



VULCAN (SR2) & ECLIPSE (SR3)

Summary of Substrates & Recommended Fixings – PMD 900 Rev 3

REVEAL FIXING						
SUBSTRATE	COVERING	FIXING	PLUG	PACKING	COMMENT	
Solid timber, structural grade softwood. Minimum 65x50mm.	None – Direct fixing.	DIN912 / DIN7380 / DIN7991 – M8 ZP Machine screw Refer drawing for length	Fischer M8-S	Aluminium horseshoe 50x50mm max average 3mm thick per side.	Packers siliconed in place.	
	Solid board – Fixed through.					
	Plasterboard or other lightweight boarding.	Board removed along the fixing plane and replaced with timber / plywood laminate. Then as above.				
Structural Steel / Aluminium minimum 3mm thick.	None – Direct Fixed or with sub frame.	M8 bolts - Type to suit location, with washers & Nyloc nuts.				
Concrete, Brickwork, Blockwork. Drylining over Concrete, Brickwork, Blockwork.	None – Direct fixing.	DIN912 / DIN7380 / DIN7991 – M8 ZP Machine screw Refer drawing for length	Fischer M8-S	Aluminium horseshoe 50x50mm max average 3mm thick per side.	Packers siliconed in place.	
	Sound solid render / plaster	As above but embedded length excludes render / plaster.				
	Loose or degraded render.	Render removed along the fixing plane and replaced with timber / plywood laminate. Then as fixing to concrete, brickwork, blockwork but with fixing length increased to suit.				
	Dry lined n/e 50mm thick overall.	Dry lining removed along the fixing plane and replaced with timber / plywood laminate. Then as fixing to concrete, brickwork, blockwork but with fixing length increased to suit.				
	Dry lined 50mm+ thick overall.	Dry lining removed along the fixing plane and replaced with continuous timber blocking. Then as for fixing to solid timber.				
Recessed into solid floor.	See relevant drawing for all details.					

Combinations of fixing conditions can be used provided the required minimum number of fixings are maintained.

Drawing no.	Rev	Description
GA SR2 / 051	2	VULCAN Fixing Locations
GA SR3 / 051	2	ECLIPSE Fixing Locations
PMD 903	0	Reveal Fixed to Steel / Aluminium Sections
PMD 905	1	Reveal Fixed Jambs & Rails to Solid Walls
PMD 906	1	Fixing to Hardened Lintels
PMD 907	1	Reveal Fixed Jambs to Dry Lined Walls
PMD 908	1	Reveal Fixed Rails to Dry Lined Walls
PMD 925	1	Recessed Eclipse Threshold
PMD 927	0	Recessed Vulcan Threshold

Checked by Initials:	Development.	Prototype.	Production.	<input checked="" type="checkbox"/>	General Tolerances: n/a	
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Summary of Substrates & Recommended Fixings – PMD 900 Rev 3 cont.

FACE FIXING - Incorporates Subframe Profile – PMD021. Fixings are for subframe to structure. See relevant drawing for connection between Subframe and grille frame.					
SUBSTRATE	COVERING	FIXING	PLUG	PACKING	COMMENT
Solid timber, structural grade softwood. Minimum 65x50mm.	None – Direct fixing.	DIN912 – M8 ZP Machine screw Refer drawing for length	Fischer M8-S	Aluminium horseshoe 50x50mm max average 3mm thick per side.	Packers siliconed in place.
	Solid board – Fixed through.				
	Plasterboard or other lightweight boarding.	Board removed along the fixing plane and replaced with timber / plywood laminate. Then as above.			
Concrete, Brickwork, Blockwork.	None – Direct fixing.	DIN912 – M8 ZP Machine screw Refer drawing for length	Fischer M8-S	Aluminium horseshoe 50x50mm max average 3mm thick per side.	Packers siliconed in place.
	Sound solid render / plaster				
	Loose or degraded render.	Render removed along the fixing plane and replaced with timber / plywood laminate. Then as fixing to concrete, brickwork, blockwork but with fixing length increased to suit.			
Drylining over Concrete, Brickwork, Blockwork.	Dry lined n/e 50mm thick overall.	Dry lining removed along the fixing plane and replaced with timber / plywood laminate. Then as fixing to concrete, brickwork, blockwork but with fixing length increased to suit.			
	Dry lined 50mm+ thick overall.	Dry lining removed along the fixing plane and replaced with continuous timber blocking. Then as for fixing to solid timber.			

Combinations of fixing conditions can be used provided the required minimum number of fixings are maintained.

Drawing no.	Rev	Description
GA SR2 / 051	2	VULCAN Fixing Locations
GA SR3 / 051	2	ECLIPSE Fixing Locations
PMD 904	0	Face Fixed to Steel / Aluminium Sections
PMD 909	2	Face Fixed Jamb & Rails to Solid Walls
PMD 910	2	Face Fixed Jamb to Dry Lined Walls
PMD 911	3	Face Fixed Rails to Dry Lined Walls

Checked by Initials:	Development.	Prototype.	Production.	X	General Tolerances: n/a
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Summary of Substrates & Recommended Fixings – PMD 900 Rev 3 cont.

CAGES -	Free standing or attached to solid walls. Roofed or between structural floor slabs / decks.
SUBSTRATE	FIXING DETAIL
Walls	All as grille reveal fixing details but fixed through Cage corner profile PMD 040. See Drawing PMD 952 rev 1.
Solid Floors Surface Mounted	All as grille reveal fixing details. See Drawing PMD 950 rev 3.
Solid Floors Recessed	See Drawing PMD 925 rev 1 – Eclipse See Drawing PMD 927 rev 0 – Vulcan
Raised Access Flooring.	Fixing continuity must extend to the solid structure below the raised floor. The 'Void' is to be treated as for Cage walls with connections to the Cage walls above sandwiching the raised floor panel. See Drawing PMD 951 rev 1.

Combinations of fixing conditions can be used provided the required minimum number of fixings are maintained.

Drawing no.	Rev	Description
GA SR2 / 051	2	VULCAN Fixing Locations
GA SR3 / 051	2	ECLIPSE Fixing Locations
PMD 950	3	Cage Floor Fixing to Solid Floors
PMD 951	1	Cage Floor Fixing to Raised Access Floors
PMD 952	1	Cage Fixing to Walls
PMD 925	1	Recessed Eclipse Threshold
PMD 927	0	Recessed Vulcan Threshold

'TEK' SCREWS for any fixing condition is not covered by the scope of the relevant LPCB Certification.

CHANGE HISTORY: Rev 0. New Issue Rev 1. Detail expanded & related documents added after discussions with LPCB Rev 2. Document references PMD 906 & 907 added for third party information Rev 3. All fixing details revised				Rev 4. Rev 5. Rev 6. Rev 7.	
Checked by Initials:	Development.	Prototype.	Production.	<input checked="" type="checkbox"/>	General Tolerances: n/a
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