

CONTENT

1. Scope.....	1
2. Energy and the Environment – Canadian Wood Frame Construction	4
3. Specification	7
4. Minimum Code Requirements	13
5. Spans.....	21
6. Supported Length	23
7. Design Considerations	28
8. Other Loads	38
9. Grade Stamps	39

TABLES

Metric Units

Joists: Floor and Ceiling Joists (<i>Tables 1-2</i>).....	44
Rafters: Roof Joists and Rafters (<i>Tables 3-4</i>)	82
Beams: Beams and Lintels (<i>Tables 5-9</i>).....	110
Decks: Joists and Beams (<i>Tables 10</i>).....	294

Imperial Units

Joists: Floor and Ceiling Joists (<i>Tables 1-2</i>).....	314
Rafters: Roof Joists and Rafters (<i>Tables 3-4</i>)	352
Beams: Beams and Lintels (<i>Tables 5-9</i>).....	380
Decks: Joists and Beams (<i>Tables 10</i>).....	566

LIST OF TABLES

	METRIC	IMPERIAL
Floor Joists		
1.1 Douglas Fir-Larch.....	44	314
1.2 Hem-Fir.....	50	320
1.3 Spruce-Pine-Fir.....	56	326
1.4 Northern.....	62	332
1.5 MSR Lumber.....	68	338
Ceiling Joists		
2.....	80	350
Roof Joists		
3.1 Roof Snow Load – 1.0 kPa.....	82	352
3.2 Roof Snow Load – 1.5 kPa.....	84	354
3.3 Roof Snow Load – 2.0 kPa.....	86	356
3.4 Roof Snow Load – 2.5 kPa.....	88	358
3.5 Roof Snow Load – 3.0 kPa.....	90	360
3.6 Roof Snow Load – 3.5 kPa.....	92	362
3.7 Roof Snow Load – 4.0 kPa.....	94	364

*(Page numbers for tables in Metric measurements are in yellow.
Page numbers for tables in Imperial measurements are in blue.)*

LIST OF TABLES (cont'd)

	METRIC	IMPERIAL
Roof Rafters		
4.1 Roof Snow Load – 1.0 kPa.....	96	366
4.2 Roof Snow Load – 1.5 kPa.....	98	368
4.3 Roof Snow Load – 2.0 kPa.....	100	370
4.4 Roof Snow Load – 2.5 kPa.....	102	372
4.5 Roof Snow Load – 3.0 kPa.....	104	374
4.6 Roof Snow Load – 3.5 kPa.....	106	376
4.7 Roof Snow Load – 4.0 kPa.....	108	378
Built-Up Floor Beams		
5.1 Supporting One Floor in a House	110	380
5.2 Supporting Two Floors in a House	118	388
5.3 Supporting Three Floors in a House	126	396
Glued-Laminated Floor Beams		
6.1 Supporting One Floor in a House	136	406
6.2 Supporting Two Floors in a House	137	407
6.3 Supporting Three Floors in a House	138	408

(Page numbers for tables in Metric measurements are in yellow.
Page numbers for tables in Imperial measurements are in blue.)

LIST OF TABLES *(cont'd)*

	METRIC	IMPERIAL
Built-Up Lintels Over Large Openings and Built-up Ridge Beams		
7.1 Roof Snow Load – 1.0 kPa.....	140	410
7.2 Roof Snow Load – 1.5 kPa.....	148	418
7.3 Roof Snow Load – 2.0 kPa.....	156	426
7.4 Roof Snow Load – 2.5 kPa.....	164	434
7.5 Roof Snow Load – 3.0 kPa.....	172	442
Glued-Laminated Lintels Over Large Openings		
8.1 Roof Snow Load – 1.0 kPa.....	182	452
8.2 Roof Snow Load – 1.5 kPa.....	183	453
8.3 Roof Snow Load – 2.0 kPa.....	184	454
8.4 Roof Snow Load – 2.5 kPa.....	185	455
8.5 Roof Snow Load – 3.0 kPa.....	186	456
8.6 Suggested Bearing Lengths	188	458
Lintels With Non-Structural Sheathing		
9.1 Supporting Roof Only.....	190	460
9.6 Supporting Roof and One Storey	210	480
9.11 Supporting Roof and Two Storeys	230	500
9.16 Supporting Roof and Three Storeys.....	250	520

(Page numbers for tables in Metric measurements are in yellow. Page numbers for tables in Imperial measurements are in blue.)

LIST OF TABLES *(cont'd)*

	METRIC	IMPERIAL
9.21 End Walls Supporting Roof Snow Loads	272	542
9.26 Interior Walls.....	283	554
Deck Joists		
10.1 Live Load – 1.9 kPa.....	294	566
10.2 Snow Load – 4.0 kPa	296	568
Deck Beams		
10.3 Live Load – 1.9 kPa.....	298	570
10.4 Snow Load – 4.0 kPa	306	578

*(Page numbers for tables in Metric measurements are in yellow.
Page numbers for tables in Imperial measurements are in blue.)*