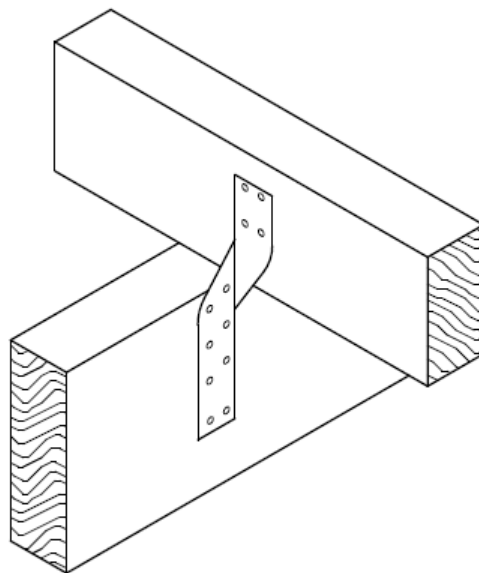


**Wilmaplex Pty Ltd.**  
**57 Lathams Road,**  
**Carrum Downs, Vic 3201**  
Mr Graham storey

**RE/ Wilmaplex Unities UTLH & UTRH Design Capacity**

This is to confirm that Wilmaplex commissioned CEMQA Pty. Ltd. to undertake the task of evaluating the design capacity of G300 Z275 Unities UTLH and UTRH with 4 nails onto each end as shown in Figure 1. The evaluation was carried out via testing and computations based on 4 of 3.15x35mm Wilmaplex galvanized flat head nails into each end. The design capacities are given in Table 1. Refer report Job No. Wilmaplex/15/UT 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 and AS/NZS1170 series.*

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**Table 1      Limit states design capacities for a of Wilmaplex Unitie UTLH & UTRH**

Unitie Code	Fixing (Nails) into each end	1.35G	1.2G+1.5Q <sub>f</sub>	1.2G+1.5Q <sub>r</sub>	1.2G+W <sub>dn</sub> Or Wind Uplift
		Design Capacity (kN) for Joint Group JD4			
UTLH & UTRH	4	1.6	1.9	2.2	3.1