



#3 Phillips



Applications

- Steel framing systems
- Bracketry to steel
- Wind posts

Installation Guidelines

- RG Roofgrip fasteners must penetrate steel deck a minimum of 19mm, timber plank a minimum of 25mm and 12mm through plywood panels.

- Using a screw gun*, drive the fastener until a slight depression is seen around the plate, or with very rigid insulation boards, watch for the plate to dimple.

- Note: Care must be taken not to overdrive the fastener and fracture the skin of the insulation. Fastener must be tight enough so that the plate does not turn.

* For best installation result, use a variable speed 0-2500 RPM screw gun.

FM approved stress plate for use with Roofgrip range



DESCRIPTION	Eurocode
50mm Round Galvalume Metal	921198

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→ For fixing insulation and single ply membrane to steel, timber and concrete

Technical Data for #3 Phillips Head

SCREW TYPE	Total Length	Diameter	Steel Thickness	steel*	Max future thickness when fixed into			Eurocode
					plywood**	50mm timber plank**	concrete***	
HRG 38	38mm	6.3mm	0.4mm-1.2mm	19mm	19mm	19mm	13mm	921177
HRG 51	51mm	6.3mm	0.4mm-1.2mm	32mm	32mm	32mm	26mm	921178
HRG 76	76mm	6.3mm	0.4mm-1.2mm	57mm	57mm	57mm	51mm	921179
HRG 100	100mm	6.3mm	0.4mm-1.2mm	81mm	81mm	81mm	75mm	921168
HRG 127	127mm	6.3mm	0.4mm-1.2mm	108mm	108mm	108mm	102mm	921169
HRG 152	152mm	6.3mm	0.4mm-1.2mm	133mm	133mm	133mm	127mm	921170
HRG 176	176mm	6.3mm	0.4mm-1.2mm	157mm	157mm	157mm	151mm	921171
HRG 200	200mm	6.3mm	0.4mm-1.2mm	181mm	181mm	181mm	175mm	921172

*HRG Roofgrip fastener must penetrate steel deck by a minimum of 19mm.

**HRG Roofgrip fastener must penetrate plywood and timber plank by a minimum of 19mm.

***HRG Roofgrip into concrete requires a predrilled 5mm pilot hole to be used at least 12mm deeper than the fastener embedment. The fastener must penetrate concrete by a minimum of 25mm

Performance Data

Recommended Pullout Values - Steel*

Steel Thickness					
0.4mm	0.5mm	0.6mm	0.7	0.9	1.2
0.39kN	0.44kN	0.53kN	0.71kN	0.79kN	0.86kN

* Pullout values for steel may be subject to variation due to deck tolerances and tensile strength of steel

Recommended Pullout Values - Timber**

Timber Type				
11mm OSB	12mm Plywood	15mm Plywood	18mm Plywood	50mm Plank
0.51kN	0.60kN	0.74kN	0.87kN	1.2kN

** Pullout values for timber may be subject to variation due to differences in species of wood and plywood grade

Recommended Pullout Values - C20/25 Concrete***

25mm Embedment
1.1kN

*** Pullout values for concrete may be subject to variation due to differences in aggregate size, type, age and condition of concrete

Shear Values

Ultimate	Recommended
3.67	1.2kN

Typical Performance Parameters

Coating and corrosion resistance - CR-10

- CR-10 coating protects against rust and exceeds the rigorous ASTM B-117 5% salt spray corrosion and DIN 50018 acid rain tests by offering protection over 120 hours salt spray and 30 cycles Kesternich.