

Wilmaplex Pty Ltd.
57 Lathams Road,
Carrum Downs, Vic 3201
Mr Graham storey

RE/ Wilmaplex Multi Grip MG100 Design Capacity

This is to confirm that Wilmaplex commissioned CEMQA Pty. Ltd. to undertake the task of evaluating the design capacity of G300 Z275 Multi Grips MG100 & MG130, with 5 nails on each face of the pair as shown in Figure 1. The evaluation was carried out via testing and computations based on 5 of 3.15x35mm Wilmaplex galvanized flat head nails on each face. The design capacities for a pair of Mini Grips are given in Table 1. Refer report Job No. Wilmaplex/15/MG100 for more details.

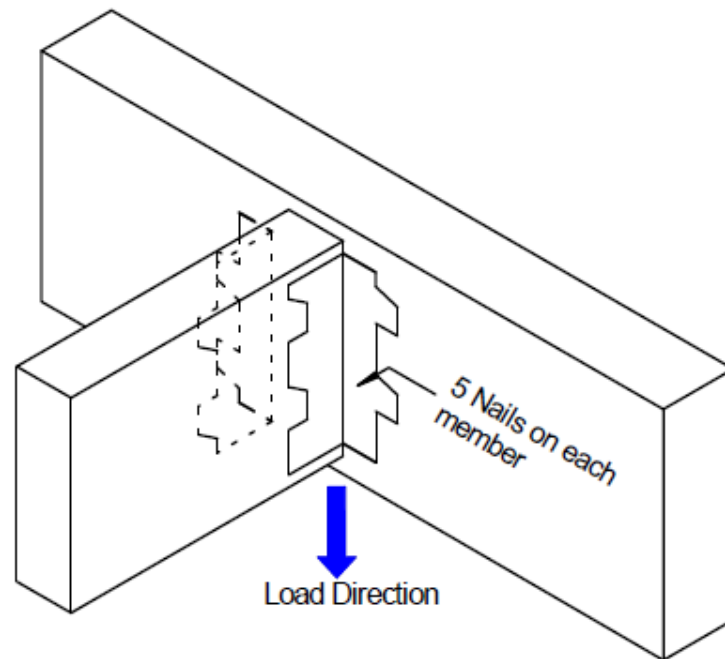


Figure 1 Details of Multi Grip MG100

Notes:

1. A capacity factor $\phi = 0.85$ and a duration factor $k_1 = 1.14$ for wind uplift loading was applied to all the capacities in Table 1.
2. The values in Table 1 apply to Category 1 joints, design capacities for joint groups 2 and 3 are 0.94 and 0.88 consecutively.
3. Computations were undertaken in accordance with the relevant Standards, AS1720, AS/NZS1170 series and AS4055.

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**Table 1 Limit states design capacities for a PAIR of Wilmaplex Multi Grip
MG57**

Mini Grip Code	Fixing (Nails) for a pair of Mini grips	1.35G Dead Load (kN)	1.2G+1.5Q _f Dead + Floor Live Load	Wind Uplift (k ₁ =1.14)
		design Capacity (kN) for Joint Group JD4		
MG100 & MG130	10	3.9	5.3	6.6