

ROOF RAFTERS (WHERE NO CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
RAFTER SIZE	ROOF SNOW LOAD 2.0kPa(41.8 psf)			ROOF SNOW LOAD 1.5kPa (31.3 psf)		
	RAFTER SPACING (mm) O.C.			RAFTER SPACING (mm) O.C.		
	300 (12")	400 (16")	600 (24")	300	400	600
38x89	8'-1"	7'-4"	6'-5"	2.72	2.47	2.16
38x140	12'-9"	11'-7"	10'-1"	4.28	3.89	3.40
38x184	16'-9"	15'-3"	12'-9"	5.62	5.11	4.41
38x235	21'-5"	19'-1"	15'-7"	7.18	6.52	5.39

ROOF JOISTS (WHERE CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
JOIST SIZE	ROOF SNOW LOAD 2.0kPa(41.8 psf)			ROOF SNOW LOAD 1.5kPa (31.3 psf)		
	JOIST SPACING (mm) O.C.			JOIST SPACING (mm) O.C.		
	300 (12")	400 (16")	600 (24")	300	400	600
38x89	10'-1"	9'-2"	8'-0"	2.16	1.96	1.71
38x140	13'-4"	12'-1"	10'-7"	3.40	3.08	2.69
38x184	17'-0"	15'-5"	13'-6"	4.46	4.05	3.54
38x235	20'-8"	18'-9"	16'-5"	5.70	5.18	4.52

FLOOR JOISTS

MAXIMUM CLEAR SPAN (M)												
JOIST SIZE	19x64mm STRAPPING OR DRYWALL CLG.			38x38mm CROSS BRIDGING			BOTH STRAPPING & BRIDGING			38-51mm CONCRETE TOPPING		
	JOIST SPACING (mm)			JOIST SPACING (mm)			JOIST SPACING (mm)			JOIST SPACING (mm)		
	300	400	600	300	400	600	300	400	600	300	400	600
38x89	1.86	1.72	1.58	1.99	1.81	1.58	1.99	1.81	1.58	1.99	1.81	1.58
38x140	2.92	2.71	2.49	3.14	2.85	2.49	3.14	2.85	2.49	3.14	2.85	2.49
38x184	3.54	3.36	3.20	3.81	3.58	3.27	3.99	3.72	3.27	4.12	3.75	3.27
38x235	4.17	3.96	3.77	4.44	4.17	3.92	4.60	4.29	4.00	5.27	4.79	4.13
38x286	4.75	4.52	4.30	5.01	4.71	4.42	5.17	4.82	4.49	6.23	5.81	4.79

CEILING JOISTS

MAXIMUM CLEAR SPAN (M)			
JOIST SIZE	JOIST SPACING (mm) O.C.		
	300	400	600
38x89	3.11	2.83	2.47
38x140	4.90	4.45	3.89
38x184	6.44	5.85	5.11
38x235	8.22	7.47	6.52

SUBFLOORING

FLOOR JOIST UP TO (mm) O.C.	SUBFLOORING MIN. THICKNESS (mm)		
	PLYWOOD	WAFER BD.	LUMBER
400	15.5	15.9	17.0
500	15.5	15.9	19.0
600	18.5	19.0	19.0

ROOF SHEATHING

ROOF FRAMING (mm) O.C.	ROOF SHEATHING UNSUPPORTED EDGES MIN. THICKNESS (mm)	ROOF SHEATHING TONGUE & GROOVE, 'H'-CLIPS OR OTHER EDGE SUPPORT MIN. THICKNESS (mm)
300	7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER	7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER
400	9.5 PLYWOOD, 11.1 WAFER BD. OR 17.0 LUMBER	7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER
600	12.5 PLYWOOD OR 19.0 LUMBER	9.5 PLYWOOD, 11.1 WAFER BD. OR 19.0 LUMBER

GENERAL NOTES

- ALL LUMBER TO BE NO. 1&2 SPF OR BETTER
- STRAPPING & CROSS BRIDGING MAXIMUM 2100mm FROM END SUPPORT & OTHER ROWS OF STRAPPING & BRIDGING.
- CEILING JOIST TABLE MAY BE APPLIED ONLY WHERE ATTIC IS NOT ACCESSIBLE BY A STAIRWAY.
- WHERE FINISHED FLOORING CONSISTS OF 19mm WOOD STRIPS, SUBFLOOR MAY BE REDUCED TO 12.7mm.

TACBOC
STANDARD DETAIL

TITLE
SPECIFICATION – BUILDING CODE STANDARDS
STRUCTURAL SPAN TABLES & NOTES

DWG. NO.

S01d

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