

KNEEBONE, BERETTA & HALL PTY LTD

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Uni-Pier Australia

188 Silverwater Rd

Silverwater NSW 2128

RACKING CAPACITIES OF Uni-Brace AS SUPPLIED BY UNI-PIER AUSTRALIA

Fix braces to sides of Uni-Piers with 2 #14 screws at each end

Racking force capacity for each set of cross braces in kN

Pier Spacing In direction of brace	PIER HEIGHT m			
	900mm	1800mm	2700mm	3600
2.0m	13.6	11.1	8.9	7.3
3.0m	14.4	12.8	11.1	9.6
4.0m	14.6	13.7	12.4	11.6
4.8m	14.8	14.1	13.2	12.1

Calculation example:

Wind area N2

Building area facing wind direction = 16m wide x 4.5m high (depends of wall height & roof pitch)
= 72 sq meters

From table racking force = $0.96 \times 72 = 69.12$ kN

Pier spacing = 2.0m

Pier height = 1.8m

Capacity of each cross brace set from table above = 11.1 kN

Total number braces required in sub-floor in direction of wind force
= $69.12 / 11.1 = 6.2$ - Use 7 bracing sets

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for KNEEBONE BERETTA & HALL PTY LTD

Consulting Engineers