

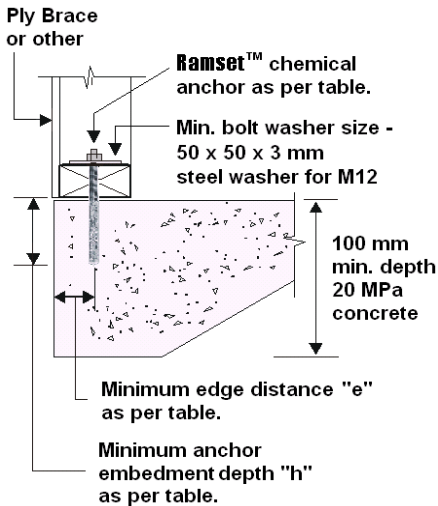
Limit State Uplift Capacity

Ramset™ Chemical Anchoring Systems

Using M12 ChemSet™ Anchor Studs

Date	14/05/12
Reference	TDS04062

Limit State Design uplift capacity of Ramset™ Chemical Anchoring - Anchor Studs used in wall frame tie-down connection (ply brace or other).



Tie Down Capacity of Bolts through Timber as per AS 1684.2-1999

Bolt Size	Uplift capacity (kN)					
	Unseasoned timber			Seasoned timber		
	J2	J3	J4	JD4	JD5	JD6
M12	27	27	26	20	16	12



Ramset™ Chemical Anchoring Systems

Anchoring Adhesive System	Part Number	Anchor Size, d_b	Installation details					Uplift Capacity (kN)
			Drilled Hole Diam. (in concrete), d_h (mm)	Fixture Hole Diam. (in timber), d_f (mm)	Min. Edge Distance, e (mm)	Min. Anchor Spacing, a (mm)	Anchor Embed. Depth, h (mm)	
ChemSet™ Reo 502™	REO502J	M12	14	15	35	75	75	17.5

- Note:**
1. Uplift Capacity is based on installation into concrete with 20 MPa concrete compressive strength
 2. Uplift Capacity is based on Strength Limit State Design of the Specifiers Resource Book Edition 3 located in the Chemical Anchoring Anchor Stud Section - pages 44 to 86.
 3. Uplift Capacity is per anchor
 4. Minimum concrete substrate thickness can be $b_m = 100$ mm
 5. Uplift Capacity is based on applied tensile loads only and assumes there are no applied shear loads