adjacent building elements.
ie: a brick wall supporting a concrete floor slab above.
(example)


## Integrity

The ability of an element to prevent the passage of flames and hot gasses.
ie: a plasterboard wall remaining intact and not allowing holes to form.


## Insulation

The ability of an element to resist heat transfer from the exposed face to the unexposed face.
ie: a bundle of cables remaining below a set temperature limit on the unexposed side of the wall penetration system.

Penetrations are not required to have a Structural Adequacy rating and is usually expressed as a dash. For example, a penetration through a 2-hour load bearing wall would be written as -/120/120.

## INTEGRITY

The SuperSTOPPER ${ }^{\circledR}$ system will achieve the integrity performance for up to 2 hours physically stopping the direct spread of fire, however the insulation performance of the penetration will be limited to the type of wall being used and conductivity of the services in the penetration.

## INSULATION (TEMPERATURE RISE)

Heat transfer via conduction (or heat rise) will occur through the conductive parts of any penetration system. To limit the heat rise through the SuperSTOPPER ${ }^{\circledR}$ penetration systems, our 25 mm thick TWRAP foil encased blanket can be wrapped around the services and metal casing of the FyreBOX to achieve up to 2 hours of insulation performance. There are some applications that won't require any TWRAP to achieve the full FRL, please refer to the tables below for specific details.

Click

60 MINUTE PLASTERBOARD STUD

## WALLS-WRAP FREE!

Minimum of 13 mm fire grade plasterboard on each face of steel or timber stud, of minimum 64 mm thickness with a stated FRL of -/60/60

PATCH FREE! WRAP FREE!

| Service Type | Service Specification |  | FRL - WRAP FREE |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | 64 mm stud* | 92 mm studs |
| Plastic Pipes | PVC Pipes | Up to 32 mm OD | -/60/30 | -/60/60 |
|  | PEX Pipes | Up to 20 mm | -/60/30 | -/60/60 |
|  |  | Up to 32 mm | -/60/30 | -/60/60 |
|  |  | Up to 32 mm with 19 mm E-Flex insulation | -/60/30 | -/60/60 |
|  | PEX-AI-PEX pipes | Up to 25 mm | -/60/30 | -/60/60 |
|  |  | Up to 32 mm | -/60/- | -/60/-* |
|  |  | Up to 32 mm with 19 mm E-Flex insulation | -/60/30 | -/60/60 |
|  | cPVC Pipes | Up to 40 mm | -/60/- | -/60/-* |
|  |  | 40 mm to 60 mm | -/60/30 | -/60/60 |
| Bare Metal Pipes | Copper | Up to 50 mm | -/60/- | -/60/-* |
|  | Steel | up to 60 mm | -/60/30 | -/60/60 |
| Metal Pipes Insulated** | Copper | Up to 50 mm OD with PE insulation up to 20 mm thick | -/60/30 | -/60/30* |
|  |  | Up to 50 mm OD with FR insulation | -/60/30 | -/60/60 |
|  |  | Up to 20 mm OD with 38 mm rockwool-type insulation | -/60/30 | -/60/60 |
|  | Pair coil | Up to 9.5 \& 19 mm with 20 mm FR insulation (or 13 mm PE ) | -/60/30 | -/60/60 |
| Power Cables Copper Core | TPS | Up to $12 \times 2.5 \mathrm{~mm}^{2}$ per bundle | -/60/30 | -/60/60 |
|  | Rigid or Flexible PVC Conduits | Up to 32 mm OD (with any size power or comms cables up to 32 mm diameter) | -/60/30 | -/60/60 |
|  | AS1530.4 Appendix D1 cable set | Applies to copper core power cables | -/60/30 | -/60/30* |
| Power Cables Aluminium Core | Single Core cables | Bundles of up to $3 \times 240 \mathrm{~mm}^{2}$, $4 \times 120 \mathrm{~mm}^{2}$ and $9 \times 70 \mathrm{~mm}^{2}$ per bundle ( $16 \times$ cables total) | -/60/30 | -/60/30* |
| mmunications Cables | RG6 coax | Up to 3 x per bundle | -/60/30 | -/60/60 |
|  | AS1530.4 Appendix D2 cable set | Applies to copper core comms cables | -/60/30 | -/60/60 |
| Conduits | Rigid or Flexible PVC Conduits | Up to 32 mm OD (with any size power or comms cables up to 32 mm diameter) | -/60/30 | -/60/60 |

*TWrap required on these specific services to acheieve -/60/60 FRL. Refer to FC10266 for details in specific wall types.
**With or without heat trace cable.

## SupersTOPPER

Click

## 90 MINUTE PLASTERBOARD STUD WALLS

Minimum of 16 mm fire grade plasterboard on each face of a steel or timber stud of minimum 64 mm thickness, with a stated FRL of -/90/90.


## SuperSTOPPER

## 120 MINUTE PLASTERBOARD STUD WALLS

Minimum of $2 \times 13 \mathrm{~mm}$ fire grade plasterboard on each face of steel or timber stud, of minimum 64 mm thickness with a stated FRL of -/120/120. Please note SuperSTOPPER ${ }^{\circledR}$ does not require the penetration to be lined and framed.


## SuperSTOPPER

## 60 MINUTE XCEM ALPHA <br> PANEL WALLS

Type 1-35mm Alpha Panel, framed with stud and lined on the other face with 13 mm plasterboard ( 88 mm minimum thickness) shown on the right.
Type 2-35mm Alpha Panel, framed with stud on both sides, lined on both faces with 13 mm plasterboard ( 200 mm minimum thickness) not shown.

*Heat trace cables may be installed underneath thermal lagging through a FyreBOX penetration

## SuperSTOPPER

## 90 MINUTE XCEM ALPHA PANEL WALLS

Type 3-35mm Alpha Panel, framed with stud and lined on the other face with 16 mm fire grade plasterboard ( 91 mm minimum thickness).
Type 4-35mm Alpha Panel laminated with 16mm fire grade plasterboard, shown on the right.

|  | Service |
| :---: | :---: |
| PVC Conduits |  |
| PEX Pipes |  |
| PEX-AI-PEX pipes |  |
| cPVC Pipes |  |
| Copper |  |
| Steel |  |

## 90 MINUTE AAC PANELS

Hebel, Waslc or other AAC panels 75 mm thick with a stated FRL up to -/90/90. Note if this wall is used for a-/60/60 apartment entry, please refer to page 9 .


| Service Type |  | Service Specification | $\begin{gathered} \text { FRL - WRAP } \\ \text { FREE } \end{gathered}$ | FRL-With 300 mm TWRAP |
| :---: | :---: | :---: | :---: | :---: |
| Plastic Pipes | PVC Pipes | Up to 32 mm OD | -/90/30 | -/90/90 |
|  | PEX Pipes | Up to 20 mm | -/90/30 | -/90/90 |
|  |  | Up to 32 mm | -/90/30 | $\begin{gathered} -/ 90 / 90 \\ \text { (450mm TWrap) } \end{gathered}$ |
|  |  | Up to 32 mm with 19 mm E-Flex insulation | -/90/30 | -/90/90 |
|  | PEX-Al-PEX pipes | Up to 20 mm | -/90/30 | -/90/90 |
|  |  | Up to 25 mm | -/90/30 | -/90/90 |
|  |  | Up to 32 mm | -/90/0 | -/90/90 <br> (450mm TWrap) |
|  |  | Up to 32 mm with 19 mm E-Flex insulation | -/90/30 | -/90/90 |
|  | cPVC Pipes | Up to 40 mm | -/90/0 | -/90/90 |
|  |  | 40 mm to 60 mm | -/90/30 | -/90/90 |
| Bare Metal Pipes | Copper | Up to 50 mm | -/90/0 | -/90/90 |
|  | Steel | up to 60 mm | -/90/30 | -/90/90 |
| Metal Pipes Insulated* | Copper | Up to 50 mm OD with PE insulation up to 20 mm thick | -/90/30 | -/90/90 |
|  |  | Up to 50 mm OD with FR insulation | -/90/30 | -/90/90 |
|  |  | Up to 20 mm OD with 38 mm rockwool-type insulation | -/90/30 | -/90/90 |
|  | Pair coil | Up to 9.5 \& 19mm with 13 mm PE insulation | -/90/30 | -/90/90 |
|  |  | Up to 9.5 \& 19mm with 20 mm FR insulation | -/90/30 | -/90/90 |
| Power Cables Copper Core | TPS | Up to $12 \times 2.5 \mathrm{~mm}^{2}$ per bundle | -/90/30 | -/90/90 |
|  | AS1530.4 Appendix D1 cable set | Applies to copper core power cables | -/90/30 | -/90/90 |
|  | Rigid or Flexible <br> PVC Conduits | Up to 32 mm OD (with any size power or comms cables up to 32 mm diameter) | -/90/30 | -/90/90 |
| Power Cables Aluminium Core | Single Core cables | Bundles of up to $3 \times 240 \mathrm{~mm}^{2}, 4 \times 120 \mathrm{~mm}^{2}$ and $9 \times 70 \mathrm{~mm}^{2}$ per bundle ( 16 x cables total) | -/90/30 | -/90/90 |
| Communications Cables | RG6 coax | Up to 3x per bundle | -/90/30 | -/90/90 |
|  | AS1530.4 Appendix D2 cable set | Applies to copper core comms cables | -/90/30 | -/90/90 |
| Conduits | Rigid or Flexible PVC Conduits | Up to 32 mm OD (with any size power or comms cables up to 32 mm diameter) | -/90/30 | -/90/90 |

## 120 MINUTE AAC PANELS

Hebel, Waslc or other AAC panels 75 mm thick with a stated FRL up to -/120/120.


*With or without heat trace cable
\#With 300 mm of loose TWrap infill packed around the services within the wrap.

## 120 MINUTE CONCRETE, MASONRY AND PERMANANT FORMWORK WALLS

Walls designed as per AS3600 or AS3700 (or otherwise fire tested to achevied the required FRL with a minimum thickness as per the 90 mm ) including Dincel, AFS, Logicall etc.

Click

| Service Type | Service Specification |  | FRL (Wrap Free) | FRL with TWRAPTM (all studs) | TWRAP ${ }^{\text {TM }}$ <br> Length required (mm) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Plastic Pipes | PVC Pipes | Up to 32 mm OD | -/120/60 | -/120/120 | 300 |
|  | PEX Pipes | Up to 20 mm | -/120/60 |  | 300 |
|  |  | Up to 32 mm | -/120/60 |  | 450 |
|  | PEX-AI-PEX pipes | Up to 20 mm | -/120/60 |  | 300 |
|  |  | Up to 25 mm | -/120/60 |  | 450 |
|  |  | Up to 32 mm | -/120/0 |  | 450 |
|  | cPVC Pipes | Up to 40mm | -/120/0 |  | 300 |
|  |  | 40 mm to 60 mm | -/120/60 |  | 300 |
| Bare Metal Pipes | Copper | Up to 50 mm | -/120/0 |  | 300 |
|  | Steel | up to 60 mm | -/120/60 |  | 300 |
| Metal Pipes Insulated* | Copper | Up to 50 mm OD with PE insulation up to 20 mm thick | -/120/60 |  | 300 |
|  |  | Up to 50 mm OD with FR insulation | -/120/60 |  | 300 |
|  |  | Up to 20 mm OD with 38 mm rockwool-type insulation | -/120/60 |  | 300 |
|  | Pair coil | Up to 9.5 \& 19mm with 13 mm FR insulation | -/120/60 |  | 300 |
|  |  | Up to 9.5 \& 19mm with 20 mm FR insulation | -/120/60 |  | 300 |
| Power Cables Copper Core | TPS | Up to $12 \times 2.5 \mathrm{~mm}^{2}$ per bundle | -/120/60 |  | 300 |
|  | AS1530.4 Appendix D1 cable set | Applies to copper core power cables | -/120/60 |  | 600 |
| Power Cables Aluminium Core | Single Core cables | $\begin{gathered} \text { Bundles of up to } 3 \times 240 \mathrm{~mm}^{2}, \\ 4 \times 120 \mathrm{~mm}^{2} \text { and } \\ 9 \times 70 \mathrm{~mm}^{2} \text { per bundle ( } 16 \times \text { cables total) } \end{gathered}$ | -/120/30 |  | 300 |
| Communications Cables | RG6 coax | Up to $3 x$ per bundle | -/120/60 |  | 300 |
|  | AS1530.4 Appendix D2 cable set | Applies to copper core comms cables, | -/120/60 |  | 450 |
| Conduits | Rigid or Flexible PVC Conduits | Up to 32 mm OD (with or without cables) | -/120/60 |  | 300 |
| Drinks python*** | Lagged post mix lines | 90mm OD 10x post mix lines with 19mm FR thermal lagging | NA |  | 300 |

*With or without heat trace cable.
${ }^{* * *}$ Applies to SuperSTOPPER ${ }^{\circledR}$-R-150 only.

## 240 MINUTE CONCRETE, MASONRY AND PERMANANT FORMWORK WALLS

Walls designed as per AS3600 or AS3700 or otherwise fire tested to achevie an FRL of at least-/240/240, i ncluding Dincel, AFS, Logicall etc.


| Service Type | Service Specification |  | FRL no wrap required | FRL with TWRAP | TWRAP Length required |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Plastic Pipes | uPVC conduits Rigid or flexible (with or without cables) | up to 25 mm OD | -/240/120 | Wrap Free | - |
| Bare Metal Pipes | Copper pipes | up to 50 mm OD | -/240/- | -/240/120 | 300 mm |
|  | Steel pipes | up to 50 mm OD | -/240/60 | -/240/120 | 300 mm |
| Insulated Metal pipes | Copper pipes | up to 50 mm OD with PE insulation up to 20 mm thick | -/120/60 | -/120/120 | 300 mm |
|  |  | up to 50 mm OD with FR insulation | -/120/60 | -/120/120 | 300 mm |
|  |  | up to 20 mm OD with rockwool-type insulation | -/120/60 | -/120/120 | 300mm |
|  | 2 P Pair Coil | Up to 9.5 and 19mm OD with FR insulation up to 20 mm thick | -/240/180 | Wrap Free | - |
|  | Pair coil pipes | up to 9.5 and 19 mm OD with PE insulation up to 13 mm thick | -/240/120 | -/120/120 | 300 mm |
|  |  | up to 9.5 and 19 mm OD with FR insulation up to 20 mm thick | -/240/120 | -/120/120 | 300mm |
| Power Cables | $5 \times 19 \mathrm{~mm}$ OD 3C+E copper cables |  | -/240/180 | Wrap Free | - |
|  | Three core and Earth copper core cables up to 185 mm 2 (up to 54 mm diameter) |  | -/240/60 | -/120/120 | 600mm |
|  | All other copper core power cables |  | -/240/60 | -/120/120 | 600 mm |
| Comms Cables | $20 \times$ CAT6 cable bundle |  | -/240/180 | Wrap Free | - |
|  | All other copper core power cables |  | -/120/60 | -/120/120 | 450mm |
| PVC conduits | uPVC conduits Rigid or flexible (with or without cables) | Up to 25 mm OD | -/240/180 | Wrap Free | - |

Where TWRAP is required for increased insulation performance, it is to be installed on both sides of the wall.

## SPEEDPANEL® ${ }^{\circledR}$ WALLS

Speedpanel walls of thickness ranging from $51 \mathrm{~mm}(-/ 60 / 60), 64 \mathrm{~mm}$ (-/90/90) and $78 \mathrm{~mm}(-/ 120 / 120)$.

Note 51 mm and 64 mm Speedpanel walls required additional patch of 30 mm Maxilite board on one side of the wall.


*300mm loose TWrap infill underneath Twrap
** Maximum FRL-/90/90
\#With or without heat trace cable
For specific service based FRL's without using TWrap, refer to report FC10266

## SuperSTOPPER

## LAMINATED PLASTERBOARD SHAFT WALLS

Minimum of $3 x$ fire grade plasterboard on one side of a steel stud with a stated FRL of 90 or 120 minutes. FyreBOX penetration thicknenned with 60 mm Maxilite in 100 mm strips on one side of the penetration.



## SuperSTOPPER

## TRAFALGAR COREX SHAFT WALLS

$2 x$ laminated Corex boards fixed to one side of a 64 mm steel stud. FRL of the wall is related to thickness of the Corex facings as shown in the table. Click here for the Corex Shaft Wall technical Manual.


| Service Type | Service Specification |  | Corex Board Specification \& FyreBOX Penetration FRL* |  |  | TWrap Length required (mm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $2 \times 15 \mathrm{~mm}$ | $2 \times 20 \mathrm{~mm}$ | $2 \times 25 \mathrm{~mm}$ |  |
| Plastic Pipes | PVC Pipes | Up to 32 mm OD | -/60/60 | -/90/90 | -/120/120 | 450 |
|  | PEX Pipes | Up to 20 mm |  |  |  | 450 |
|  |  | Up to 32 mm |  |  |  | 450 |
|  |  | Up to 32 mm with 19 mm E -Flex insulation |  |  |  | 450 |
|  | PEX-Al-PEX pipes | Up to 20 mm |  |  |  | 450 |
|  |  | Up to 25 mm |  |  |  | 450 |
|  |  | Up to 32 mm |  |  |  | 450 |
|  |  | Up to 32 mm with 19 mm E-Flex insulation |  |  |  | 450 |
|  | cPVC Pipes | Up to 40 mm |  |  |  | 450 |
|  |  | 40 mm to 60 mm |  |  |  | 450 |
| Bare Metal Pipes | Copper | Up to 50 mm |  |  |  | 450 |
|  | Steel | up to 60 mm |  |  |  | 450 |
| Metal Pipes Insulated** | Copper | Up to 50 mm OD with PE insulation up to 20 mm thick |  |  |  | 450 |
|  |  | Up to 50 mm OD with FR insulation |  |  |  | 450 |
|  |  | Up to 20 mm OD with 38 mm rockwooltype insulation |  |  |  | 450 |
|  | Pair coil | Up to 9.5 \& 19 mm with 13 mm PE insulation |  |  |  | 450 |
|  |  | Up to 9.5 \& 19 mm with 20 mm FR insulation |  |  |  | 450 |
| Power Cables Copper Core | TPS | Up to $12 \times 2.5 \mathrm{~mm}^{2}$ per bundle |  |  |  | 450 |
|  | AS1530.4 Appendix D1 cable set | Applies to copper core power cables and cable trays up to 1000 mm wide |  |  |  | 450 |
| Power Cables Aluminium Core | Single Core cables | Bundles of up to $3 \times 240 \mathrm{~mm}^{2}, 4 \times$ $120 \mathrm{~mm}^{2}$ and $9 \times 70 \mathrm{~mm}^{2}$ per bundle (16x cables total) |  |  |  | 450 |
| Communications Cables | RG6 coax | Up to $3 \times$ per bundle |  |  |  | 450 |
|  | AS1530.4 Appendix D2 cable set | Applies to copper core comms cables, including cable trays up to 1000 mm wide |  |  |  | 450 |
| Conduits | Rigid or Flexible PVC Conduits | Up to 32 mm OD (with or without cables) |  |  |  | 450 |

For Corex walls, the wall must be thickened on one side with 100 mm wide Maxilite, 60 mm thick around the penetration.
*For specific service based FRL's without using TWrap, refer to report FC10266.
**Heat trace cables may be installed underneath thermal lagging through a FyreBOX penetration

## Superstopper

## 2 HOUR FRL SLABS MINIMUM THICKNESS 120MM

Concrete floors with our without steel decks with an effective minimum thickness of 120 mm .


| Service Type | Service Specification |  | FRL - Wrap Free | FRL - With TWrap | TWrap Length (mm) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Blank (No Ser- | 20x20mm Fillet of Fyreflex Sealant applied to perimeter of Fyrebox Cast In (not required when TWrap applied) |  | -/120/120 | Wrap Free | N/a |
| Plastic Pipes | PEX pipes | up to 32 mm OD | -/120/- | -/120/120 | 450 |
|  | PEX-AI-PEX pipes | up to 32 mm OD | -/120/- | -/120/120 | 450 |
|  | PVC pipes | up to 80 mm OD | -/120/- | -/120/120 | 300 |
| Bare Metal Pipes | Copper pipes | up to 42 mm OD | -/120/- | -/120/120 | 450 |
|  |  | up to 100 mm OD | -/120/- | -/120/120 | $\begin{aligned} & 600 \text { 1 }^{\text {st }} \text { Layer + } \\ & 450 \text { 2 }^{\text {nd }} \text { Layer }^{\wedge} \end{aligned}$ |
|  | Steel pipes | up to 50 mm OD | -/120/- | -/120/120 | 450 |
|  |  | up to 100 mm OD | -/120/- | -/120/120 | $\begin{aligned} & 600 \text { 1 }^{\text {st }} \text { Layer + } \\ & 450 \text { 2 }^{\text {nd }} \text { Layer } \end{aligned}$ |
| Metal Pipes Insulated* | Copper pipes | up to 50 mm OD with FR insulation | -/120/60 | -/120/120 | 300 |
|  | Stainless Steel pipes | Up to 50 mm OD with EPS or PE insulation and rockwool | -/120/60 | -/120/120 | 300 |
|  | Pair Coils | Up to 9.5 \& 19mm with up to 20 mm FR insulation (OR 13 mm PE ) with 10 mm OD cable | -/120/60 | -/120/120 | 450 |
| Power Cables - Aluminium Core*** | 4x Core AL cables | Up to $4 \times 240 \mathrm{~mm}^{2}+$ optional $90 \mathrm{~mm}^{2}$ | -/90/30 | -/120/120 | 300 |
|  | Single core AL cables | Up to $1 \times 400 \mathrm{~mm}^{2}$ | N/a | -/120/120 | 300 |
| Power Cables | TPS cables | Up to 10x per bundle | -/120/60 | -/120/120 | 300 |
|  | $3 x$ Core cables | 19 mm diam $3 \mathrm{C}+\mathrm{E}$ cables | -/120/60 | -/120/120 | 300 |
|  | AS1530.4 Appendix D cable set (no cable tray) | Applies to all copper core power cables | -/120/30 | -/120/120 | $\begin{gathered} 600 \\ (\mathrm{~min} .190 \mathrm{~mm} \text { slab) } \end{gathered}$ |
| Comms Cables | AS1530.4 Appendix D cable sets | Copper core comms cables | -/120/60 | -/120/120 | 450 (Min. 190 mm slab) Or 600 mm |
|  | Fibre Optic cables | NBN grade cable | -/120/30 | -/120/120 | 300 |
|  | CAT6 | Up to 150x per bundle | -/120/60 | -/120/120 | 300 |
| Conduits | uPVC Conduits Rigid or Flexible | Up to 32 mm OD (with or without cables) | -/120/60 | -/120/120 | 300 |
| Drinks python*** | Lagged post mix lines | 90mm OD 10x post mix lines with 19mm FR thermal lagging | -/120/120 | -/120/120 | Wrap Free |

^Large metal pipes require 2 layers of TWrap. Refer to page 21

## SuperSTOPPER

## 3-4 HOUR FRL SLABS MINIMUM THICKNESS 175MM

Concrete floors with our without steel decks with an effective minimum thickness of 175 mm .

## FIRE RATED CEILINGS

The SuperSTOPPER ${ }^{\circledR}$ systems are tested and approved for use in various ceilings including Corex board and plasterboard ceilings that meet the requirements listed. Penetrations MUST be lined with 60 mm Maxilite board as shown in the installation drawings.

| Timber or steel framed ceiling construction |  |  |
| :--- | :--- | :--- |
| Ceiling facing thickness | FRL | RISF |
| Minimum thickness 16 mm | $-/ 30 / 30$ | 30 mins |
| Minimum thickness 29 mm | $-/ 60 / 60$ | 60 mins |
| Minimum thickness 32 mm | $-/ 90 / 90$ | 60 mins |
| Minimum thickness 48 mm | $-/ 120 / 120$ | 60 mins |



The FRL's listed below against service penetrations are are limited to the FRL and RISF rating of the ceiling system they are installed into.

| Service Type | Service Specification |  | FRL - Wrap Free | RISF - With TWrap | TWrap Length (mm) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Plastic Pipes | PEX pipes | up to 32 mm OD | -/120/120 | -/120/120 | 300 |
|  | PEX-AI-PEX pipes | up to 32 mm OD | -/120/120 | -/120/120 | 300 |
|  | PVC pipes | up to 80 mm OD | -/120/120 | -/120/120 | 300 |
| Bare Metal Pipes | Copper pipes | up to 42 mm OD | -/120/120 | -/120/120 | 300 |
|  |  | up to 100 mm OD | -/120/120 | -/120/120 | 600 |
|  | Steel pipes | up to 50 mm OD | -/120/120 | -/120/120 | 300 |
|  |  | up to 100 mm OD | -/120/120 | -/120/120 | 600 |
| Metal Pipes Insulated* | Copper pipes | up to 50 mm OD with FR insulation | -/120/- | -/120/120 | 300 |
|  | Stainless Steel pipes | Up to 50 mm OD with EPS or PE insulation and rockwool | -/120/- | -/120/120 | 300 |
|  | Pair Coils | Up to 9.5 \& 19 mm with up to 20 mm FR insulation (OR 13 mm PE) with 10 mm OD cable | -/120/- | -/120/120 | 300 |
| Power Cables <br> - Aluminium <br> Core*** | 4 x Core AL cables | Up to $4 \times 240 \mathrm{~mm}^{2}+$ optional $90 \mathrm{~mm}^{2}$ | -/90/30 | -/90/90 | 300 |
|  | Single core AL cables | Up to $1 \times 400 \mathrm{~mm}^{2}$ | -/90/30 | -/90/90 | 300 |
| Power Cables Copper Core | TPS cables | Up to 10x per bundle | -/120/120 | -/120/120 | 300 |
|  | $3 x$ Core cables | 19 mm diam $3 \mathrm{C}+\mathrm{E}$ cables | -/120/120 | -/120/120 | 300 |
|  | AS1530.4 Appendix D cable sets on cable trays | Applies to all copper core power cables and cable trays up to 1000 mm wide | -/120/120 | -/120/120 | 600 |
| Comms Cables | AS1530.4 Appendix D cable sets on cable trays | Copper core comms cables and cable trays up to 1000 mm wide | -/120/30 | -/120/120 | 450 |
|  | Fibre Optic cables | NBN grade cable | -/120/120 | -/120/120 | 300 |
|  | CAT6 | Up to 150x per bundle | -/120/120 | -/120/120 | 300 |
| Conduits | uPVC Conduits Rigid or Flexible | Up to 32 mm OD (with or without cables) | -/120/120 | -/120/120 | 300 |

## INSTALLATION SuperSTOPPER ${ }^{\text {® }}$ in $W$ alls

## ALL WALLS



Cut a hole in the barrier allowing for an appropriate annular gap ( $5-20 \mathrm{~mm}$ between the edge of the hole and the walls of the SuperSTOPPER ${ }^{\circledR}$ ). Example: for a 100 mm SuperSTOPPER ${ }^{\circledR}$-R, cut a maximum hole 140 mm diameter.

Note SuperSTOPPER ${ }^{\circledR \prime}$ 's do not require openings to be framed with stud or lined with plasterboard.


Insert the SuperSTOPPER ${ }^{\text {® into }}$ the hole, and centre it to the wall or floor. NOTE: if barrier is too thick, contact Trafalgar Fire for alternative installations.
Seal the annular gap around the FyreBOX with FyreFLEX ${ }^{\circledR}$ Sealant to 20 mm depth, on both sides of the wall.

Please note: The SuperSTOPPER ${ }^{\oplus}$ can be installed before or after the services are in place, the hinged design allows for the box to be retro fit around services, or services can be run once the box is in place.


Install the steel mounting flange to both sides of the wall, or just the top side of a concrete floor. When fitting the orange flanges, use the fixings to suit the wall or floor type as per table 1 on page 24, using $2 x$ fixings per flange.

FOAM


Cut a slit through the FyreBOX foam plug inserts and notch out holes to suit the services that are installed, then fit the foam in the box around the services. Foam is needed on both sides of a wall, but only the top side of a concrete slab penetration.
The fit should be snug, fill any gaps with intumescent (black) foam off-cuts, or FyreFLEX ${ }^{\circledR}$ Sealant.


## INSTALLATION SuperSTOPPER ${ }^{\circledR i n}$ Walls

## ALL WALLS



Where required, wrap the services with the appropriate length of TWRAP (per FRL tables above). The TWRAP should overlap itself around the pipe by 50 mm , if two strips are required to meet the appropriate length, then where the second length meets the first, a 50 mm overlap is required.

TWRAP is secured to the service using steel cable ties, 50 mm from each end and 150 mm centres in-between.


Document the penetration. It is general good practice to take photographs and label all completed penetration works to add to the site's documentation for future inspections. AS4072 includes some recommendations and templates for penetration register stickers.
If you need penetration stickers, we offer them at Trafalgar. Click here.

## TABLE 1: FIXINGS FyreBOX Maxi \& Mini

| Wall Type | Fixing |
| :---: | :---: |
| Plasterboard walls, Corex and shaft walls | 8 gx 50 mm plasterboard screws |
| AAC panel (Hebel ${ }^{\oplus}$, Walsc ${ }^{\circledR}$ etc) |  |
| FyreBOARD Maxilite ${ }^{\circledR}$ |  |
| Speedpanel ${ }^{\circledR}$ | 8 gx 50 mm metal drilling head screws |
| Concrete/Masonry and Alpha Panel | M6x50mm masonry anchors |
| Plasterboard Ceilings | 10 gx 100 mm plasterboard screws, and additional framing (refer to page 30-31) |

## INSTALLATION SuperSTOPPER ${ }^{\circledR}$

## CEILINGS



Cut the appropriately sized hole in the ceiling (520 mm annular gap). FyreBOX can be unhinged to fit around existing services.


Install 60 mm thick Maxilite board to the top side of the penetration around the FyreBOX with 100 mm overlaps on all sides. Fix in place with 10 gx 100 mm screws.

Please note: When cutting a hole in any floor for a FyreBOX, allow for a 5 -20mm gap between the box and the edge of the hole.


Seal the gaps with FyreFLEX sealant and install both the upper and lower flanges, fixing in place with 10 gx 100 mm screws.


Cut a slit through the FyreBOX foam plug inserts and notch out holes to suit the services that are installed, then fit the foam in the box around the services on the top side only.

The fit should be snug, fill and gaps with foam offcuts or FyreFLEX ${ }^{\circledR}$ Sealant.

## Q SUPERSTOPPER

FyreBOARD Maxilite ${ }^{\circledR}$ PENETRATIONS

# INSTALLATION PROBLEM SOLVER 



Where it is not possible to treat penetrations directly at the wall/floor penetration, FyreBOX systems are compatible with FyreBOARD Maxilite ${ }^{\circledR}$ bulkhead systems. Refer to FyreBOARD Maxilite ${ }^{\circledR}$ technical manuals for more information. For compliance of Maxilite bulkhead systems please refer to report FCO2586.

Please note: All penetrations using FyreBOARD Maxilite ${ }^{\oplus}$ require at least 60 mm thickness of board.
 here to go back to
Contents

## COMPLIANCE WITH THE NATIONAL CONSTRUCTION CODE (NCC)

Formerly known as BCA
Under the NCC requirements, a multiple service transit system for service penetrations should be fire tested in every configuration that it is intended for use in, both completely empty (blank seal), partially full and completely full of services so that the product many be installed with as many or as little services as required on site. It is important to fire test in all the different walls types and with different configurations, quantities and types of services which is a time consuming (and expensive) exercise.
Trafalgar Fire SuperSTOPPER systems have been fire tested extensively to AS1530.4-2014 and approved in accordance with Section 4 AS4072.1 as required by Schedule 5 of the NCC. This includes over 200 hours of accredited furnace time and 30 plus individual test reports to cover the full range of service and wall configurations that allow us to comfortably stand behind our multiple SYSTEM approvals.
These configurations include but are not limited to:

- Service fill ratio: Empty (blank seal), half full and completely full of services
- Barrier types: Various types of plasterboard, concrete, Blockwork, Hebel ${ }^{\circledR}$, Walsc ${ }^{\circledR}$, Speedpanel ${ }^{\circledR}$, Pronto panel, FyreBOARD Maxilite ${ }^{\circledR}$ board, concrete floors etc
- Services: Bare and insulated metal pipes and cable bundles, AL and Cu core cables, PVC pipes \& conduits, PEX and PEX-AL-PEX pipes, CPVC pipes etc
- Configurations: Blank seal (empty), full of services, double stacked, side by side etc
- Insulation performance: Tested both wrapped and unwrapped with TWRAP to ensure the system works in both configurations
- Penetration sizes: $150 \times 125,350 \times 125,550 \times 125,1100 \times 125$
- FyreBOX Variants: Slab Mount, Slab Mount Bambino, Cast-in, Maxi and SuperSTOPPER (retrofit)

When choosing a multiple service transit penetration system like FyreBOX, it is important to check that all aspects of your system have been fire tested and are fit for purpose.

Compliance will only be achieved when the installation on site mirrors the tested system.

## TEST AND ASSESSMENT REPORTS

The above-mentioned fire testing reports have all been conveniently summarised into BRANZ assessment report FC10266 (available on www.tfire.com.au) which neatly tabulates the approved services in a range of fire barriers, for all FyreBOX and SuperSTOPPER variants and applications, and covers only minor variations to the tested systems, thereby providing trouble free certification according to NCC.
Importantly, every aspect of the assessment report are backed up by the fire test data and the individual fire test reports are available on request for certification purposes.


QIs the SuperSTOPPER ${ }^{\circledR}$ suitable for my refrigeration lines?
A Yes, the SuperSTOPPER ${ }^{\circledR}$ has been tested with both fire resistant (FR) and non-FR insulation and can be filled with as many lines as will reasonably fit in the box.

Q
Can I install a SuperSTOPPER ${ }^{\circledR}$ after the services have been installed?
A Yes, the SuperSTOPPER ${ }^{\circledR}$ has a hinged panel allowing for a retrofit option.

Q
My opening is $300 \times 600 \mathrm{~mm}$. Can I still use a SuperSTOPPER ${ }^{\oplus}$ ?
A Yes, the opening can be sealed off with Trafalgar Fire's fire rated FyreBOARD Maxilite ${ }^{\circledR}$ board, and SuperSTOPPER ${ }^{\circledR}$ can be mounted in the board. Contact Trafalgar Fire for installation details.

My certifier told me I need 2-hour insulation rating on my copper pipe penetrations - does the SuperSTOPPER ${ }^{\circledR}$ achieve this?
A TWRAP (or FyreWrap ${ }^{\circledR}$ ) will need to be wrapped around the FyreBOX to achieve an insulation rating. Contact Trafalgar Fire for installation details and refer to our YouTube channel for installation videos (Trafalgar TV).

Q Do I need to separate my pipes and cables inside the SuperSTOPPER?
A No, the FyreBOX Range has been fire tested completely full and empty (some trade specific separation may be required).How close together can two FyreBOX be?
A 100 mm apart.
Q How far apart other service penetrations need to be from the SuperSTOPPER?
"Superstopper
Click to Watch Installation


## "FyreBOXmaxi

Click to Watch Installation Video


## SOCIAL MEDIA



Updated FyreFLANGE ${ }^{\text {TM }}$ Up to 20mm annular gaps


Enlarged Updated FyreFLANGE ${ }^{\text {m }}$ Up to 40mm annular gaps* *Must follow additional details as outlined in the "Oversized / Scalloped Openings" drawing of this report

Four sided steel
plate with tabs ( $\begin{gathered}\text { Four sided steel } \\ \text { plate with tabs } \\ \text { folded out through }\end{gathered}$ folded out through the centre, forming an L-profile cros


Drawing Name: SuperSTOPPER® Mini Annular Gaps
Project Title: SuperSTOPPER® Mini - Generic Install
Drawing No.
2

Sheet:
2 of 12 Date: 13/07/2020

Codes: Drawn By: Checked By:

0 tr^fAlgar Fantire


## Concrete / Masonry Walls (with or without permanent formwork)



Plasterboard Walls and Shafts - Plasterboard lined on one side


NOTE: If TWRAPTM is to be applied for full insulation, it will only be required in the direction of the fire rating

| Drawing Name: Plasterboard - Lined One Side |  |  |  | Test Standard: AS1530.4 | Codes: | Revision: | Date: | No.: | NOTICE: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Title: SuperSTOPPER® - Generic Install |  |  |  | Fire resistance level: | Drawn By: JC |  |  |  | EEAL |
| Drawing No. : 6 | Sheet: <br> 6 of 12 | Date: 13/07/2020 | Scale: NTS | Based on Report No.: | Checked By: CT | $\begin{aligned} & \square \text { STANDA } \\ & \square \text { PROJEC } \end{aligned}$ |  |  | - |

Click

## Plasterboard Walls and Shafts - Plasterboard lined on one side

Max. 20mm annular gaps, as per the requirements of the selected mounting flange (see
SuperSTOPPER®
Annular Gaps" drawing).
The direction of fire rating will be equal to that of the wall system

NOTE: If TWRAPTM is to be applied for full insulation, it will only be required in the direction of the fire rating

| Drawing Name: Plasterboard - Lined One Side |
| :--- |
| Droject Title: SuperSTOPPER® - Generic Install |

Click


## Speedpanel ${ }^{\circledR}$ Walls

$\qquad$



| Drawing Name: Concrete Slabs |  |  |  | Test Standard: AS 1530.4 | Codes: | Revision: | Date: |  | NOTICE: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Title: SuperSTO PPER® - Generic Install |  |  |  | Fire resistance level: | $\begin{gathered} \text { Drawn By: } \\ \text { Jy: } \end{gathered}$ |  |  |  |  |
| Drawing No. : | Sheet: <br> 9 of 12 | $\begin{aligned} & \text { Date: } \\ & \text { 13/07/2020 } \end{aligned}$ | Scale: | Based on Report No.: | Checked By: CT | $\square \text { STAND }$ |  |  | FIRE |

## FyreBOARD Maxilite ${ }^{\circledR}$




Where the SuperSTO PPER® and/or services do not achieve full insulation, TWRAP®
can be apptilein order to increase this insulation rating up to $-/ X X X / 120$.


## TWRAPTM - Fire Rated Floors

Where the SuperSTOPPER® and/or services do not achieve full insulation, TWRAP® can be applied in order to increase this insulation rating up to -/XXX/120.


## Approved fixings

| FIXING BETWEEN | FIXING SPECIFICATION (MINIMUM) | ALTERNATE |
| :---: | :---: | :---: |
| FyreBOX Slab-Mount and concrete slab | 6mm expanding masonry bolt | 4mm Hilti MX nails 6 mm screw-type masonry anchors |
| FyreFLANGE ${ }^{\text {TM }}$ mounting flange and plasterboard | 40mm laminating screw | $8 \mathrm{~g} \times 50 \mathrm{~mm}$ screws (into studwork) |
| SuperSTOPPER® and FyreBOX mounting flange and Hebel ${ }^{\circledR}$ / Walsc ${ }^{\circledR}$ AAC | $8 \mathrm{~g} \times 50 \mathrm{~mm}$ screws | 14 g hex-head fixings (as per typical Hebe ${ }^{\circledR}$ specification) |
| SuperSTOPPER® and FyreBOX mounting flange and Speedpane ${ }^{-3}$ | $10 \mathrm{~g} \times 25 \mathrm{~mm}$ self-tapping screws | 12-14 x 20mm metal screws |
| SuperSTOPPER® and FyreBOX mounting flange and concrete/masonry | 6 mm expanding masonry bolt | 6mm screw-type masonry anchors |
| SuperSTOPPER® and FyreBOX mounting flange and FyreBOARD Maxilite ${ }^{\circledR}$ | $8 \mathrm{~g} \times 50 \mathrm{~mm}$ screws |  |
| TWRAP ${ }^{\text {TM }}$ and concrete slab (for 3-sided installation) | 6 mm expanding masonry bolt | 4mm Hilti MX nails 6 mm screw-type masonry anchors |

## Notes:

- All fixings used must be all-steel
- Fixings must be compatible with the barriers as outlined in this report, or as-tested

| Drawing Name: Approved fixings |  |  |  | Test Standard: <br> AS1530.4 <br> Fire resistance level: | Codes: <br> Drawn By: <br> JC | Revision: | Date: | No.: | NOTICE: <br> NOTE: ALL DIMENSIONS ARE IN MILLIMEIRES (mm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Title: SuperSTOPPER® \|| Variations |  |  |  |  |  |  |  |  |  |
| Drawing No. : | Sheet: <br> 1 of 9 | Date: 27/05/2020 | Scale: NTS | Based on Report No.: | Checked By: CT | $\square$ STAND $\square$ PROJECT | $\begin{aligned} & \text { ING } \\ & \text { IG } \end{aligned}$ |  | - |

Click

## SuperSTOPPER® Oversized / Scalloped Openings



## All SuperSTOPPER® Variants - Bottom Mounting Flange and Foam End Plug Removed

| Drawing Name: Bottom Foam and Flange Removed |  |  |  | Test Standard: AS 1530.4 | Codes: | Revision: | Date: | No.: | NOTICE: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Title: SuperSTOPPER® |  |  |  | Fire resistance level: | Drawn By: JC |  |  |  | leg |
| Drawing No. 5 | Sheet: <br> 5 of 9 | Date: $27 / 05 / 2020$ | Scale: NTS | Based on Report No.: | Checked By: CT | $\begin{aligned} & \square \text { STAND } \\ & \square \text { PROJEC } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { ING } \\ & \text { IG } \end{aligned}$ |  | CIRE |

## All SuperSTOPPER® Variants - Wrapped Casing

Where the SuperSTOPPER® configuration does not achieve 120 minutes insulation in a given fire barrier, $\mathbb{T R A P ®}$ can be applied to the exposed SuperSTOPPER® casing and mounting flanges in order to increase this insulation rating up to $/ X X X / 120$. This applies to th insulation rating of the SuperSTOPPER® only and the insulation rating of individual services may



| Drawing Name: Wrapped Casing |  |  |  | Test Standard: <br> AS 1530.4 | Codes: | Revision: | Date: | No. | NOTICE: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Title | DerST | Variatio |  | Fire resistance level: | Drawn By: JC |  |  |  |  |
| Drawing No. 6 | Sheet: $6 \text { of } 9$ | Date: 27/05/2020 | Scale: NTS | Based on Report No.: | Checked By: CT | $\square$ STAND $\square$ PROJEC | ING IG |  |  |

## All SuperSTOPPER® ${ }^{-}$-ariants - Chilled Water Pipes

Metal pipes insulated with any material not already approved combustible or not, can be run through the penetration by swapping out a section for any thickness of Rockwool or Nitrite Composite (ie Armaflex) insulation


## FyreBOX Maxi, SuperSTOPPER® \& FvreBOX Cast-In - Insatlled at any angle

FyreBOX variant to be installed, in approved vertical or horizontal fire barrier, as per standard details relevant to the barrier type.


Notes:
Barrier must permit the size and location/orientation of opening
All other installation details as standard


## All SuperSTOPPER ${ }^{\circledR}$ Variants - Centre With FyreBOARD Maxilite ${ }^{\circledR}$

Note - This installation detail takes the FRL's for FyreBOARD Maxilite ${ }^{\text {® }}$ installations

SuperSTOPPER® located centrally to the combined thickness of the FyreBOARD Maxilite and fire barrier




