



**Technical Update 18.3**

**December 2018**

## **STUDMATE™**

### **90x35 and 90x45 PINE Wall Studs**

STUDMATE™ is a newly developed grade of structural softwood produced in compliance with AS/NZS 1748 and designed for use as **un-notched** studs in wall frames. They are suitable for use in Upper or Lower Storey structural timber house framing with sheet roofs and tile roofs in N1 and N2 wind classifications.

Separate tables are provided for:

- Common studs in Single storey or Upper storey of two storey houses
- Common studs in Lower storey of two storey houses
- Jamb studs in Single storey or Upper storey of two storey houses
- Jamb studs in Lower storey of two storey houses
- Studs supporting concentrated loads in Single storey or Upper storey of two storey houses
- Studs supporting concentrated loads in Lower storey of two storey houses

The STUDMATE™ span tables are engineer designed and prepared using the design criteria in AS 1720.3:2016. The span tables are compatible with those in AS 1684.2 Supplements.

STUDMATE™ has Joint Strength Group JD5.

**The notes to similar tables in AS 1684.2 Supplements also apply to these tables.**

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**COMMON STUDS IN SINGLE STOREY OR  
UPPER STOREY OF TWO STOREY HOUSES**

**STUDMATE with 450mm Stud spacing  
for Sheet and Tile Roofs**

**N1 Wind Classification**

STUDMATE	Stud Spacing mm	Sheet Roof			Tile Roof		
		450			450		
	Rafter Spacing mm	600	900	1200	600	900	1200
	Stud Height	RLW			RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7400
	2660	7500	7500	7500	7500	7500	6100
	2700	7500	7500	7500	7500	7500	5900
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

**N2 Wind Classification**

STUDMATE	Stud Spacing mm	Sheet Roof			Tile Roof		
		450			450		
	Rafter Spacing mm	600	900	1200	600	900	1200
	Stud Height	RLW			RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	6800
	2660	7500	7500	7500	7500	6900	5200
	2700	7500	7500	7500	7500	6500	4800
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7400
	2700	7500	7500	7500	7500	7500	7000
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

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**COMMON STUDS IN SINGLE STOREY OR  
UPPER STOREY OF TWO STOREY HOUSES**

**STUDMATE with 600mm Stud spacing  
for Sheet and Tile Roofs**

**N1 Wind Classification**

STUDMATE	Stud Spacing mm	Sheet Roof			Tile Roof		
		600			600		
	Rafter Spacing mm	600	900	1200	600	900	1200
	Stud Height	RLW			RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7400
	2660	7500	7500	7500	7500	7500	5800
	2700	7500	7500	7500	7500	7300	5400
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

**N2 Wind Classification**

STUDMATE	Stud Spacing mm	Sheet Roof			Tile Roof		
		600			600		
	Rafter Spacing mm	600	900	1200	600	900	1200
	Stud Height	RLW			RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	6900
	2490	7500	7500	7500	7500	7500	5900
	2660	7500	7500	6600	7500	5600	4200
	2700	7500	7500	6100	7500	5200	3900
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	6500
	2700	7500	7500	7500	7500	7500	6000
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

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**COMMON STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE with 450mm Stud spacing**  
**for Sheet Roofs**

**N1 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW mm	1800	3600	4800	1800	3600	4800
	Stud Height	Maximum RLW			Maximum RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

**N2 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW mm	1800	3600	4800	1800	3600	4800
	Stud Height	Maximum RLW			Maximum RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

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**COMMON STUDS IN LOWER STOREY  
OF TWO STOREY HOUSES**

**STUDMATE with 450mm Stud spacing  
for Tile Roofs**

**N1 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW mm	1800	3600	4800	1800	3600	4800
	Stud Height	Maximum RLW			Maximum RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	6300
	2700	7500	7500	7500	7500	7500	5400
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

**N2 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW mm	1800	3600	4800	1800	3600	4800
	Stud Height	Maximum RLW			Maximum RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	6300
	2700	7500	7500	7500	7500	7500	5400
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

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**COMMON STUDS IN LOWER STOREY  
OF TWO STOREY HOUSES**

**STUDMATE with 600mm Stud spacing  
for Sheet Roofs**

**N1 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW (mm)	1800	3600	4800	1800	3600	4800
	Stud Height	RLW			RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

**N2 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW (mm)	1800	3600	4800	1800	3600	4800
	Stud Height	RLW			RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	6700	7500	7500	6700
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

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**COMMON STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE with 600mm Stud spacing**  
**for Tile Roofs**

**N1 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW mm	1800	3600	4800	1800	3600	4800
	Stud Height	Maximum RLW			Maximum RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	6300	7500	7500	6300
	2700	7500	7500	5400	7500	7500	5400
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

**N2 Wind Classification**

STUDMATE	Floor joist spacing (mm)	450			600		
	Upper FLW mm	1800	3600	4800	1800	3600	4800
	Stud Height	Maximum RLW			Maximum RLW		
1/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7100	5900	5000	7100	5900	5000
	2700	6400	5200	4300	6400	5200	4300
2/90 x 35	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
1/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500
2/90 x 45	2400	7500	7500	7500	7500	7500	7500
	2490	7500	7500	7500	7500	7500	7500
	2660	7500	7500	7500	7500	7500	7500
	2700	7500	7500	7500	7500	7500	7500

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**JAMB STUDS IN SINGLE STOREY OR UPPER STOREY  
OF TWO STOREY HOUSES**

**STUDMATE for Sheet Roofs**

N1 Wind Classification

	Roof Load Width (mm)	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening				
1/90 x 35	2400	2300	1900	1600	1400	1200
	2490	2000	1700	1400	1200	1000
	2660	1700	1400	1100	1000	800
	2700	1600	1300	1100	900	800
2/90 x 35	2400	6000	5200	4500	3900	3500
	2490	5700	4800	4100	3600	3200
	2660	4900	4100	3500	3000	2700
	2700	4700	3900	3400	2900	2600
3/90 x 35	2400	6000	6000	6000	6000	5800
	2490	6000	6000	6000	6000	5300
	2660	6000	6000	5900	5200	4600
	2700	6000	6000	5700	5000	4400
1/90 x 45	2400	3200	2700	2300	2000	1800
	2490	2900	2400	2100	1800	1600
	2660	2400	2000	1700	1500	1300
	2700	2300	1900	1600	1400	1200
2/90 x 45	2400	6000	6000	6000	5300	4700
	2490	6000	6000	5500	4900	4300
	2660	6000	5500	4700	4200	3700
	2700	6000	5300	4600	4000	3500
3/90 x 45	2400	6000	6000	6000	6000	6000
	2490	6000	6000	6000	6000	6000
	2660	6000	6000	6000	6000	6000
	2700	6000	6000	6000	6000	5900

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**JAMB STUDS IN SINGLE STOREY OR UPPER STOREY  
OF TWO STOREY HOUSES**

**STUDMATE for Sheet Roofs**

N2 Wind Classification

	Roof Load Width (mm)	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening				
1/90 x 35	2400	1400	1200	1000	800	700
	2490	1200	1000	900	700	600
	2660	1000	800	700	500	400
	2700	900	700	600	500	400
2/90 x 35	2400	4300	3700	3200	2800	2500
	2490	3900	3400	2900	2600	2300
	2660	3300	2800	2500	2100	1900
	2700	3200	2700	2400	2100	1800
3/90 x 35	2400	6000	6000	5400	4800	4300
	2490	6000	5700	5000	4400	3900
	2660	5700	4900	4300	3800	3400
	2700	5500	4700	4100	3600	3200
1/90 x 45	2400	2100	1800	1500	1300	1200
	2490	1900	1600	1400	1200	1000
	2660	1500	1300	1100	900	800
	2700	1500	1200	1000	900	700
2/90 x 45	2400	5800	5000	4400	3900	3500
	2490	5300	4600	4000	3500	3100
	2660	4500	3900	3400	3000	2700
	2700	4400	3800	3300	2900	2600
3/90 x 45	2400	6000	6000	6000	6000	5800
	2490	6000	6000	6000	5900	5300
	2660	6000	6000	5700	5100	4500
	2700	6000	6000	5500	4900	4400

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**JAMB STUDS IN SINGLE STOREY OR UPPER STOREY  
OF TWO STOREY HOUSES**

**STUDMATE for Tile Roofs**

N1 Wind Classification

	Roof Load Width (mm)	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening				
1/90 x 35	2400	2000	1500	1200	900	800
	2490	1800	1400	1000	800	700
	2660	1500	1100	800	600	500
	2700	1400	1000	800	600	400
2/90 x 35	2400	5500	4300	3500	2900	2500
	2490	5100	3900	3200	2600	2200
	2660	4300	3300	2700	2200	1900
	2700	4200	3200	2600	2100	1800
3/90 x 35	2400	6000	6000	5800	4900	4200
	2490	6000	6000	5300	4500	3800
	2660	6000	5600	4600	3800	3300
	2700	6000	5400	4400	3700	3100
1/90 x 45	2400	2800	2200	1800	1400	1200
	2490	2600	2000	1600	1300	1100
	2660	2100	1600	1300	1000	800
	2700	2100	1600	1200	1000	800
2/90 x 45	2400	6000	5800	4700	4000	3400
	2490	6000	5300	4300	3600	3100
	2660	5800	4500	3700	3100	2600
	2700	5600	4400	3600	3000	2500
3/90 x 45	2400	6000	6000	6000	6000	5600
	2490	6000	6000	6000	6000	5100
	2660	6000	6000	6000	5100	4400
	2700	6000	6000	5900	5000	4300

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**JAMB STUDS IN SINGLE STOREY OR UPPER STOREY  
OF TWO STOREY HOUSES**

**STUDMATE for Tile Roofs**

N2 Wind Classification

	Roof Load Width mm	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening				
1/90 x 35	2400	1300	1000	800	600	500
	2490	1100	800	600	500	400
	2660	900	600	500	300	200
	2700	800	600	400	300	200
2/90 x 35	2400	3900	3200	2600	2200	1900
	2490	3600	2900	2400	2000	1700
	2660	3000	2400	2000	1600	1400
	2700	2900	2300	1900	1600	1300
3/90 x 35	2400	6000	5400	4500	3800	3300
	2490	6000	4900	4100	3500	3000
	2660	5300	4200	3500	2900	2500
	2700	5100	4100	3400	2800	2400
1/90 x 45	2400	1900	1500	1200	1000	800
	2490	1700	1300	1100	900	700
	2660	1400	1100	800	700	500
	2700	1300	1000	800	600	500
2/90 x 45	2400	5300	4300	3600	3000	2600
	2490	4900	3900	3300	2800	2400
	2660	4200	3300	2800	2300	2000
	2700	4000	3200	2700	2200	1900
3/90 x 45	2400	6000	6000	6000	5100	4500
	2490	6000	6000	5500	4700	4100
	2660	6000	5700	4700	4000	3500
	2700	6000	5500	4600	3900	3400

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**JAMB STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE for Sheet and Tile Roofs**  
**Upper Floor Load Width 1800 mm**

N1 Wind Classification

Roof Load Width (mm)		1500	3000	4500	6000	7500	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening									
		Sheet Roof					Tile roof				
1/90 x 35	2400	1700	1600	1400	1300	1100	1600	1300	1000	NS	NS
	2490	1500	1500	1300	1100	1000	1300	1100	900	NS	NS
	2660	1200	1100	1100	900	NS	1100	900	NS	NS	NS
	2700	1100	1100	900	900	NS	1000	900	NS	NS	NS
2/90 x 35	2400	4500	4500	4300	3900	3600	4500	3800	3100	2500	2000
	2490	4400	4100	3900	3500	3200	4000	3500	2800	2200	1800
	2660	3800	3600	3300	3000	2700	3400	2900	2400	1900	1500
	2700	3600	3500	3200	2900	2600	3300	2800	2300	1800	1400
3/90 x 35	2400	4500	4500	4500	4500	4500	4500	4500	4500	4200	3400
	2490	4500	4500	4500	4500	4500	4500	4500	4500	3800	3100
	2660	4500	4500	4500	4500	4500	4500	4500	4100	3200	2600
	2700	4500	4500	4500	4500	4500	4500	4500	4000	3100	2500
1/90 x 45	2400	2500	2300	2100	1900	1700	2300	1900	1500	1200	900
	2490	2300	2100	1900	1700	1600	2100	1700	1400	1100	NS
	2660	1900	1700	1500	1500	1200	1700	1400	1100	NS	NS
	2700	1700	1700	1500	1300	1200	1700	1300	1100	NS	NS
2/90 x 45	2400	4500	4500	4500	4500	4500	4500	4500	4200	3400	2700
	2490	4500	4500	4500	4500	4500	4500	4500	3900	3100	2500
	2660	4500	4500	4500	4100	3900	4500	4000	3300	2600	2100
	2700	4500	4500	4400	4000	3600	4500	3800	3100	2500	2100
3/90 x 45	2400	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
	2490	4500	4500	4500	4500	4500	4500	4500	4500	4500	4200
	2660	4500	4500	4500	4500	4500	4500	4500	4500	4400	3600
	2700	4500	4500	4500	4500	4500	4500	4500	4500	4200	3500

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**JAMB STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE for Sheet and Tile Roofs**  
**Upper Floor Load Width 1800 mm**

N2 Wind Classification

Roof Load Width (mm)		1500	3000	4500	6000	7500	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening									
		Sheet Roof					Tile roof				
1/90 x 35	2400	1100	1000	900	900	NS	1000	900	NS	NS	NS
	2490	1000	900	NS	NS	NS	900	NS	NS	NS	NS
	2660	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 35	2400	3600	3400	3200	2900	2600	3300	2800	2400	1900	1500
	2490	3300	3100	2800	2700	2400	3000	2600	2100	1700	1400
	2660	2800	2600	2400	2200	2000	2600	2200	1800	1400	1100
	2700	2700	2500	2300	2100	1900	2500	2100	1700	1300	1000
3/90 x 35	2400	4500	4500	4500	4500	4500	4500	4500	4100	3300	2700
	2490	4500	4500	4500	4500	4200	4500	4400	3800	3000	2400
	2660	4500	4500	4300	3900	3600	4500	3800	3200	2600	2100
	2700	4500	4400	4000	3800	3500	4300	3700	3100	2500	2000
1/90 x 45	2400	1700	1600	1400	1300	1200	1600	1300	1100	NS	NS
	2490	1500	1500	1300	1200	1000	1500	1200	1000	NS	NS
	2660	1200	1100	1100	900	NS	1100	900	NS	NS	NS
	2700	1100	1100	900	900	NS	1000	900	NS	NS	NS
2/90 x 45	2400	4500	4500	4400	4000	3700	4500	3900	3300	2700	2200
	2490	4400	4300	4000	3600	3400	4200	3600	3000	2400	2000
	2660	3800	3600	3300	3000	2900	3500	3000	2600	2000	1600
	2700	3600	3500	3200	2900	2700	3400	2900	2500	1900	1600
3/90 x 45	2400	4500	4500	4500	4500	4500	4500	4500	4500	4500	3800
	2490	4500	4500	4500	4500	4500	4500	4500	4500	4100	3400
	2660	4500	4500	4500	4500	4500	4500	4500	4400	3500	2900
	2700	4500	4500	4500	4500	4500	4500	4500	4200	3400	2800

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**JAMB STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE for Sheet and Tile Roofs**  
**Upper Floor Load Width 3600 mm**

N1 Wind Classification

Roof Load Width (mm)		1500	3000	4500	6000	7500	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening									
		Sheet Roof					Tile roof				
		1/90 x 35	2400	1100	1100	900	900	NS	900	NS	NS
2490	1000		900	NS	NS	NS	900	NS	NS	NS	NS
2660	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS
2700	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 35	2400	2900	2900	2800	2600	2500	2500	2200	1900	1800	1500
	2490	2600	2600	2600	2400	2300	2300	1900	1800	1700	1300
	2660	2200	2200	2100	2000	1900	1900	1600	1500	1400	1100
	2700	2100	2100	2000	1900	1800	1900	1600	1500	1300	1000
3/90 x 35	2400	4500	4500	4500	4500	4200	4000	3500	3200	3100	2400
	2490	4300	4200	4100	4100	3900	3700	3200	2900	2800	2300
	2660	3600	3600	3600	3500	3300	3200	2700	2500	2400	1900
	2700	3500	3500	3400	3400	3200	3000	2600	2400	2300	1800
1/90 x 45	2400	1600	1500	1400	1400	1200	1400	1200	1000	900	NS
	2490	1500	1300	1300	1200	1100	1200	1000	900	NS	NS
	2660	1200	1100	1000	1000	NS	1000	NS	NS	NS	NS
	2700	1200	1100	900	900	NS	900	NS	NS	NS	NS
2/90 x 45	2400	3900	3900	3800	3600	3400	3300	2900	2700	2500	2000
	2490	3500	3500	3500	3300	3100	3100	2600	2400	2400	1900
	2660	3000	3000	2900	2800	2600	2600	2300	2000	1900	1600
	2700	3000	2900	2900	2700	2500	2600	2200	2000	1900	1500
3/90 x 45	2400	4500	4500	4500	4500	4500	4500	4500	4200	4100	3300
	2490	4500	4500	4500	4500	4500	4500	4300	3900	3800	3100
	2660	4500	4500	4500	4500	4400	4200	3700	3300	3200	2600
	2700	4500	4500	4500	4500	4300	4100	3500	3200	3100	2500

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**JAMB STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE for Sheet and Tile Roofs**  
**Upper Floor Load Width 3600 mm**

N2 Wind Classification

Roof Load Width (mm)		1500	3000	4500	6000	7500	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening									
		Sheet Roof					Tile roof				
1/90 x 35	2400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2490	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2660	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 35	2400	2400	2300	2100	2000	1900	2100	1800	1500	1500	1200
	2490	2200	2000	1900	1800	1700	1900	1600	1500	1300	1000
	2660	1800	1800	1600	1500	1400	1600	1300	1100	1000	NS
	2700	1700	1700	1600	1500	1300	1600	1200	1100	1000	NS
3/90 x 35	2400	4100	3900	3700	3500	3300	3700	3100	2800	2600	2000
	2490	3800	3600	3400	3200	3000	3300	2800	2500	2400	1900
	2660	3200	3100	2900	2700	2500	2900	2400	2100	2000	1600
	2700	3100	2900	2800	2600	2500	2700	2300	2000	1900	1500
1/90 x 45	2400	1200	1100	1000	900	NS	1000	NS	NS	NS	NS
	2490	1000	1000	NS	NS	NS	900	NS	NS	NS	NS
	2660	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 45	2400	3300	3200	2900	2800	2600	2900	2500	2200	2100	1700
	2490	3000	2900	2700	2500	2400	2600	2300	2000	1900	1500
	2660	2600	2500	2300	2100	2000	2300	1900	1700	1600	1300
	2700	2500	2300	2200	2000	1900	2200	1800	1600	1500	1200
3/90 x 45	2400	4500	4500	4500	4500	4500	4500	4100	3700	3500	2800
	2490	4500	4500	4500	4400	4100	4400	3800	3400	3200	2600
	2660	4400	4100	3900	3700	3500	3800	3300	2900	2800	2200
	2700	4200	4000	3800	3600	3400	3700	3100	2800	2600	2100

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**JAMB STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE for Sheet and Tile Roofs**  
**Upper Floor Load Width 4800 mm**

N1 Wind Classification

Roof Load Width (mm)		1500	3000	4500	6000	7500	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening									
		Sheet Roof					Tile roof				
1/90 x 35	2400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2490	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2660	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 35	2400	2100	1900	1700	1600	1600	1800	1500	1300	1000	1000
	2490	1900	1800	1500	1400	1400	1600	1400	1200	1000	900
	2660	1600	1400	1300	1200	1200	1400	1200	1000	NS	NS
	2700	1600	1400	1200	1100	1200	1300	1100	900	NS	NS
3/90 x 35	2400	3400	3100	2800	2600	2600	3000	2500	2200	1800	1700
	2490	3100	2900	2600	2400	2400	2700	2300	2000	1600	1600
	2660	2600	2400	2200	2000	2000	2300	2000	1700	1400	1300
	2700	2600	2300	2100	1900	2000	2300	1900	1600	1400	1300
1/90 x 45	2400	1200	1000	900	NS	900	1000	NS	NS	NS	NS
	2490	1000	1000	NS	NS	NS	900	NS	NS	NS	NS
	2660	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 45	2400	2800	2600	2400	2100	2200	2500	2000	1800	1500	1500
	2490	2600	2400	2100	2000	2000	2300	1900	1600	1400	1300
	2660	2200	2000	1800	1700	1700	1900	1600	1400	1100	1100
	2700	2100	1900	1700	1600	1700	1900	1500	1300	1100	1000
3/90 x 45	2400	4500	4100	3700	3500	3500	4000	3300	2900	2400	2400
	2490	4100	3800	3400	3200	3200	3600	3000	2700	2300	2200
	2660	3500	3300	3000	2700	2800	3100	2600	2300	1900	1900
	2700	3500	3200	2900	2700	2700	3000	2500	2200	1800	1800

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**JAMB STUDS IN LOWER STOREY**  
**OF TWO STOREY HOUSES**

**STUDMATE for Sheet and Tile Roofs**  
**Upper Floor Load Width 4800 mm**

N2 Wind Classification

Roof Load Width (mm)		1500	3000	4500	6000	7500	1500	3000	4500	6000	7500
STUDMATE	Stud Height (mm)	Maximum Width of Opening									
		Sheet Roof					Tile roof				
1/90 x 35	2400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2490	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2660	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 35	2400	2100	1800	1600	1400	1300	1800	1500	1300	1000	900
	2490	1900	1700	1400	1300	1200	1600	1400	1100	900	NS
	2660	1600	1400	1200	1000	1000	1400	1100	900	NS	NS
	2700	1600	1400	1100	1000	900	1300	1100	NS	NS	NS
3/90 x 35	2400	3400	3100	2800	2400	2400	3000	2500	2200	1800	1700
	2490	3100	2900	2500	2200	2200	2700	2300	2000	1600	1500
	2660	2600	2400	2100	1900	1800	2300	2000	1700	1400	1300
	2700	2600	2300	2000	1900	1800	2300	1900	1600	1300	1200
1/90 x 45	2400	1000	900	NS	NS	NS	900	NS	NS	NS	NS
	2490	900	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2660	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/90 x 45	2400	2800	2600	2200	2000	1900	2500	2000	1800	1400	1300
	2490	2600	2300	2000	1800	1700	2300	1900	1600	1300	1200
	2660	2200	2000	1700	1500	1400	1900	1600	1300	1100	1000
	2700	2100	1900	1600	1400	1400	1900	1500	1300	1000	1000
3/90 x 45	2400	4500	4100	3700	3300	3200	4000	3300	2900	2400	2400
	2490	4100	3800	3400	3000	3000	3600	3000	2700	2300	2100
	2660	3500	3300	3000	2600	2500	3100	2600	2300	1900	1800
	2700	3500	3200	2800	2500	2400	3000	2500	2200	1800	1700

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**STUDS SUPPORTING CONCENTRATED LOADS IN  
SINGLE STOREY OR UPPER STOREY OF TWO STOREY HOUSES**

**N1 Wind Classification**

STUDMATE	Stud Height (mm)	Maximum Area of roof supported (m <sup>2</sup> )	
		Sheet Roof	Tile roof
1/90 x 35	2400	22	9
	2490	20	8
	2660	16	7
	2700	15	7
2/90 x 35	2400	40	19
	2490	40	17
	2660	33	14
	2700	31	14
3/90 x 35	2400	40	29
	2490	40	26
	2660	40	22
	2700	40	21
1/90 x 45	2400	28	12
	2490	26	11
	2660	21	9
	2700	20	9
2/90 x 45	2400	40	25
	2490	40	23
	2660	40	19
	2700	40	18
3/90 x 45	2400	40	38
	2490	40	34
	2660	40	28
	2700	40	27

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**STUDS SUPPORTING CONCENTRATED LOADS IN  
SINGLE STOREY OR UPPER STOREY OF TWO STOREY HOUSES**

**N2 Wind Classification**

STUDMATE	Stud Height (mm)	Maximum Area of roof supported (m <sup>2</sup> )	
		Sheet Roof	Tile roof
1/90 x 35	2400	19	9
	2490	17	8
	2660	14	7
	2700	13	7
2/90 x 35	2400	38	19
	2490	35	17
	2660	29	14
	2700	27	14
3/90 x 35	2400	40	29
	2490	40	26
	2660	40	22
	2700	40	21
1/90 x 45	2400	24	12
	2490	22	11
	2660	18	9
	2700	17	9
2/90 x 45	2400	40	25
	2490	40	23
	2660	37	19
	2700	35	18
3/90 x 45	2400	40	38
	2490	40	34
	2660	40	28
	2700	40	27

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**STUDS SUPPORTING CONCENTRATED LOADS IN  
LOWER STOREY OF TWO STOREY HOUSES**

All Wind Classifications

STUDMATE	Stud Height (mm)	Maximum Area of roof supported (m <sup>2</sup> )
1/90 x 35	2400	6
	2490	5
	2660	4
	2700	4
2/90 x 35	2400	12
	2490	11
	2660	9
	2700	8
3/90 x 35	2400	18
	2490	16
	2660	13
	2700	13
1/90 x 45	2400	7
	2490	7
	2660	5
	2700	5
2/90 x 45	2400	15
	2490	14
	2660	11
	2700	11
3/90 x 45	2400	23
	2490	21
	2660	17
	2700	17

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