



Atelier MB
Urban Architects



Science and Industry Museum Manchester

Project Ref: 2002

Compartmentation Methodologies

New Warehouse
Proposed Basement

Date: March 2023
Issue –

To be read in conjunction with:
Neo Fire Compartmentation Survey Report

Proposed Basement

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Building	New Warehouse, Proposed Basement
Methodology Ref:	COMP_MET_001
Instances	14
Locations	Plantroom, Corridor
Breach Type	Trunking
Rating	60 Minutes
Substrate	Concrete / Brick / Block
Description	2 layers ROCKWOOL FIREPRO® Ablative batt, 50mm thick with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter, both sides and around services penetrations, both sides. ROCKWOOL RWA45, 300 long strips tightly packed in trunking placed central to fire batts
NBS references	P12/360 P12/385 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail RWSD-ACB-0104
Notes	



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_002
Instances	23
Locations	See Neo PINs
Breach Type	Fire Stopping at joints with beams, heads of walls, ducts
Rating	30 Minutes and 60 minutes
Substrate	Concrete / Brick / Block and Drywall
Description	Rockwool Firepro Acoustic Intumescent sealant with RWA-45 backing where packing is required
NBS references	P12/386 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail RWSD-AIS-0001
Notes	Install seals both sides of walls.



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_006
Instances	1
Locations	Plantroom Ceiling
Breach Type	Plastic pipe.
Rating	30 Minutes
Substrate	Ceiling
Description	ROCKWOOL FIREPRO® Pipe Collar CE to underside screw fixed to substrate. ROCKWOOL fire stop compounds to gaps greater than 10mm or ROCKWOOL FIREPRO® Acoustic Intumescent Sealant around pipes
NBS references	P12/340 P12/377 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail RWSD-COL-0501
Notes	Remove existing collar



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_012
Instances	4
Locations	Plantroom
Breach Type	Firestopping around ducts, pipes and holes
Rating	60 Minutes
Substrate	Concrete / Brick / Block and Drywall
Description	ROCKWOOL FIREPRO® Ablative batt, 50mm thick with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter, both sides and around services penetrations, both sides
NBS references	P12/360 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-112-RDW
Notes	Install seal both sides of wall.



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_014
Instances	1
Locations	Plantroom
Breach Type	Fire Stopping around cable tray
Rating	60 and 120 Minutes
Substrate	Drywall
Description	ROCKWOOL Ablative coated batt, 50mm thick, face fixed with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter and around services penetrations, both sides
NBS references	P12/145 P12/360 P12/375 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-113-RDW
Notes	Install both sides of wall.



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_020
Instances	7
Locations	Plantroom ceiling.
Breach Type	Horizontal firestopping at holes with multiple services and pipes.
Rating	30 and 60 Minutes
Substrate	Concrete / Brick / Block
Description	2 layers ROCKWOOL FIREPRO® Ablative batt, 50mm thick with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter, both sides and around services penetrations, both sides. 500mm ROCKWOOL fire tube each side of insulated non combustible pipes.
NBS references	P12/360 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-123-RDW
Notes	Cut back redundant pipes. Remove timber and polystyrene.



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_019
Instances	17
Locations	Basement Corridor
Breach Type	Fire stopping at multiple Services, Ducts, Insulated metal pipes, Trunking, Cable Trays, Cables, Conduits and Dampers
Rating	60 Minutes
Substrate	Concrete / Brick / Block
Description	2 layers ROCKWOOL Ablative coated batt, 50mm thick, with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter, both sides. ROCKWOOL 40mm fire tube or Rocklap H&V pipe section installed 500mm each side of fire batts for insulated non-combustible pipes. ROCKWOOL insulated Fire Sleeve with 25mm projection each side of fire batt for plastic pipes.
NBS references	P12/360 P12/376 P12/378 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-122-RDW
Notes	



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_022
Instances	1
Locations	Plantroom
Breach Type	Fire stopping at head of wall
Rating	60 and 120 Minutes
Substrate	Concrete / Brick / Block
Description	1 layer ROCKWOOL Ablative coated batt, 50mm thick, with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter, both sides. Install vertically.
NBS references	P12/360 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-126-RDW
Notes	To access this head of wall the installer would have to crawl on the ducting.



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_023
Instances	88
Locations	Various throughout. See Neo PINs
Breach Type	Seals around cables, cable trays, conduit, pipes, trunking and holes
Rating	60 Minutes
Substrate	Concrete / Brick / Block
Description	ROCKWOOL FIREPRO® Acoustic Intumescent Sealant around services penetrations with Rockwool RWA insulation or PE rod backing, both sides
NBS references	P12/385 P12/386 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-128-RDW
Notes	



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_035
Instances	16
Locations	Basement corridor and Plantroom
Breach Type	Firestopping at holes in blockwork, cable trays. pipes
Rating	60 Minutes
Substrate	Concrete / Brick / Block
Description	2 layers ROCKWOOL Ablative coated batt, 50mm thick, with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter. ROCKWOOL FIREPRO® Acoustic Intumescent Sealant around services penetrations, both sides on one thickness of batt.
NBS references	P12/360 P12/376 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-145-RDW
Notes	Replace existing fire stopping installations. Wrap pipes. See Neo comments for each instance.



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_040
Instances	5
Locations	Basement
Breach Type	Firestopping seals around cable trays and insulated metal pipes.
Rating	60 Minutes
Substrate	Drywall
Description	ROCKWOOL Ablative coated batt, 50mm thick face fixed both sides of partition. 2No. Pipe wrap rolls as per Rockwool guide, ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter of batts and penetrations, both sides.
NBS references	P12/360 P12/372 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-190-RDW
Notes	See Neo comments for each location.



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_041
Instances	7
Locations	Plantroom
Breach Type	Firestopping seals around Insulated pipes in voids
Rating	60 Minutes
Substrate	Concrete / Brick / Block
Description	ROCKWOOL Ablative coated batt, 2 layers 50mm thick within wall thickness. Pipe wrap rolls, number of layers as per Rockwool guide. ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter of batts and penetrations, both sides
NBS references	P12/360 P12/372 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-191-RDW.
Notes	Insulated pipes



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_048
Instances	1
Locations	Plantroom
Breach Type	Firestopping seals around plastic pipes.
Rating	60 Minutes
Substrate	Drywall
Description	ROCKWOOL Ablative coated batt fill to aperture, 50mm thick face, 1 layer, with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter, one side. ROCKWOOL Ablative coated batt fill pattress, 50mm thick secured to one side of batt with 75mm long pig tail/spiral screw fixings. Min. 100mm larger than pipe diameter all round and sealed at perimeter with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant High Expansion sealant around pipe, 25mm annular, to full depth of batts.
NBS references	P12/360 P12/372 P12/390 P12/395
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-179-RDW
Notes	



Building	New Warehouse , Proposed Basement
Methodology Ref:	COMP_MET_049
Instances	1
Locations	Plantroom
Breach Type	Firestopping seals around cables.
Rating	60 Minutes
Substrate	Drywall
Description	Hilti flexible firestop foam fire and smoke seal around cables in wall penetration.
NBS references	P12/336
AtelierMB Drawings	
Other information referenced	Hilti CFS-F FX
Notes	



Building	New Warehouse - Basement
Methodology Ref:	COMP_MET_552
Instances	2
Locations	Neo PIN 0007:38, 0009:38
Breach Type	No fire damper
Rating	60 Minutes
Substrate	Brick
Description	Carefully remove chipboard pattress. Scope of repair work to masonry TBC – allow for reinstating masonry to extent of pattress. Take mortar samples for analysis to determine matching mix for reinstatement. Agree matching mortar mix via samples to be agreed with the CA. Provide matching brick sample for sign off by CA and CO. Install matching replacement bricks (handmade). Bed and point with lime mortar Install fire rated duct dampers and fire stopping to perimeter of ducts: ROCKWOOL FIREPRO® Ablative batt, 50mm thick with ROCKWOOL FIREPRO® Acoustic Intumescent Sealant to perimeter, both sides and around services penetrations, both sides
NBS references	Repairs Specification Sections C40, C41 and Z21 P12/360 P12/375 P12/390
AtelierMB Drawings	
Other information referenced	Rockwool standard firestopping detail SD-122-RDW
Notes	Ducts require 60 minute fire dampers



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