



## SUPRAFRAME® Design Reference Frame Tie Down - Non Cyclonic

### Frame Tie Down Requirements

#### Tie-down Fasteners Capacities

Titacon (or equivalent)	M10 Chemset	M12 Chemset
3.2 kN design load	5.0 kN design load	8.5 kN design load

#### Tie-Down into Non Concrete Floor Joists

Base Material	Fasteners adjacent to studs	Safe Load (kN)	Connection Type
Steel Joists	#10-16 x 45 mm Hex Tek screws – one each side of stud	3.34	Sheet W41N 1200 mm centres Up to 11.0 m truss spans
Hardwood Joist directly under wall	#12-14 x 45 Tek screws per stud	2.70	Sheet W41N 1200 mm centres Up to 9.0 m truss spans



House Framing Solutions



Roofing & Walling Solutions



Rainwater Solutions



Structural Solutions



Fencing Solutions



Home Improvements



Customer Support



# Sheet

## Frame Tie-Down for Common Studs

Truss Span (m)	Minimum Tie Down Requirements								
	W28N			W33N			W41N		
	Truss Centres (mm)								
	600	900	1200	600	900	1200	600	900	1200
4.0	T	T	T	T*	T*	T*	T*	T*	T
5.0 - 8.0	T	T	T	T*	T*	T*	T	T	T
9.0	T	T	T	T*	T*	T	T	T	T
10.0	T	T	T	T	T	T	T	T	C10/TT
11.0	T	T	T	T	T	T	T	T	C10/TT
12.0	T	T	T	T	T	T	C10/TT	C10/TT	C10/TT

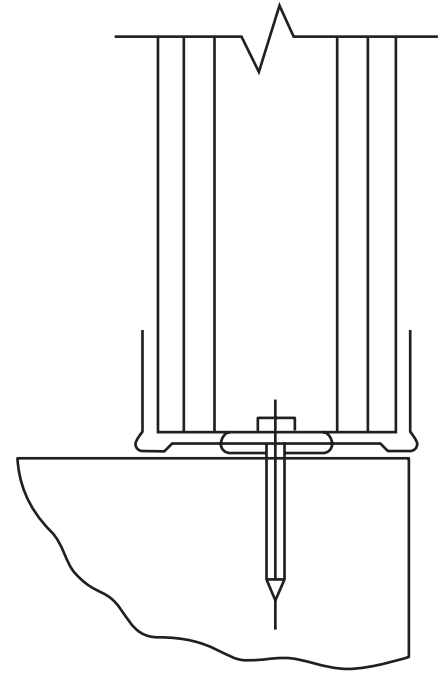
## Frame Tie-Down for Studs Under Girder Truss

Total Area Under Truss	W28N		W33N		W41N	
	Tile	Sheet	Tile	Sheet	Tile	Sheet
10 m <sup>2</sup>	T	T	T	T	T	T
15 m <sup>2</sup>	C12	T	T	T	T	T
20 m <sup>2</sup>	C12	T	T	T	T	C12
25 m <sup>2</sup>	C12	T	T	T	T	C12
30 m <sup>2</sup>	C12	C12	T	C12	T	2 x C12

## Frame Tie-Down for Jamb Studs

Openings up to 2700 mm	W28N		W33N		W41N	
	Tile	Sheet	Tile	Sheet	Tile	Sheet
Wall Height 2400 mm	T	T	T	T	T	C10
2700 mm	T	T	T	T	T	C12

**Note:** N - One RAMSET 38 mm concrete nail with Ø16 x 1.5 mm washer at every second stud.  
 N\* - One RAMSET 38 mm concrete nail with Ø16 x 1.5 mm washer at every stud.  
 T - One TITACON (or equivalent) with Ø32 x 2.5 mm washer at every second stud.  
 Two clinches per side at each stud to bottom plate joint are required.  
 T\* - One TITACON (or equivalent) with Ø32 x 2.5 mm washer at every second stud.  
 Three clinches per side at each stud to bottom plate joint are required.  
 T - One TITACON (or equivalent) with Ø32 x 2.5 mm washer at every stud.  
 C10 - M10 Chemset with 50 x 50 x 3 mm washer at every stud.  
 C12 - M12 Chemset with bracket and washer at every stud.  
 TT - Two TITACONs (or equivalent) with Ø32 x 2.5 mm washer at every stud.



# Tile

## Frame Tie-Down for Common Studs

Truss Span (m)	Minimum Tie Down Requirements								
	W28N			W33N			W41N		
	Truss Centres (mm)								
	600	900	1200	600	900	1200	600	900	1200
up to 12	N	N	N	N	N	N	T*	T*	T*

Information, brochures and your local distributor

1800 641 417

Please check the latest information which is always available at [www.lysaght.com](http://www.lysaght.com)

© Copyright BlueScope Steel Limited 6 November 2003

SUPRAFRAME®, COLORBOND® AND ZINCALUME® are trademarks of BlueScope Steel Limited  
 A.B.N. 16 000 011 058

The LYSAGHT® range of products is exclusively made by BlueScope Steel Limited trading as BlueScope Lysaght.

Note:

This document is to be used in conjunction with the BLUESCOPE LYSAGHT House Framing Customer Information Manual for SUPRAFRAME® Wall Framing System.

Specifications included in this document are subject to change without notice. Reference must be made to a controlled copy of the BLUESCOPE LYSAGHT House Framing Customer Information Manual for current specifications.

