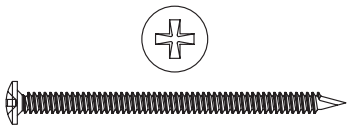
HRG Roofgrip
Heavy Duty Self Drilling Fasteners

#3 Phillips



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

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

FM APPROVED

DESCRIPTION	Eurocode
50mm Round Galvalume Metal	921198

Technical Data for #3 Phillips Head

SCREW TYPE	Total Length	Diameter	Steel Thickness	Max future thickness when fixed into steel*	plywood**	50mm timber plank**	concrete***	Eurocode
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.