

## PERMISSIBLE CLEAR SPANS OF TRIMMER BEAMS SUPPORTING TRIMMED FLOOR JOISTS AND NON-LOAD-BEARING LIGHTWEIGHT PARTITIONS (C16 GRADE TIMBER).

Trimmer size (mm)	Loaded length (m) L on figure					
	1.0	2.0	3.0	4.0	5.0	6.0
	Clear span (m) S on figure					
2No.x 38 x 147	2.37	1.91	1.58	1.36	1.16	0.87
2No.x 38 x 170	2.75	2.23	1.85	1.60	1.42	1.11
2No.x 38 x 195	3.17	2.57	2.14	1.86	1.65	1.38
2No.x 38 x 220	3.58	2.90	2.43	2.11	1.88	1.64
2No.x 47 x 147	2.56	2.15	1.79	1.55	1.37	1.23
2No.x 47 x 170	2.97	2.50	2.09	1.81	1.61	1.46
2No.x 47 x 195	3.41	2.88	2.41	2.10	1.87	1.70
2No.x 47 x 220	3.86	3.25	2.73	2.39	2.13	1.93
2No.x 63 x 147	2.83	2.39	2.12	1.84	1.64	1.48
2No.x 63 x 170	3.28	2.78	2.46	2.15	1.92	1.74
2No.x 63 x 195	3.77	3.21	2.84	2.48	2.22	2.02
2No.x 63 x 220	4.25	3.63	3.21	2.81	2.52	2.30
2No.x 75 x 147	3.00	2.55	2.27	2.03	1.81	1.64
2No.x 75 x 170	3.48	2.96	2.64	2.37	2.12	1.93
2No.x 75 x 195	3.99	3.41	3.05	2.73	2.45	2.23
2No.x 75 x 220	4.50	3.86	3.45	3.09	2.78	2.53

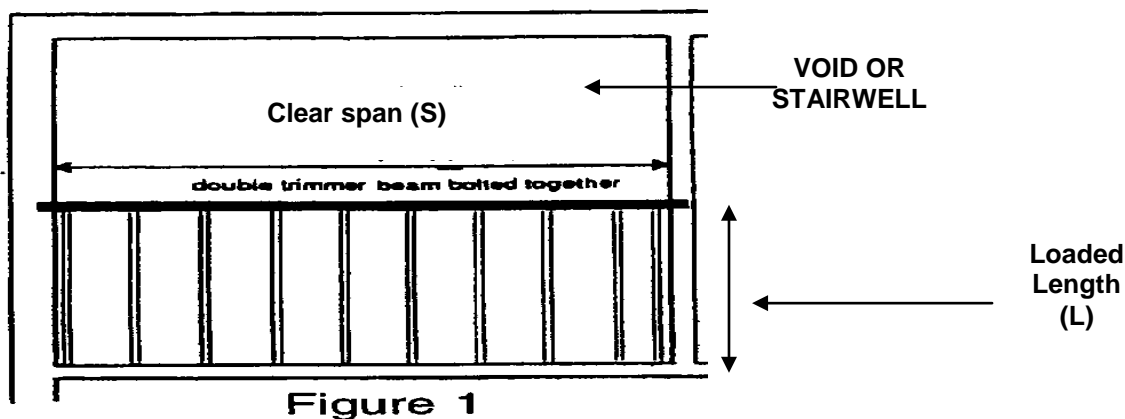


Figure 1

### NOTES:

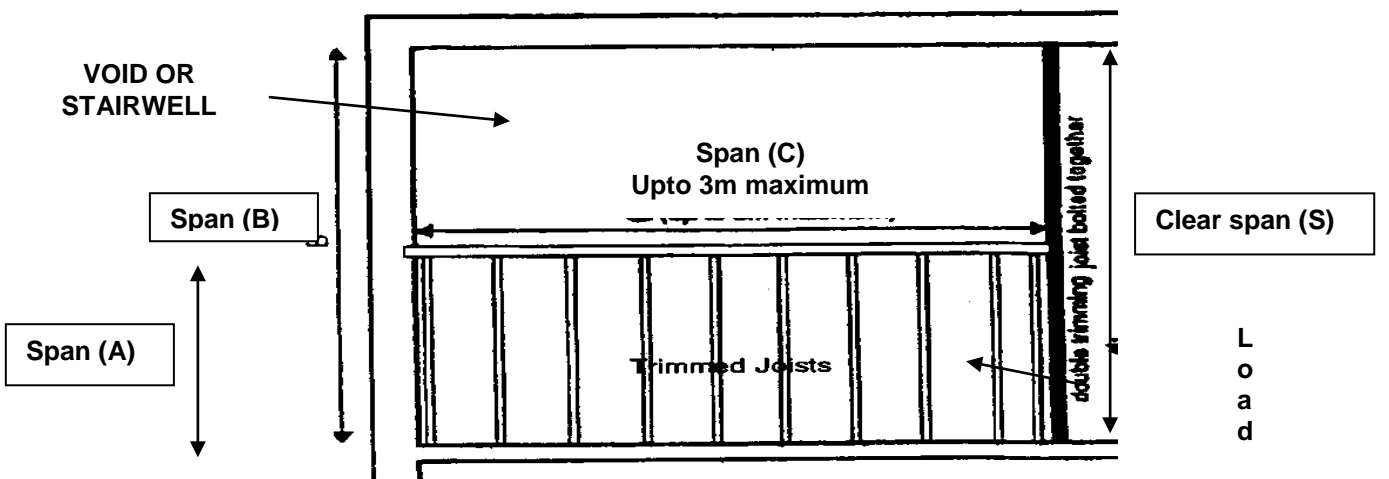
1. Bolt trimmer using 51mm diameter double-sided round toothed plate connectors and M12, grade 4.6 bolts at 600mm centres.
2. Maximum partition load 0.8 kN/m (e.g. timber stud clad with 9.5mm Or 12.5mm plasterboard).
3. Notches not permitted in the trimmer beam.
4. Use proprietary joist hangers to suit the joint width and loading at timber junctions.

# Building Control Guidance Note

Subject	<b>TIMBER TRIMMER BEAMS AND JOISTS</b>						<b>0 8</b>
	<b>Sizes and details for trimming around openings</b>						
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## PERMISSIBLE CLEAR SPANS OF TRIMMER JOISTS SUPPORTING TRIMMER BEAM AND NON-LOAD-BEARING LIGHTWEIGHT PARTITIONS (SC3 / C16 GRADE TIMBER).

See figure below for position of A, B, C and S									
Trimmer size (mm)	For ratios of A/B upto 0.25			For ratios of A/B between 0.26 and upto 0.49			For ratios of A/B between 0.50 and upto 0.74		
	Dimension C (m)			Dimension C (m)			Dimension C (m)		
	1.0	2.0	3.0	1.0	2.0	3.0	1.0	2.0	3.0
	<b>Clear span (m) S on figure</b>								
2No.x 38 x 147	3.02	2.77	2.56	2.55	2.19	1.87	2.45	2.10	1.83
2No.x 38 x 170	3.51	3.23	3.01	2.97	2.55	2.19	2.84	2.44	2.13
2No.x 38 x 195	4.03	3.73	3.49	3.42	2.95	2.55	3.26	2.81	2.46
2No.x 38 x 220	4.55	4.23	3.97	3.87	3.34	2.90	3.69	3.17	2.79
2No.x 47 x 147	3.25	2.98	2.77	2.75	2.44	2.12	2.64	2.36	2.06
2No.x 47 x 170	3.76	3.48	3.25	3.20	2.85	2.48	3.06	2.74	2.40
2No.x 47 x 195	4.32	4.01	3.76	3.68	3.30	2.87	3.51	3.14	2.77
2No.x 47 x 220	4.87	4.54	4.27	4.16	3.74	3.26	3.96	3.54	3.13
2No.x 63 x 147	3.58	3.30	3.08	3.05	2.72	2.48	2.91	2.66	2.43
2No.x 63 x 170	4.14	3.84	3.60	3.53	3.17	2.90	3.37	3.09	2.82
2No.x 63 x 195	4.74	4.42	4.16	4.06	3.66	3.36	3.87	3.55	3.24
2No.x 63 x 220	5.43	5.00	4.72	4.58	4.14	3.82	4.36	4.02	3.65
2No.x 75 x 147	3.78	3.50	3.28	3.23	2.89	2.65	3.09	2.82	2.62
2No.x 75 x 170	4.37	4.07	3.82	3.74	3.37	3.09	3.57	3.28	3.05
2No.x 75 x 195	5.00	4.68	4.41	4.30	3.88	3.58	4.10	3.77	3.52
2No.x 75 x 220	5.62	5.28	4.99	4.84	4.39	4.06	4.62	4.26	3.98



**NOTES:** Refer to previous tables notes.