

Weldplates

APPLICATIONS

A 10mm steel welding plate with Reid™ Swiftlift™ anchor attached to connect concrete panel to steel building work.

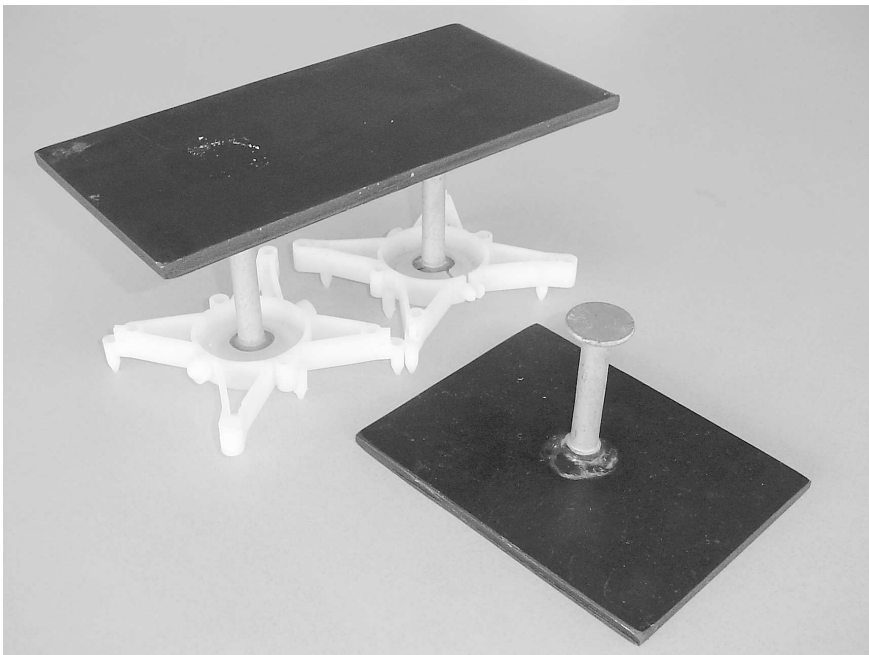
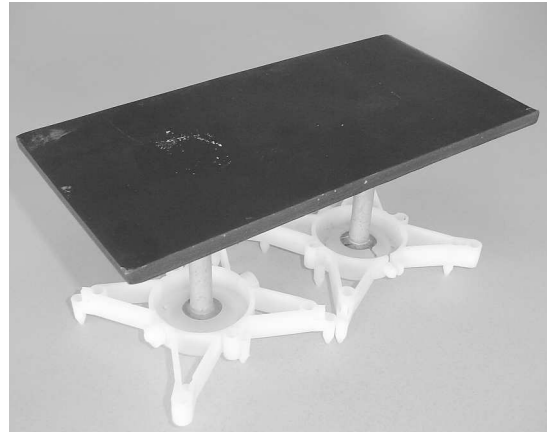
FEATURES

- Easy installation
- Strong connection to concrete through Swiftlift™ anchor
- Enables a superior connection between panels to be made
- Quick easy connection to be made between panel and portal frame
- Supported from base to ensure weldplate remains flush with finished surface
- Forged foot provides better anchorage than bent bar
- Plastic chair allows accurate placement for all panel thicknesses

APPLICATIONS

- Weldplates are cast into concrete panel face to provide a surface for welding to other structural steel components.
- Panels can be fixed to each other in corner situations by welding cast in plates together with a bracket.
- Brackets can be welded to join adjacent panels together.
- Where a portal frame is to be used weldplates can be used to ensure quick and easy connection between concrete panel and steel structure.

WELDPLATE STRENGTH



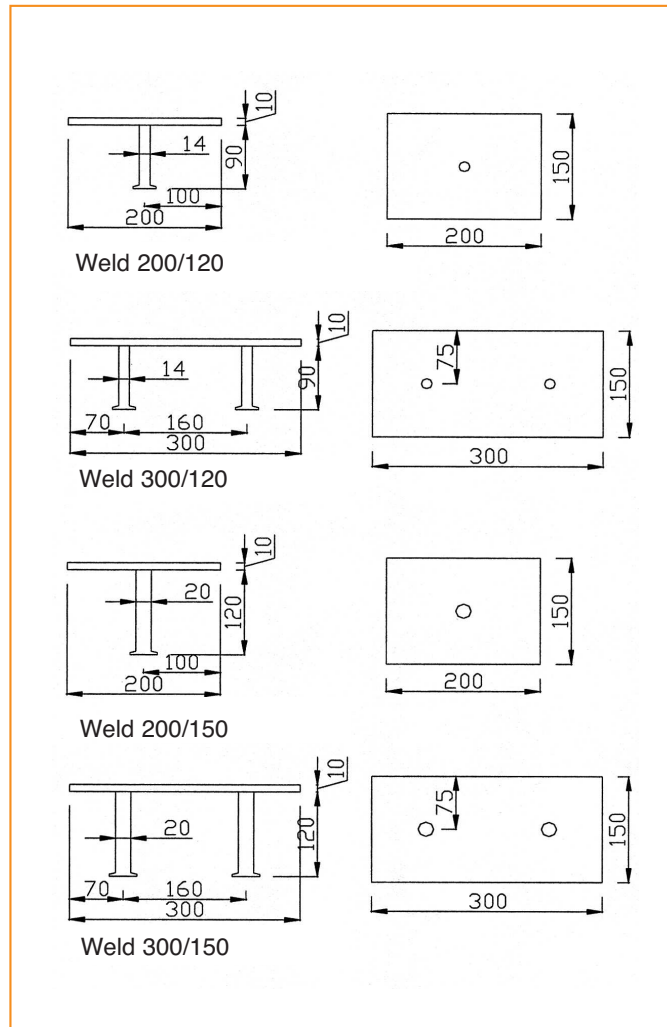
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Ultimate Tension Capacity per WELD PLATE – 30MPa concrete (kN)

WP200/120 (single anchor)	WP200/150 (single anchor)
57.7	97.5
WP300/120 (double anchors)	WP300/150 (double anchors)
94.5	152.4

Tension Capacity Reduction Factors for Anchor close to an edge

Edge Distance (mm)	Reduction factor	Edge Distance (mm)	Reduction factor
300	1.00	390	1.00
250	0.98	340	0.99
200	0.93	290	0.96
150	0.84	240	0.91
100	0.71	190	0.83
70	0.60	140	0.73
		90	0.60
		70	0.53



Ultimate Shear Capacity per WELD PLATE – 30MPa concrete

Shear Capacity Reduction Factors for Anchor close to a corner

Edge Dist.(mm)*	Ultimate Shear Capacity per WELD PLATE – 30MPa concrete				Shear Capacity Reduction Factors for Anchor close to a corner					
	WP200/120	WP200/150	WP300/120	WP300/150	Dist. (mm)		Dist. (mm)		Dist. (mm)	
500	27.4	36.1	30.3	39.9	375	0.85	250	0.8	125	0.75
450	26.0	34.2	29.1	38.3	338	0.85	225	0.8	113	0.75
400	24.5	32.3	27.8	36.6	300	0.85	200	0.8	100	0.75
350	22.9	30.2	26.4	34.8	263	0.85	175	0.8	88	0.75
300	21.2	27.9	25.0	32.9	225	0.85	150	0.8	75	0.75
250	19.4	25.5	23.5	30.9	188	0.85	125	0.8	63	0.75
200	17.3	22.8	21.9	28.9	150	0.85	100	0.8	50	0.75
150	15.0	19.8	20.3	26.8	113	0.85	75	0.8	38	0.75
100	12.2	16.1	18.8	24.7	75	0.85	50	0.8	25	0.75
70	10.2	13.5	18.0	23.8	53	0.85	35	0.8	18	0.75

* Distance of closest anchor to the edge of the concrete