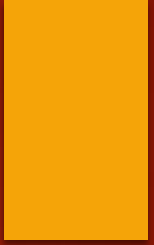


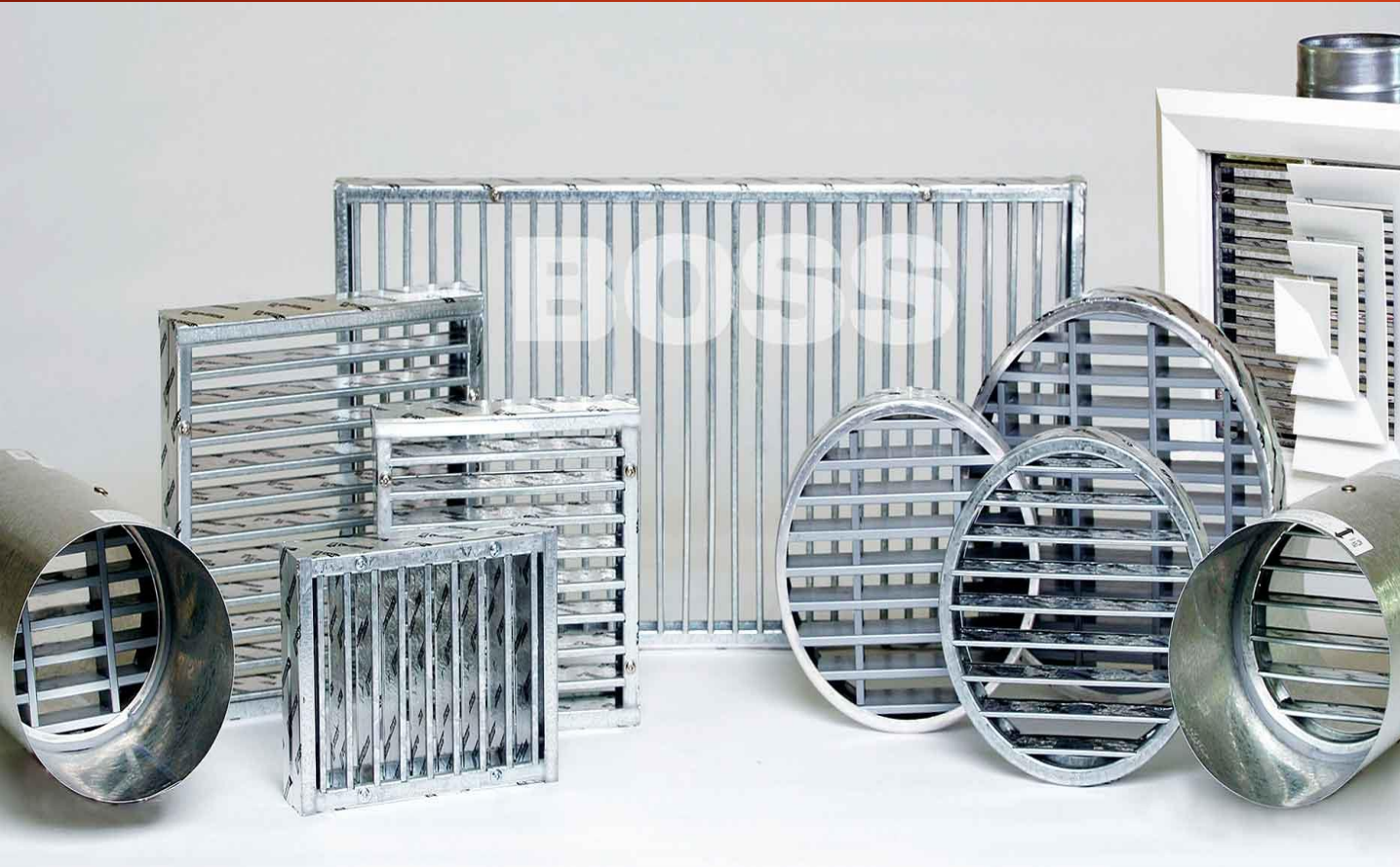
Managing Fire Penetrations & Certification



- 
- Manufacturers tested systems
 - Photographic evidence
 - Registers
 - Stickers
 - Access for further certification and inspection
 - Pitfalls

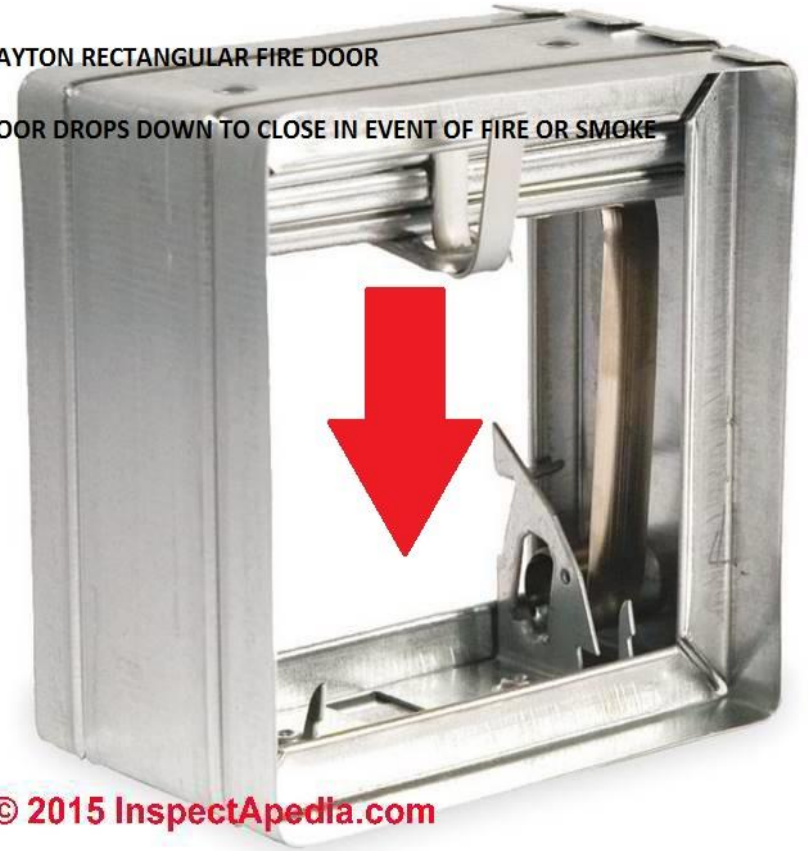
Manufacturers Tested Systems

Duct Work



DAYTON RECTANGULAR FIRE DOOR

DOOR DROPS DOWN TO CLOSE IN EVENT OF FIRE OR SMOKE



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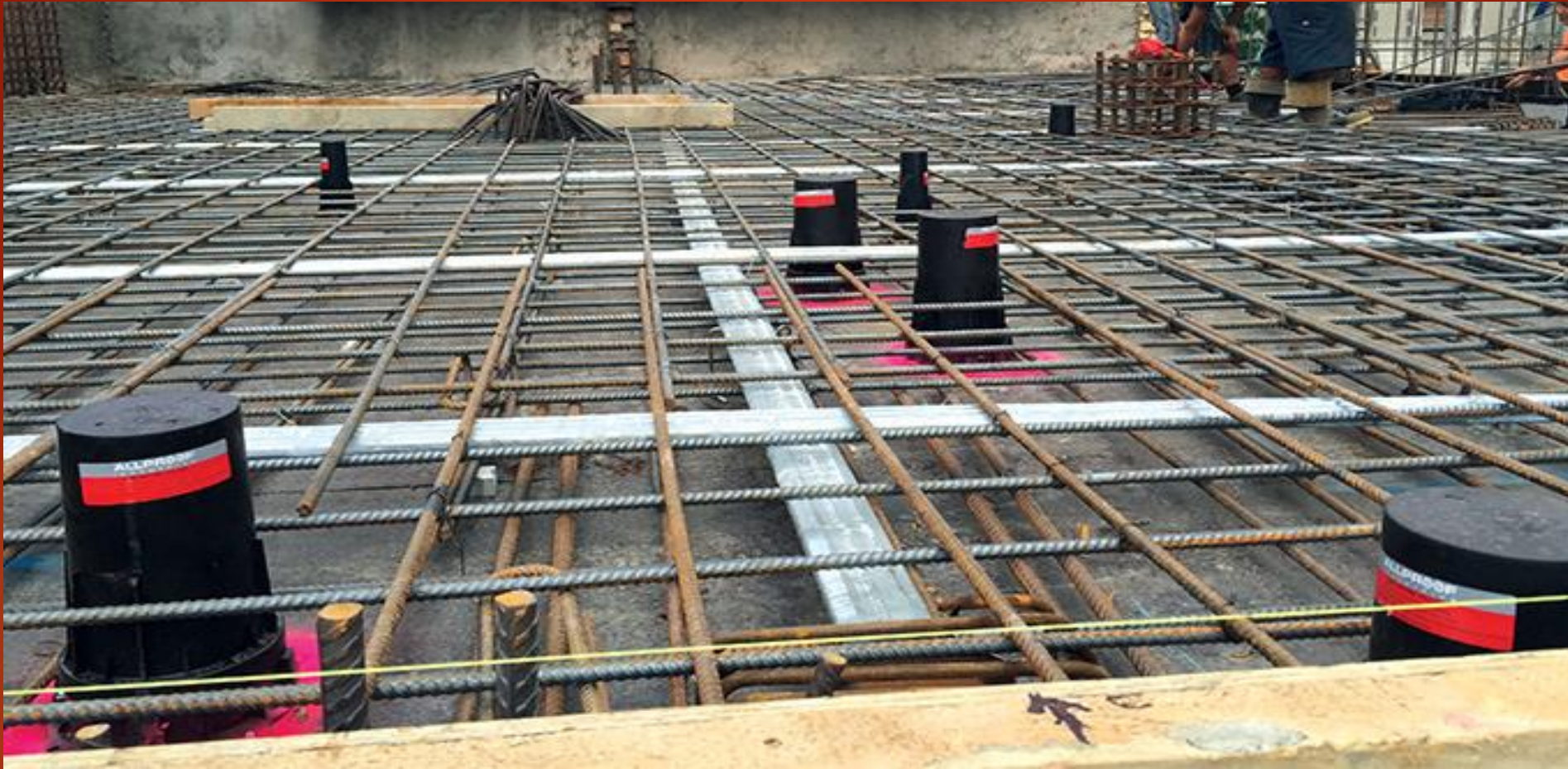
Fire Wrapped Duct work



Manufacturers Tested Systems

Pipe Work





► https://www.youtube.com/watch?v=3_qt-QXMTFUu

Manufacturers Tested Systems

Cables

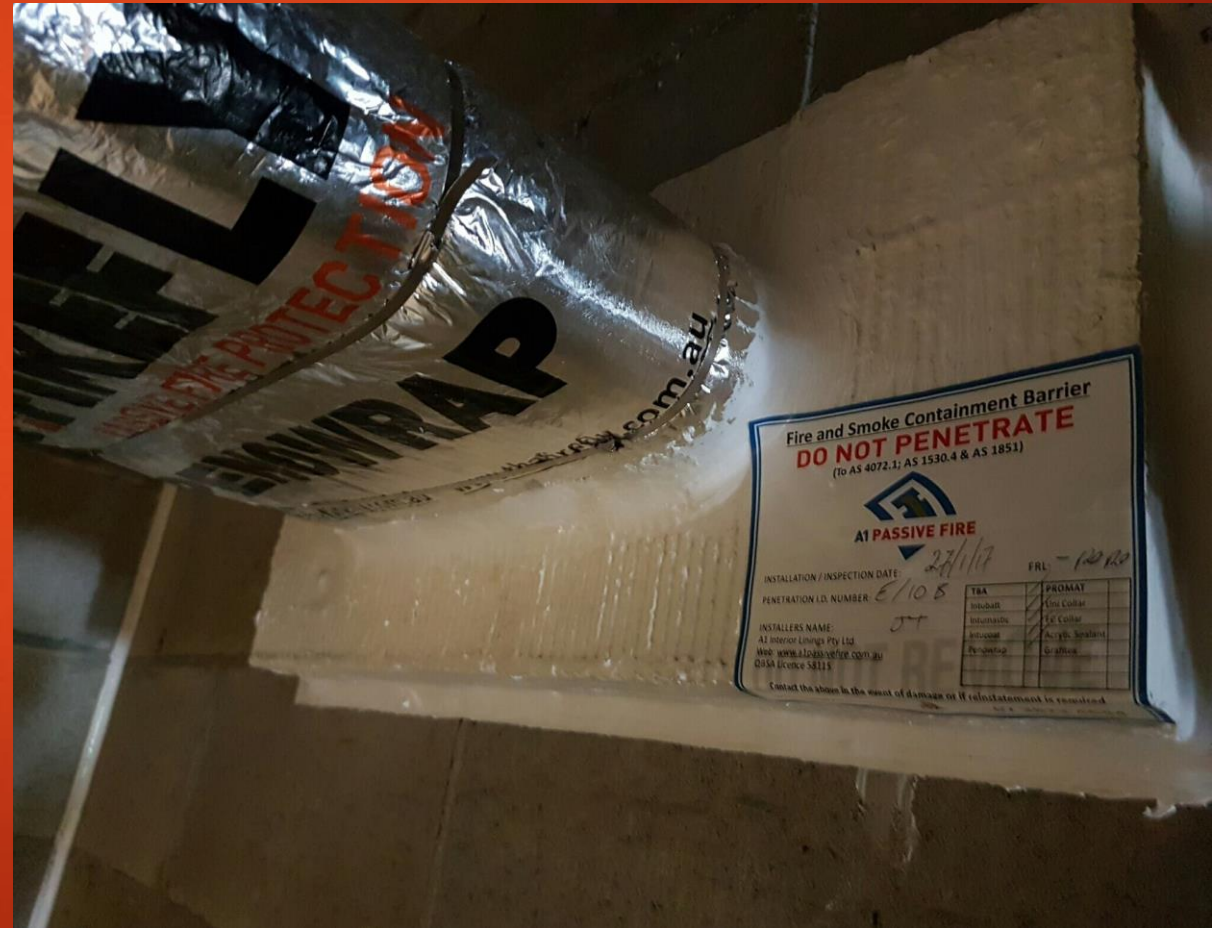
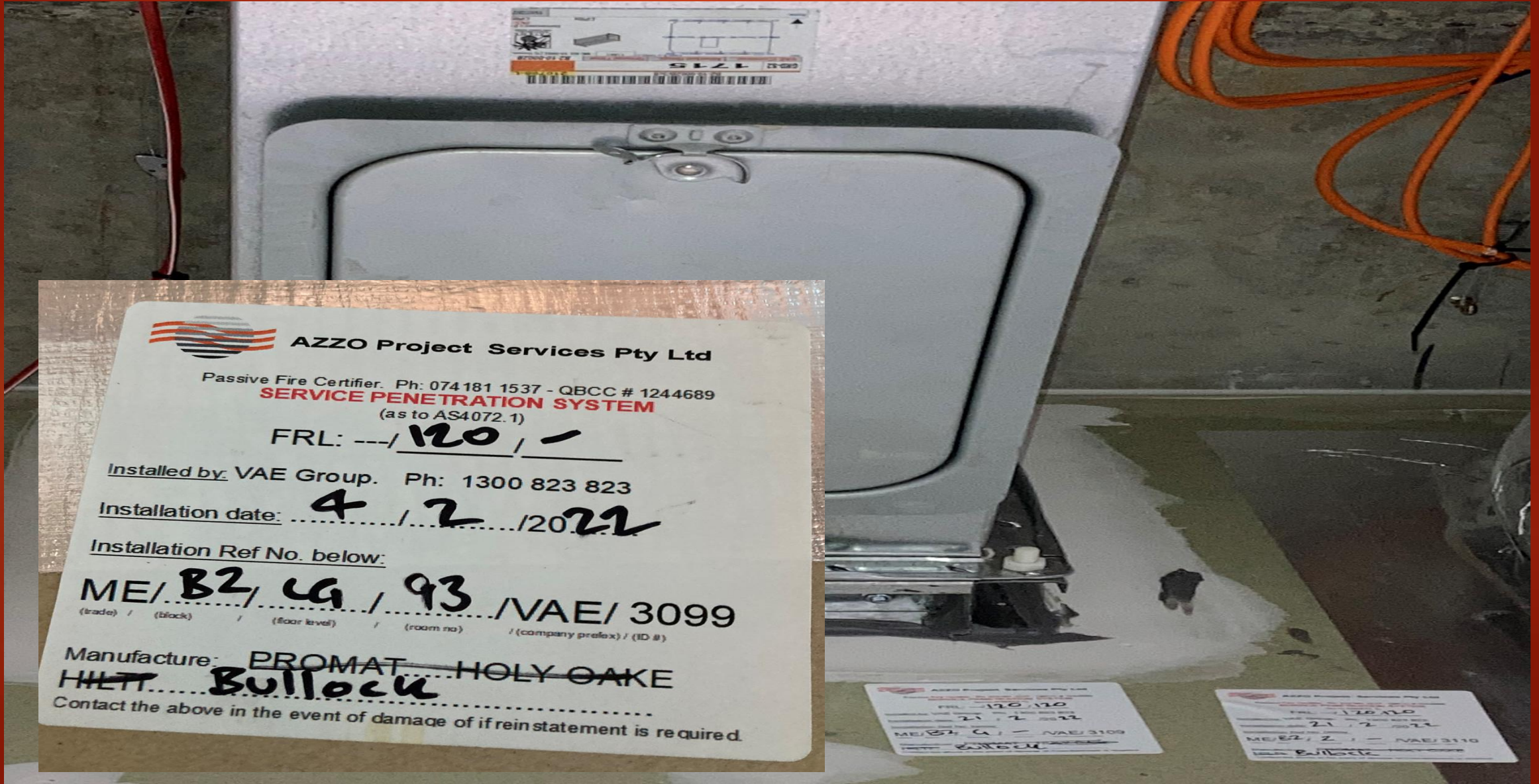


Photo Evidence Site Installation



AZZO Project Services Pty Ltd

Passive Fire Certifier. Ph: 074181 1537 - QBCC # 1244689
SERVICE PENETRATION SYSTEM
(as to AS4072.1)

FRL: ---/ 120 / -

Installed by: VAE Group. Ph: 1300 823 823

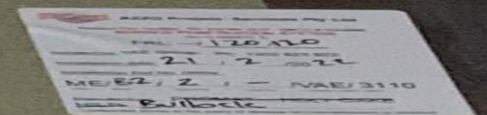
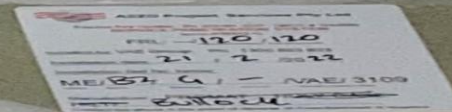
Installation date: 4 / 2 / 2022

Installation Ref No. below:

ME/ B2 / LG / 93 / VAE/ 3099
(trade) / (block) / (floor level) / (room no) / (company prefix) / (ID #)

Manufacture: PROMAT Bullock ~~HOLY OAKE~~
~~HITT~~

Contact the above in the event of damage of if rein statement is required.



Penetration Photos



07.jpg



08.jpg



09.jpg



10.jpg



11.jpg



12.jpg



13.jpg



14.jpg



15.jpg



16.jpg



17.jpg



18.jpg



19.jpg



20.jpg



21.jpg

Penetration Schedules



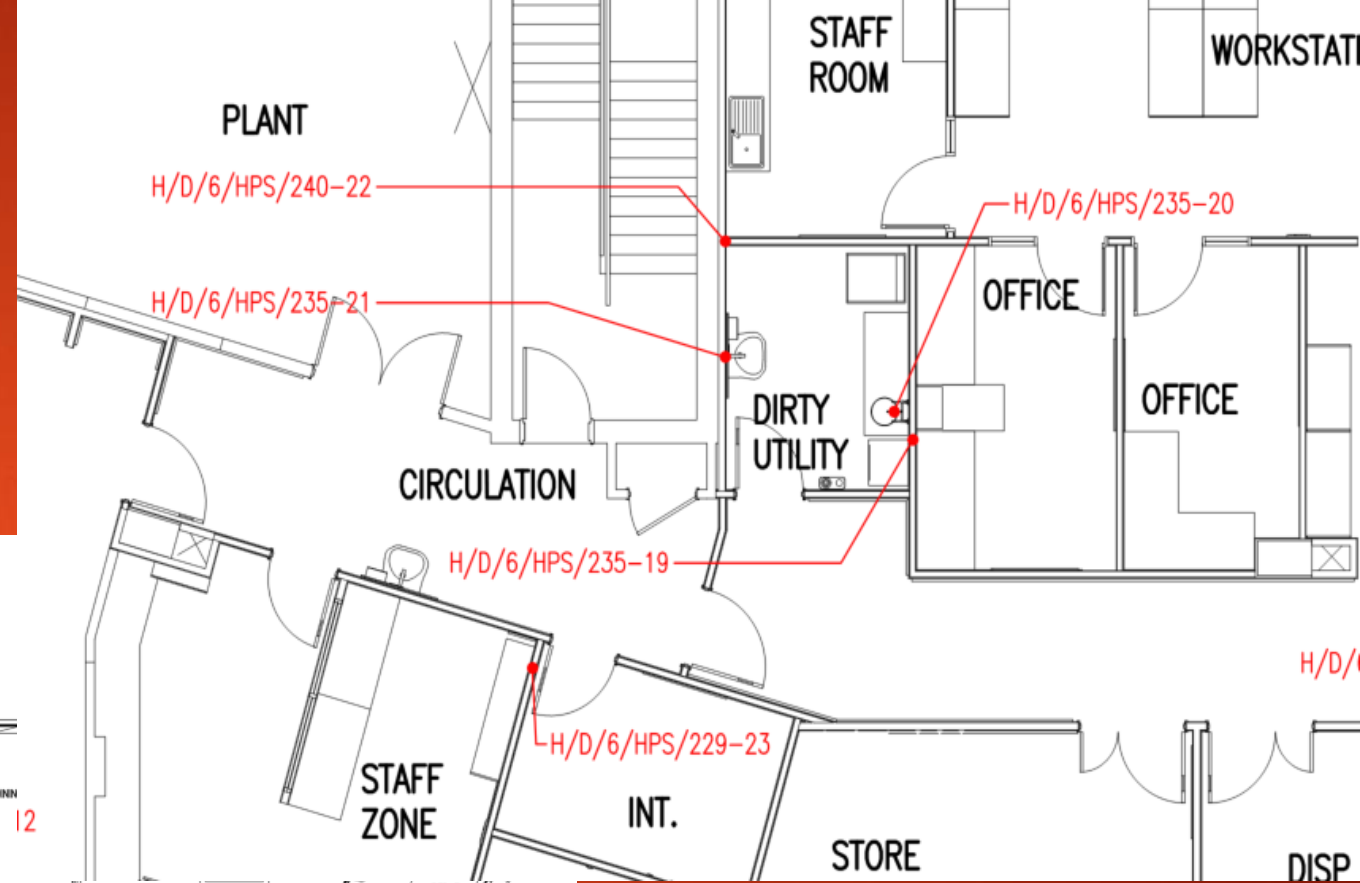
PROJECT DETAILS: Cairns Base Hospital Mental Health Fit Out
CLIENT: HPS
DATE CERTIFIED: 22 OCTOBER 2019
PROJECT NO: 1974

CERTIFIED BY: SHANE BARNES

Passive Fire and Smoke Penetration and Barrier Register

Installation Reference	Description of Penetration or Barrier	Drawing No/Location	Penetration location: Floor = F Wall = W Ceiling = C	Fire Resistance Level of Barrier	Fire Resistance Level of installed item	Type of protection, smoke or fire	Type of Substrate, Concrete or Masonry or Plasterboard, etc	Thickness of Substrate in mm	Manufactured product
H/D/6/HPS/245(Photo-01)	50mm PVC (Sink)	HS/305 (Room D06.245)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/245(Photo-02)	50mm PVC (Vent)	HS/305 (Room D06.245)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/245(Photo-03)	50mm PVC (Basin)	HS/305 (Room D06.245)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/259(Photo-04)	50mm PVC (Vent)	HS/305 (Room D06.259)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/259(Photo-05)	50mm PVC (Basin)	HS/305 (Room D06.259)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/259(Photo-06)	100mm PVC (WC)	HS/305 (Room D06.259)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/259(Photo-07)	100mm PVC (Shower)	HS/305 (Room D06.259)	F	-/120/120	250mm	Fire	Concrete	250	Snap (LF
H/D/6/HPS/233(Photo-08)	50mm PVC (Vent)	HS/305 (Room D06.233)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/233(Photo-09)	100mm PVC (Floor Waste)	HS/305 (Room D06.233)	F	-/120/120	250mm	Fire	Concrete	250	Snap (LF
H/D/6/HPS/233(Photo-10)	50mm Raupiano (Trough)	HS/305 (Room D06.233)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/221(Photo-11)	50mm Raupiano (Sink)	HS/305 (Room D06.221)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/221(Photo-12)	50mm Raupiano (Trapped Tundish)	HS/305 (Room D06.221)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/252(Photo-13)	50mm Raupiano (Basin)	HS/305 (Room D06.252)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/252(Photo-14)	100mm PVC (Shower)	HS/305 (Room D06.252)	F	-/120/120	250mm	Fire	Concrete	250	Snap (LF
H/D/6/HPS/252(Photo-15)	100mm PVC (WC)	HS/305 (Room D06.252)	F	-/240/240	250mm	Fire	Concrete	250	Snap (LF
H/D/6/HPS/013(Photo-16)	50mm Raupiano (Laundry Tub)	HS/305 (Room D06.013)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/013(Photo-17)	100mm PVC (Floor Waste)	HS/305 (Room D06.013)	F	-/120/120	250mm	Fire	Concrete	250	Snap (LF
H/D/6/HPS/209(Photo-18)	50mm Raupiano (Basin)	HS/305 (Room D06.209)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/235(Photo-19)	50mm Raupiano (Washing machine)	HS/305 (Room D06.235)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/235(Photo-20)	100mm PVC (Sluice Sink)	HS/305 (Room D06.235)	F	-/120/120	250mm	Fire	Concrete	250	Snap (LF
H/D/6/HPS/235(Photo-21)	50mm Raupiano (Basin)	HS/305 (Room D06.235)	F	-/120/120	250mm	Fire	Concrete	250	Promat U
H/D/6/HPS/240(Photo-22)	50mm Raupiano (Sink)	HS/305 (Room D06.240)	F	-/120/120	250mm	Fire	Concrete	250	Promat U
H/D/6/HPS/229(Photo-23)	50mm Raupiano (Basin)	HS/305 (Room D06.229)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/218(Photo-24)	50mm Raupiano (Basin)	HS/305 (Room D06.218)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/210(Photo-25)	50mm Raupiano (Tundish)	HS/305 (Room D06.210)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/220(Photo-26)	50mm Raupiano (Tub)	HS/305 (Room D06.220)	F	-/120/120	250mm	Fire	Concrete	250	Promat
H/D/6/HPS/220(Photo-27)	100mm PVC (Floor Waste)	HS/305 (Room D06.220)	F	-/120/120	250mm	Fire	Concrete	250	Snap LF
H/D/6/HPS/215(Photo-28)	100mm PVC (Shower)	HS/305 (Room D06.215)	F	-/120/120	250mm	Fire	Concrete	250	Snap LF

Fire Penetration Shop Drawings



Building Testing and inspections

Passive fire inspection

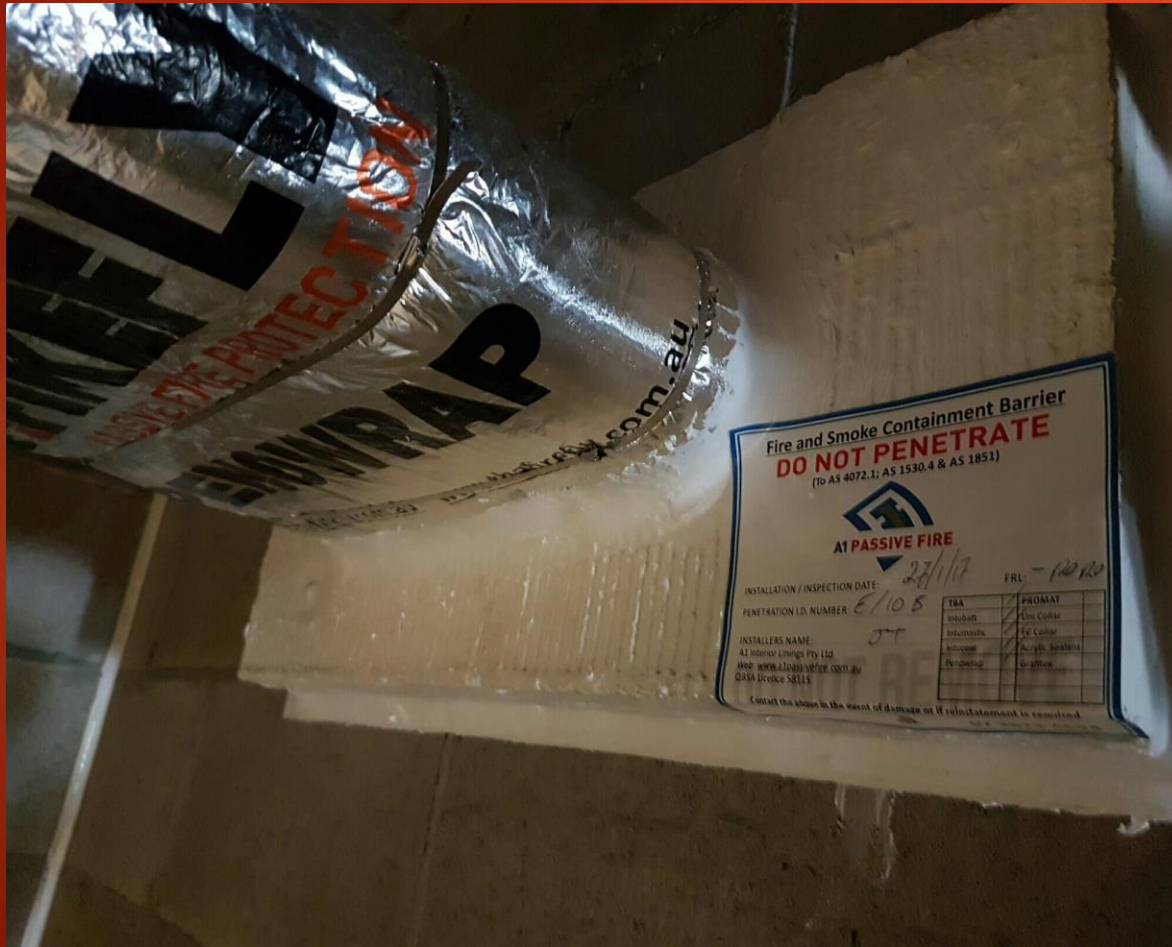
- ▶ To be completed as required by building owner

Mechanical fire protection

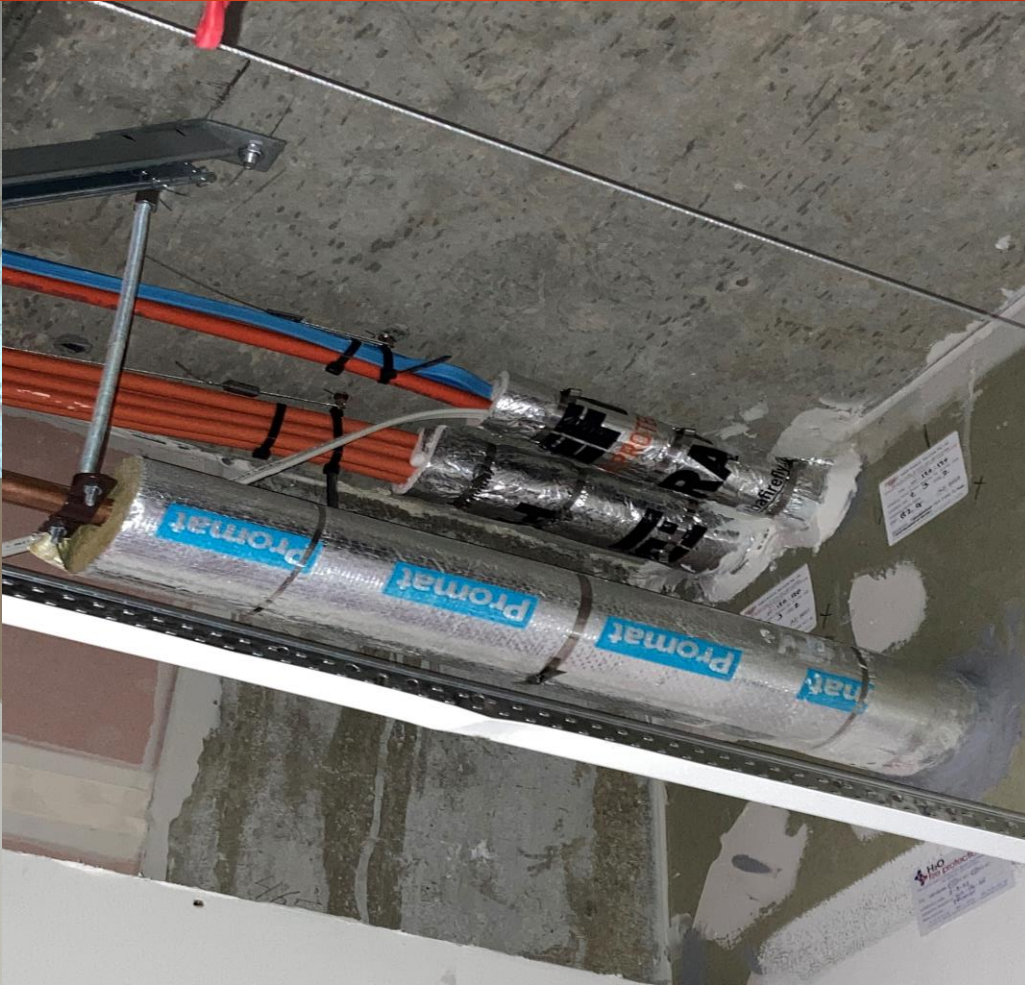
- ▶ Fire damper drop testing to be completed to all mechanical dampers across building
- ▶ Dampers to be completed in a 5-year period
- ▶ As part of annual building fire certification **20% of all fire dampers are required to be checked and recorded**. The principle is that the next year another 20% of dampers will be checked so that after 5 years of inspection all dampers have been inspected.

Certification Stickers to be signed off by certified person.

Training is required to install fire rating systems



Atherton Hospital installations

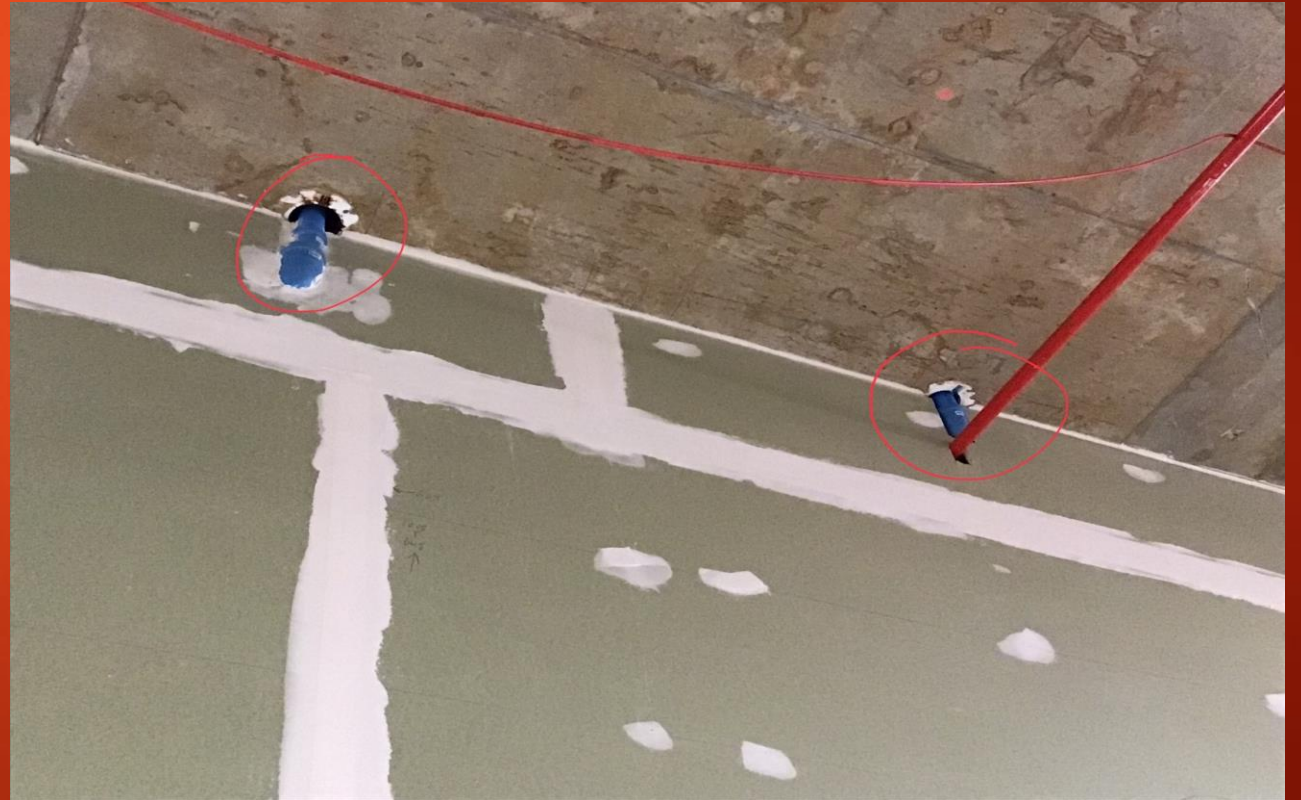
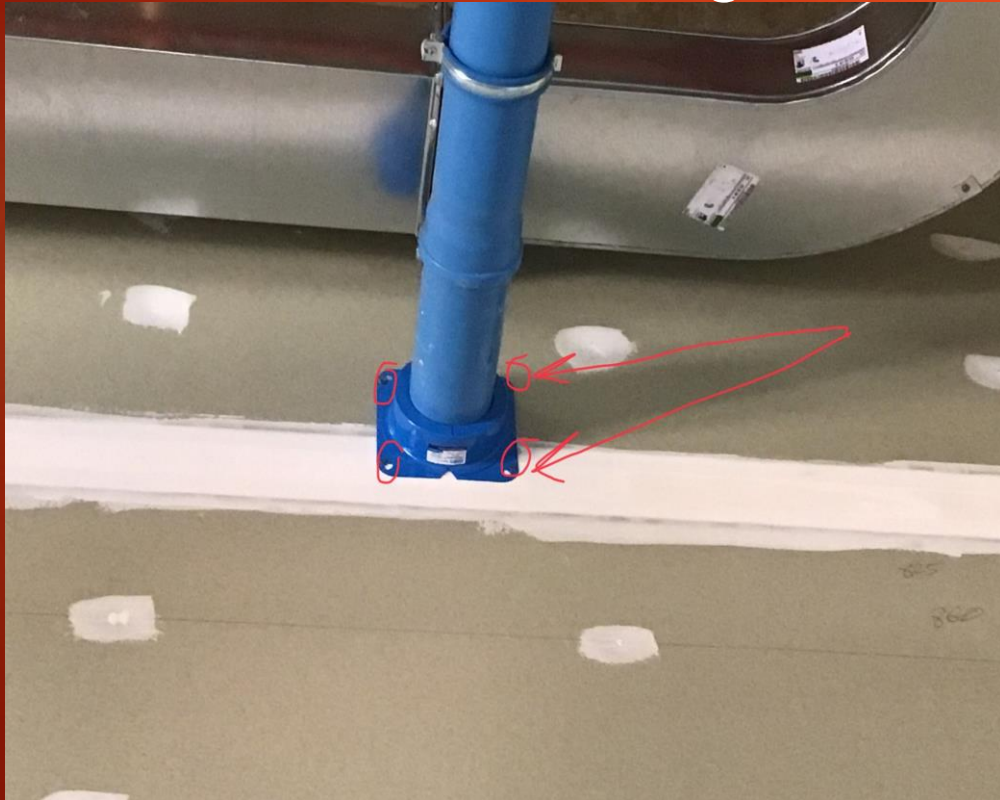


Issues to look out for Blockwork Penetrations



Pipe penetrations issues

- Incorrect fixing used to secure collar
- Fire collar can't be restricted for activation
- Pipe needs to be correct size for collar
- Pipe material to correct for collar
- Pipe spacing to be as installation systems
- Must follow the design details



Questions