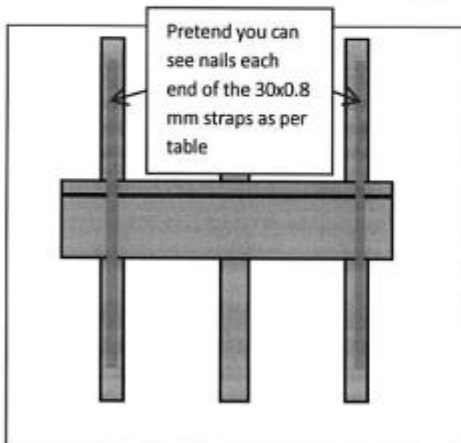


APPLICATION FORM – DA FORM 2

Single straight straps for tie-down and bracing walls

A recent enquiry from one of our Certifier members (thanks Zane) asked if it was OK to use single straps on the outside of frames to tie down bracing and tie-down walls to the lower floor.

In our response we advised that we considered this should be OK provided appropriate tie-down capacities were used for the number and size of nails each end of each strap and that only one strap per stud could be used. Because it is just a single straight strap, the number of effective nails is the number of nails each end of the strap so a detail and capacities such as below would be appropriate.



No 2.8 dia. Nails each end of each 30x0.8 mm strap	No 2.5 dia gun nails each end of each 30x0.8 mm strap	Uplift Capacity (kN) for					
		J2	J3	J4	JD4	JD5	JD6
4	5	4.9	3.5	2.5	3.5	2.9	2.2
6	7	6.5	4.7	3.3	4.7	3.8	2.9
8	9	6.5	5.9	4.2	5.9	4.9	3.7
12	14	6.5	6.5	5.9	6.5	6.5	5.2

Notes: 1. Gun nails in strap to be located exactly in pre-punched holes **but because you're not that good** keep nails well away from existing holes and strap edges.

2. Min distance from stud end to first nail =100mm to prevent splitting