



PACIFIC LUMBER INSPECTION BUREAU

Technical Report No. 5

Maximum Allowable Stud Length Tables
for European Species and Countries in
High Wind Regions.

April 7th, 2021

Revised August 11, 2021



INTRODUCTION

Regions in the US subjected to high winds, greater than 130 MPH (3-second gusts) wind speeds may require special exterior wall design considerations to insure the adequate performance of the walls during high wind events. This technical report is intended to provide information for building contractors, designers, and building officials as to the maximum allowable exterior wall stud lengths for Austrian Spruce (*Abies alba*), Norway Spruce (*Picea abies*), Scots Pine (*Pinus sylvestris*), Douglas Fir/European Larch (*Pseudotsuga menziesii*) and Silver Fir (*Abies alba*) from the various European countries where visual grade design values are approved for the United States building market by the American Lumber Standards Committee, Inc (ALSC).. Pacific Lumber Inspection Bureau (PLIB) publishes design values for these species/country combinations in our lumber grading rules *Standard No. 17(1)*. PLIB is accredited as a lumber rules-writing and grading agency by the ALSC.

DESIGN CRITERIA

The following criteria was used to develop the allowable stud length tables in this technical report:

1. Wind Loads: Components and Cladding Methodology, See *ASCE 7-16(2)*. Chapter 30
2. Ultimate Wind Speed – (90-195 MPH)
3. Exposure Conditions – B and C
4. Wall Deflection Limits – Wall Height (H)/180
5. Wall sheathing – Minimum 3/8" wood structural panels
6. Stud size – 2 x 4, 2 x 6, and 2 x 8
7. Stud Spacing – 12", 16", or 24"
8. Select Structural, No. 1, No. 2, No. 3 and Stud
9. Design values – Extreme fiber in bending (F_b) and modulus of elasticity (E), See *Standard No. 17(1)*.

USE OF TABLES

Table 1 lists the allowable stud lengths under Wind Exposure B conditions and the assumptions in the footnotes on page 69. Table 2 lists the allowable stud lengths under Wind Exposure C conditions and the assumptions in the footnotes on page 69. For Wind Exposure D conditions, the engineer on record for the project must perform an analysis to see if the material is sufficient. The definitions for Wind Exposures B, C and D can be found in the American Wood Council publication, *Wood Frame Construction Manual (WFCM)* (3) that is referenced in the *International Residential Code (IRC)* (4). Table 3 lists the maximum allowable stud length and spacing under different gravity loading scenarios. Table 3 is a replication of *AWC WFCM Table 3.20C* and the *IRC Table R602.3(5)*. A minimum stud length should be determined based on the lowest values listed in Table 1 or Table 2 in conjunction with the values in Table 3.

Table 4 lists the base design values for different species to be used as a general comparison for species-to-species performance. An in-depth engineering analysis of different loading scenarios will always provide a better understanding of material performance as opposed to the general design value comparison.

Lumber mills in Europe often combine different species in the same unit. The grade stamps on the lumber indicate when this multiple species condition is present in a unit. When species are combined, the lowest design values for the species group must be used. Similarly, when multiple species are utilized, the shortest stud length listed in the table must also be used.

REFERENCES

1. Pacific Lumber Inspection Bureau. 2018. Standard No. 17 Grading Rules for West Coast Lumber. 1010 S. 336th St. Suite 210, Federal Way, WA 98003.
2. American Society of Civil Engineers. 2016. Minimum Design Loads and Associated Criteria for Buildings and Other Structures. 1801 Alexander Bell Drive, Reston, VA, 20191
3. American Wood Council. 2018. Wood Frame Construction Manual. 222 Catotin Circle SE, Suite 201, Leesburg, VA 20175.
4. International Code Council, Inc. 2018. International Residential Code. 500 New Jersey Ave. NW, Washington, DC 20001.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
24		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No. 3	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 1	20 - 0 ⁺	12 - 3	18 - 1	20 - 0 ⁺
		Stud	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺	12 - 3	18 - 8	20 - 0 ⁺
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
24		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No. 3	12 - 11	19 - 8	20 - 0 ⁺	12 - 5	18 - 6	20 - 0 ⁺	12 - 0	17 - 6	20 - 0 ⁺	11 - 7	16 - 8	20 - 0 ⁺
		Stud	12 - 11	19 - 11	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 0	18 - 2	20 - 0 ⁺	11 - 7	17 - 3	20 - 0 ⁺

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No. 3	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 6	20 - 0 ⁺	12 - 2	17 - 10	20 - 0 ⁺
		Stud	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 6	20 - 0 ⁺	12 - 2	18 - 6	20 - 0 ⁺
24		SS	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺
		No.1	12 - 9	19 - 9	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No.2	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No. 3	11 - 11	17 - 2	20 - 0 ⁺	11 - 6	16 - 5	20 - 0 ⁺	11 - 0	15 - 8	19 - 4	10 - 1	14 - 4	17 - 9
		Stud	11 - 11	17 - 9	20 - 0 ⁺	11 - 6	16 - 11	20 - 0 ⁺	11 - 1	16 - 2	19 - 4	10 - 2	14 - 10	17 - 9
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 2	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 11	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺
		No. 3	12 - 11	19 - 8	20 - 0 ⁺	12 - 6	18 - 9	20 - 0 ⁺	12 - 2	17 - 11	20 - 0 ⁺	11 - 6	16 - 5	20 - 0 ⁺
		Stud	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 7	20 - 0 ⁺	11 - 6	17 - 1	20 - 0 ⁺
24		SS	12 - 9	19 - 9	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No. 3	11 - 2	15 - 10	19 - 7	10 - 8	15 - 1	18 - 8	10 - 2	14 - 5	17 - 10	9 - 4	13 - 3	16 - 4
		Stud	11 - 2	16 - 5	19 - 7	10 - 9	15 - 8	18 - 8	10 - 3	14 - 11	17 - 10	9 - 5	13 - 9	16 - 4

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 10	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No.1	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 5	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No.2	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 3	18 - 11	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No. 3	12 - 9	19 - 3	20 - 0 ⁺	12 - 2	17 - 11	20 - 0 ⁺	11 - 8	16 - 8	20 - 0 ⁺	11 - 0	15 - 8	19 - 4
		Stud	12 - 9	19 - 9	20 - 0 ⁺	12 - 2	18 - 6	20 - 0 ⁺	11 - 8	17 - 3	20 - 0 ⁺	11 - 1	16 - 2	19 - 4
16		SS	12 - 8	19 - 8	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.1	12 - 5	19 - 3	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No.2	12 - 2	18 - 10	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺	10 - 7	16 - 5	20 - 0 ⁺
		No. 3	11 - 7	16 - 6	20 - 0 ⁺	10 - 9	15 - 4	18 - 11	10 - 1	14 - 4	17 - 8	9 - 5	13 - 5	16 - 7
		Stud	11 - 7	17 - 1	20 - 0 ⁺	10 - 10	15 - 10	18 - 11	10 - 2	14 - 9	17 - 8	9 - 6	13 - 10	16 - 7
24		SS	11 - 0	17 - 1	20 - 0 ⁺	10 - 6	16 - 3	20 - 0 ⁺	10 - 1	15 - 6	20 - 0 ⁺	9 - 8	14 - 11	19 - 4
		No.1	10 - 9	16 - 8	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	19 - 9	9 - 5	14 - 7	18 - 10
		No.2	10 - 7	16 - 4	20 - 0 ⁺	10 - 1	15 - 7	20 - 0 ⁺	9 - 7	14 - 10	19 - 3	9 - 3	14 - 3	18 - 1
		No. 3	9 - 4	13 - 3	16 - 5	8 - 8	12 - 4	15 - 3	8 - 1	11 - 6	14 - 3	-	10 - 9	13 - 4
		Stud	9 - 5	13 - 9	16 - 5	8 - 9	12 - 9	15 - 3	8 - 2	11 - 11	14 - 3	-	11 - 2	13 - 4
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 5	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No.1	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺	11 - 5	17 - 9	20 - 0 ⁺
		No.2	12 - 9	19 - 9	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 8	18 - 0	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No. 3	12 - 1	17 - 9	20 - 0 ⁺	11 - 6	16 - 6	20 - 0 ⁺	10 - 10	15 - 4	19 - 0	10 - 2	14 - 5	17 - 10
		Stud	12 - 1	18 - 5	20 - 0 ⁺	11 - 6	17 - 1	20 - 0 ⁺	10 - 11	15 - 11	19 - 0	10 - 3	14 - 11	17 - 10
16		SS	12 - 5	19 - 3	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No.1	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.2	11 - 7	17 - 11	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 1	15 - 7	20 - 0 ⁺
		No. 3	10 - 8	15 - 2	18 - 9	9 - 11	14 - 1	17 - 5	9 - 3	13 - 2	16 - 3	8 - 8	12 - 4	15 - 3
		Stud	10 - 10	15 - 9	18 - 9	10 - 0	14 - 7	17 - 5	9 - 4	13 - 8	16 - 3	8 - 9	12 - 9	15 - 3
24		SS	10 - 9	16 - 8	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	19 - 9	9 - 5	14 - 7	18 - 11
		No.1	10 - 4	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 5	9 - 0	13 - 11	17 - 3
		No.2	10 - 0	15 - 6	20 - 0 ⁺	9 - 7	14 - 10	19 - 1	9 - 2	14 - 2	17 - 10	8 - 9	13 - 6	16 - 8
		No. 3	8 - 7	12 - 3	15 - 1	8 - 0	11 - 4	14 - 0	-	10 - 7	13 - 1	-	9 - 11	12 - 3
		Stud	8 - 8	12 - 8	15 - 1	8 - 1	11 - 9	14 - 0	-	11 - 0	13 - 1	-	10 - 3	12 - 3

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	11 - 9	18 - 3	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.1	11 - 6	17 - 10	20 - 0†	10 - 11	16 - 10	20 - 0†
		No.2	11 - 3	17 - 5	20 - 0†	10 - 8	16 - 6	20 - 0†
		No. 3	10 - 4	14 - 8	18 - 2	9 - 6	13 - 6	16 - 8
		Stud	10 - 5	15 - 2	18 - 2	9 - 7	13 - 11	16 - 8
16		SS	10 - 8	16 - 6	20 - 0†	10 - 1	15 - 7	20 - 0†
		No.1	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 10
		No.2	10 - 2	15 - 9	20 - 0†	9 - 8	14 - 11	19 - 5
		No. 3	8 - 11	12 - 7	15 - 7	8 - 2	11 - 7	14 - 4
		Stud	8 - 11	13 - 0	15 - 7	8 - 2	11 - 11	14 - 4
24		SS	9 - 3	14 - 4	18 - 7	8 - 9	13 - 6	17 - 7
		No.1	9 - 1	14 - 0	17 - 9	8 - 7	13 - 2	16 - 3
		No.2	8 - 10	13 - 8	17 - 0	8 - 5	12 - 7	15 - 7
		No. 3	-	10 - 2	12 - 6	-	9 - 4	11 - 6
		Stud	-	10 - 6	12 - 6	-	9 - 7	11 - 6
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	11 - 6	17 - 10	20 - 0†	10 - 11	16 - 10	20 - 0†
		No.1	11 - 0	17 - 0	20 - 0†	10 - 5	16 - 1	20 - 0†
		No.2	10 - 9	16 - 7	20 - 0†	10 - 2	15 - 8	20 - 0†
		No. 3	9 - 6	13 - 6	16 - 9	8 - 9	12 - 5	15 - 4
		Stud	9 - 8	14 - 0	16 - 9	8 - 10	12 - 10	15 - 4
16		SS	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 10
		No.1	9 - 11	15 - 5	20 - 0†	9 - 5	14 - 7	18 - 6
		No.2	9 - 8	15 - 0	19 - 6	9 - 2	14 - 2	17 - 11
		No. 3	8 - 2	11 - 7	14 - 4	-	10 - 8	13 - 2
		Stud	8 - 3	12 - 0	14 - 4	-	11 - 0	13 - 2
24		SS	9 - 1	14 - 0	18 - 3	8 - 7	13 - 3	17 - 3
		No.1	8 - 8	13 - 2	16 - 3	8 - 2	12 - 1	14 - 11
		No.2	8 - 5	12 - 9	15 - 9	8 - 0	11 - 8	14 - 5
		No. 3	-	9 - 4	11 - 7	-	8 - 7	10 - 7
		Stud	-	9 - 8	11 - 7	-	8 - 11	10 - 7

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	19 - 9	20 - 0 ⁺	13 - 2	18 - 9	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 1	19 - 0	20 - 0 ⁺
24		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺
		No. 3	12 - 6	17 - 10	20 - 0 ⁺	11 - 10	16 - 10	20 - 0 ⁺	11 - 2	15 - 11	19 - 8	10 - 7	15 - 1	18 - 8
		Stud	12 - 5	18 - 1	20 - 0 ⁺	11 - 8	17 - 0	20 - 0 ⁺	11 - 1	16 - 1	19 - 8	10 - 6	15 - 4	18 - 8
12	Norway Spruce – Germany, NE France, & Switzerland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
24		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺
		No. 3	12 - 11	19 - 1	20 - 0 ⁺	12 - 5	18 - 0	20 - 0 ⁺	12 - 0	17 - 0	20 - 0 ⁺	11 - 4	16 - 2	20 - 0 ⁺
		Stud	12 - 11	19 - 6	20 - 0 ⁺	12 - 5	18 - 4	20 - 0 ⁺	11 - 11	17 - 5	20 - 0 ⁺	11 - 4	16 - 6	20 - 0 ⁺

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	19 - 10	20 - 0 ⁺	13 - 4	19 - 0	20 - 0 ⁺	12 - 3	17 - 5	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 2	19 - 3	20 - 0 ⁺	12 - 1	17 - 8	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No. 3	12 - 7	17 - 10	20 - 0 ⁺	12 - 0	17 - 0	20 - 0 ⁺	11 - 5	16 - 3	20 - 0 ⁺	10 - 6	14 - 11	18 - 5
		Stud	12 - 5	18 - 1	20 - 0 ⁺	11 - 10	17 - 3	20 - 0 ⁺	11 - 4	16 - 6	20 - 0 ⁺	10 - 4	15 - 1	18 - 5
24		SS	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 7	17 - 10	20 - 0 ⁺	11 - 2	17 - 4	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺	10 - 3	15 - 9	19 - 6
		No. 3	10 - 1	14 - 4	17 - 9	9 - 8	13 - 8	16 - 11	9 - 3	13 - 1	16 - 2	8 - 5	12 - 0	14 - 10
		Stud	10 - 0	14 - 7	17 - 9	9 - 6	13 - 11	16 - 11	9 - 1	13 - 3	16 - 2	8 - 4	13 - 1	14 - 10
12	Norway Spruce – Germany, NE France, & Switzerland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	18 - 7	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 0	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No. 3	12 - 11	19 - 1	20 - 0 ⁺	12 - 6	18 - 2	20 - 0 ⁺	12 - 2	17 - 5	20 - 0 ⁺	11 - 3	15 - 11	19 - 9
		Stud	12 - 11	19 - 6	20 - 0 ⁺	12 - 6	18 - 7	20 - 0 ⁺	12 - 2	17 - 9	20 - 0 ⁺	11 - 2	16 - 4	19 - 9
24		SS	12 - 9	19 - 9	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 7	17 - 10	20 - 0 ⁺	11 - 2	17 - 4	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺
		No. 3	10 - 10	15 - 4	19 - 0	10 - 4	14 - 8	18 - 1	9 - 10	14 - 0	17 - 3	9 - 0	12 - 10	15 - 10
		Stud	10 - 9	15 - 8	19 - 0	10 - 3	14 - 11	18 - 1	9 - 10	14 - 3	17 - 3	9 - 0	13 - 1	15 - 10

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	13 - 5	20 - 0†	20 - 0†	12 - 10	19 - 10	20 - 0†	12 - 3	18 - 11	20 - 0†	11 - 9	18 - 2	20 - 0†
		No.1	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 6	20 - 0†	11 - 5	17 - 9	20 - 0†
		No.2	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 10	20 - 0†
		No. 3	11 - 4	16 - 1	19 - 11	10 - 6	14 - 11	18 - 6	9 - 10	13 - 11	17 - 3	9 - 2	13 - 1	16 - 2
		Stud	11 - 2	16 - 4	19 - 11	10 - 5	15 - 2	18 - 6	9 - 8	14 - 1	17 - 3	9 - 1	13 - 3	16 - 2
16		SS	12 - 2	18 - 10	20 - 0†	11 - 7	17 - 11	20 - 0†	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 5	20 - 0†
		No.1	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†
		No.2	11 - 3	17 - 5	20 - 0†	10 - 9	16 - 7	20 - 0†	10 - 3	15 - 8	19 - 5	9 - 10	14 - 9	18 - 2
		No. 3	9 - 8	13 - 9	17 - 0	9 - 0	12 - 10	15 - 10	8 - 5	11 - 11	14 - 9	7 - 11	11 - 2	13 - 10
		Stud	9 - 7	14 - 0	17 - 0	8 - 11	13 - 0	15 - 10	8 - 4	12 - 1	14 - 9	7 - 9	11 - 4	13 - 10
24		SS	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 7	14 - 10	19 - 4	9 - 3	14 - 3	18 - 6
		No.1	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 2	9 - 0	13 - 11	17 - 3
		No.2	9 - 9	14 - 7	18 - 0	9 - 4	13 - 6	16 - 9	8 - 11	12 - 8	15 - 7	8 - 4	11 - 10	14 - 8
		No. 3	7 - 10	11 - 1	13 - 8	-	10 - 4	12 - 9	-	9 - 7	11 - 11	-	9 - 0	11 - 2
		Stud	-	11 - 3	13 - 8	-	10 - 5	12 - 9	-	9 - 9	11 - 11	-	9 - 2	11 - 2
12	Norway Spruce – Germany, NE France, & Switzerland	SS	13 - 9	20 - 0†	20 - 0†	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 5	20 - 0†	12 - 0	18 - 7	20 - 0†
		No.1	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 6	20 - 0†	11 - 5	17 - 9	20 - 0†
		No.2	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 10	20 - 0†
		No. 3	12 - 1	17 - 2	20 - 0†	11 - 3	16 - 0	19 - 9	10 - 6	14 - 11	18 - 5	9 - 10	14 - 0	17 - 3
		Stud	12 - 1	17 - 7	20 - 0†	11 - 2	16 - 4	19 - 9	10 - 5	15 - 3	18 - 5	9 - 9	14 - 3	17 - 3
16		SS	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 10	20 - 0†
		No.1	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†
		No.2	11 - 3	17 - 5	20 - 0†	10 - 9	16 - 7	20 - 0†	10 - 3	15 - 10	20 - 0†	9 - 10	15 - 2	19 - 8
		No. 3	10 - 4	14 - 9	18 - 3	9 - 8	13 - 8	16 - 11	9 - 0	12 - 9	15 - 9	8 - 5	12 - 0	14 - 9
		Stud	10 - 4	15 - 1	18 - 3	9 - 7	14 - 0	16 - 11	8 - 11	13 - 1	15 - 9	8 - 5	12 - 3	14 - 9
24		SS	10 - 9	16 - 8	20 - 0†	10 - 3	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 7	18 - 11
		No.1	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 5	9 - 5	14 - 6	18 - 2	9 - 0	13 - 9	17 - 0
		No.2	9 - 9	15 - 1	19 - 6	9 - 4	14 - 5	18 - 2	8 - 11	13 - 8	16 - 11	8 - 6	12 - 10	15 - 10
		No. 3	8 - 4	11 - 10	14 - 8	7 - 9	11 - 0	13 - 7	-	10 - 3	12 - 8	-	9 - 8	11 - 11
		Stud	8 - 4	12 - 1	14 - 8	-	11 - 3	13 - 7	-	10 - 6	12 - 8	-	9 - 10	11 - 11

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	11 - 3	17 - 5	20 - 0†	10 - 8	16 - 6	20 - 0†
		No.1	11 - 0	17 - 0	20 - 0†	10 - 5	16 - 1	20 - 0†
		No.2	10 - 5	16 - 2	20 - 0	9 - 10	14 - 10	18 - 4
		No. 3	8 - 8	12 - 3	15 - 2	7 - 11	11 - 3	13 - 11
		Stud	8 - 7	12 - 5	15 - 2	7 - 10	11 - 5	13 - 11
16		SS	10 - 2	15 - 9	20 - 0†	9 - 8	14 - 11	19 - 5
		No.1	9 - 11	15 - 5	20 - 0†	9 - 5	14 - 7	18 - 6
		No.2	9 - 5	13 - 10	17 - 1	8 - 11	12 - 8	15 - 8
		No. 3	-	10 - 6	13 - 0	-	9 - 8	11 - 11
		Stud	-	10 - 8	13 - 0	-	9 - 10	11 - 11
24		SS	8 - 10	13 - 8	17 - 10	8 - 5	12 - 11	16 - 10
		No.1	8 - 8	13 - 2	16 - 3	8 - 2	12 - 1	14 - 11
		No.2	7 - 10	11 - 2	13 - 9	-	10 - 3	12 - 8
		No. 3	-	8 - 6	10 - 6	-	7 - 9	9 - 7
		Stud	-	8 - 7	10 - 6	-	7 - 11	9 - 7
12	Norway Spruce – Germany, NE France, & Switzerland	SS	11 - 6	17 - 10	20 - 0†	10 - 11	16 - 10	20 - 0†
		No.1	11 - 0	17 - 0	20 - 0†	10 - 5	16 - 1	20 - 0†
		No.2	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 10
		No. 3	9 - 3	13 - 2	16 - 3	8 - 6	12 - 1	14 - 11
		Stud	9 - 2	13 - 5	16 - 3	8 - 5	12 - 4	14 - 11
16		SS	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 10
		No.1	9 - 11	15 - 5	19 - 10	9 - 5	14 - 7	18 - 3
		No.2	9 - 5	14 - 7	18 - 6	8 - 11	13 - 9	17 - 0
		No. 3	7 - 11	11 - 3	13 - 11	-	10 - 4	12 - 9
		Stud	7 - 11	11 - 6	13 - 11	-	10 - 7	12 - 9
24		SS	9 - 1	14 - 0	18 - 3	8 - 7	13 - 3	17 - 3
		No.1	8 - 8	12 - 11	16 - 0	8 - 2	11 - 10	14 - 8
		No.2	8 - 2	12 - 1	14 - 11	7 - 9	11 - 1	13 - 8
		No. 3	-	9 - 1	11 - 2	-	8 - 4	10 - 3
		Stud	-	9 - 3	11 - 2	-	8 - 6	10 - 3

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.2	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No. 3	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		Stud	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
16		SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.2	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No. 3	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 9	20 - 0+	20 - 0+
		Stud	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 9	20 - 0+	20 - 0+
24		SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 9	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+	13 - 4	20 - 0+	20 - 0+	12 - 11	20 - 0	20 - 0+
		No.2	13 - 8	20 - 0+	20 - 0+	13 - 2	20 - 0+	20 - 0+	12 - 8	19 - 8	20 - 0+	12 - 3	19 - 0	20 - 0+
		No. 3	13 - 3	20 - 0+	20 - 0+	12 - 10	19 - 1	20 - 0+	12 - 4	18 - 1	20 - 0+	11 - 11	17 - 2	20 - 0+
		Stud	13 - 3	20 - 0+	20 - 0+	12 - 10	19 - 3	20 - 0+	12 - 4	18 - 2	20 - 0+	11 - 10	17 - 3	20 - 0+
12	Norway Spruce - Romania & Ukraine	SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.2	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No. 3	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		Stud	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
16		SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.2	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 9	20 - 0+	20 - 0+
		No. 3	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+	13 - 4	20 - 0+	20 - 0+
		Stud	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+	13 - 4	20 - 0+	20 - 0+
24		SS	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+	13 - 4	20 - 0+	20 - 0+	12 - 11	20 - 0	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	13 - 6	20 - 0+	20 - 0+	13 - 0	20 - 0+	20 - 0+	12 - 7	19 - 6	20 - 0+
		No.2	13 - 3	20 - 0+	20 - 0+	12 - 10	19 - 10	20 - 0+	12 - 4	19 - 1	20 - 0+	11 - 11	18 - 6	20 - 0+
		No. 3	12 - 11	19 - 1	20 - 0+	12 - 5	18 - 0	20 - 0+	12 - 0	17 - 0	20 - 0+	11 - 4	16 - 2	20 - 0+
		Stud	12 - 11	19 - 6	20 - 0+	12 - 5	18 - 4	20 - 0+	11 - 11	17 - 5	20 - 0+	11 - 4	16 - 6	20 - 0+

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	19 - 9	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	19 - 11	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 11	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺
		No. 3	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	19 - 4	20 - 0 ⁺	12 - 6	18 - 5	20 - 0 ⁺	11 - 10	16 - 11	20 - 0 ⁺
		Stud	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	19 - 5	20 - 0 ⁺	12 - 6	18 - 7	20 - 0 ⁺	11 - 8	17 - 1	20 - 0 ⁺
24		SS	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.2	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No. 3	11 - 6	16 - 4	20 - 0 ⁺	10 - 11	15 - 6	19 - 3	10 - 5	14 - 10	18 - 4	9 - 7	13 - 7	16 - 10
		Stud	11 - 3	16 - 5	20 - 0 ⁺	10 - 9	15 - 8	19 - 3	10 - 3	14 - 11	18 - 4	9 - 5	13 - 9	16 - 10
12	Norway Spruce – Romania & Ukraine	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	18 - 7	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 0	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No. 3	12 - 11	19 - 1	20 - 0 ⁺	12 - 6	18 - 2	20 - 0 ⁺	12 - 2	17 - 5	20 - 0 ⁺	11 - 3	15 - 11	19 - 9
		Stud	12 - 11	19 - 6	20 - 0 ⁺	12 - 6	18 - 7	20 - 0 ⁺	12 - 2	17 - 9	20 - 0 ⁺	11 - 2	16 - 4	19 - 9
24		SS	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 7	17 - 10	20 - 0 ⁺	11 - 2	17 - 4	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺
		No. 3	10 - 10	15 - 4	19 - 0	10 - 4	14 - 8	18 - 1	9 - 10	14 - 0	17 - 3	9 - 0	12 - 10	15 - 10
		Stud	10 - 9	15 - 8	19 - 0	10 - 3	14 - 11	18 - 1	9 - 10	14 - 3	17 - 3	9 - 0	13 - 1	15 - 10

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.1	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 3	18 - 11	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No.2	12 - 9	19 - 9	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 8	18 - 0	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No. 3	12 - 5	18 - 3	20 - 0 ⁺	11 - 10	16 - 11	20 - 0 ⁺	11 - 2	15 - 10	19 - 7	10 - 5	14 - 10	18 - 4
		Stud	12 - 5	18 - 5	20 - 0 ⁺	11 - 8	17 - 1	20 - 0 ⁺	10 - 11	15 - 10	20 - 0 ⁺	10 - 3	14 - 11	18 - 4
16		SS	12 - 11	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺	10 - 7	16 - 5	20 - 0 ⁺
		No.2	11 - 7	17 - 11	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 1	15 - 7	20 - 0 ⁺
		No. 3	11 - 0	15 - 8	19 - 4	10 - 3	14 - 6	18 - 0	9 - 7	13 - 7	16 - 9	8 - 11	12 - 8	15 - 8
		Stud	10 - 10	15 - 9	19 - 4	10 - 0	14 - 7	18 - 0	9 - 4	13 - 7	19 - 5	8 - 9	12 - 9	15 - 8
24		SS	11 - 3	17 - 5	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 10	15 - 2	19 - 9
		No.1	10 - 7	16 - 4	20 - 0 ⁺	10 - 1	15 - 7	20 - 0 ⁺	9 - 7	14 - 10	19 - 4	9 - 3	14 - 3	18 - 6
		No.2	10 - 0	15 - 6	20 - 0 ⁺	9 - 7	14 - 10	19 - 1	9 - 2	14 - 2	17 - 10	8 - 9	13 - 6	16 - 8
		No. 3	8 - 10	12 - 7	15 - 7	8 - 3	11 - 8	14 - 5	-	10 - 11	13 - 6	-	10 - 3	12 - 8
		Stud	8 - 8	12 - 8	15 - 7	8 - 1	11 - 9	14 - 5	-	10 - 11	15 - 7	-	10 - 3	12 - 8
12	Norway Spruce – Romania & Ukraine	SS	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 3	18 - 11	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No.1	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺	11 - 5	17 - 9	20 - 0 ⁺
		No.2	12 - 5	19 - 3	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No. 3	12 - 1	17 - 2	20 - 0 ⁺	11 - 3	16 - 0	19 - 9	10 - 6	14 - 11	18 - 5	9 - 10	14 - 0	17 - 3
		Stud	12 - 1	17 - 7	20 - 0 ⁺	11 - 2	16 - 4	19 - 9	10 - 5	14 - 11	18 - 5	9 - 9	14 - 3	17 - 3
16		SS	12 - 2	18 - 10	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺	10 - 7	16 - 5	20 - 0 ⁺
		No.1	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.2	11 - 3	17 - 5	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 10	15 - 2	19 - 8
		No. 3	10 - 4	14 - 9	18 - 3	9 - 8	13 - 8	16 - 11	9 - 0	12 - 9	15 - 9	8 - 5	12 - 0	14 - 9
		Stud	10 - 4	15 - 1	18 - 3	9 - 7	14 - 0	16 - 11	8 - 11	12 - 9	15 - 9	8 - 5	12 - 3	14 - 9
24		SS	10 - 7	16 - 4	20 - 0 ⁺	10 - 1	15 - 7	20 - 0 ⁺	9 - 7	14 - 10	19 - 4	9 - 3	14 - 3	18 - 6
		No.1	10 - 4	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 5	9 - 0	13 - 11	17 - 3
		No.2	9 - 9	15 - 1	19 - 6	9 - 4	14 - 5	18 - 2	8 - 11	13 - 9	17 - 3	8 - 6	13 - 1	16 - 2
		No. 3	8 - 4	11 - 10	14 - 8	7 - 9	11 - 0	13 - 7	-	10 - 3	12 - 8	-	9 - 8	11 - 11
		Stud	8 - 4	12 - 1	14 - 8	-	11 - 3	13 - 7	-	10 - 3	12 - 8	-	9 - 10	11 - 11

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No.1	11 - 3	17 - 5	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No.2	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No. 3	9 - 10	13 - 11	17 - 3	9 - 0	12 - 9	15 - 10
		Stud	9 - 8	14 - 0	17 - 3	8 - 10	12 - 10	15 - 10
16		SS	10 - 10	16 - 10	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺
		No.1	10 - 2	15 - 9	20 - 0 ⁺	9 - 8	14 - 11	19 - 5
		No.2	9 - 8	15 - 0	19 - 6	9 - 2	14 - 2	17 - 11
		No. 3	8 - 5	11 - 11	14 - 9	-	11 - 0	13 - 7
		Stud	8 - 3	12 - 0	14 - 9	-	11 - 0	13 - 7
24		SS	9 - 5	14 - 7	19 - 0	8 - 11	13 - 10	17 - 11
		No.1	8 - 10	13 - 8	17 - 9	8 - 5	12 - 11	16 - 3
		No.2	8 - 5	12 - 9	15 - 9	8 - 0	11 - 8	14 - 5
		No. 3	-	9 - 7	11 - 11	-	8 - 10	10 - 11
		Stud	-	9 - 8	11 - 11	-	8 - 11	10 - 11
12	Norway Spruce – Romania & Ukraine	SS	11 - 3	17 - 5	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No.1	11 - 0	17 - 0	20 - 0 ⁺	10 - 5	16 - 1	20 - 0 ⁺
		No.2	10 - 5	16 - 2	21 - 0	9 - 10	15 - 3	19 - 10
		No. 3	9 - 3	13 - 2	16 - 3	8 - 6	12 - 1	14 - 11
		Stud	9 - 2	13 - 5	16 - 3	8 - 5	12 - 4	14 - 11
16		SS	10 - 2	15 - 9	20 - 0 ⁺	9 - 8	14 - 11	19 - 5
		No.1	9 - 11	15 - 5	20 - 0 ⁺	9 - 5	14 - 7	18 - 6
		No.2	9 - 5	14 - 7	18 - 6	8 - 11	13 - 10	17 - 4
		No. 3	7 - 11	11 - 3	13 - 11	-	10 - 4	12 - 9
		Stud	7 - 11	11 - 6	13 - 11	-	10 - 7	12 - 9
24		SS	8 - 10	13 - 8	17 - 10	8 - 5	12 - 11	16 - 10
		No.1	8 - 8	13 - 2	16 - 3	8 - 2	12 - 1	14 - 11
		No.2	8 - 2	12 - 1	15 - 2	7 - 9	11 - 3	13 - 11
		No. 3	-	9 - 1	11 - 2	-	8 - 4	10 - 3
		Stud	-	9 - 3	11 - 2	-	8 - 6	10 - 3

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 9	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 4	19 - 5	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†
24		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 8	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		No.2	13 - 3	20 - 0†	20 - 0†	12 - 10	19 - 10	20 - 0†	12 - 4	19 - 1	20 - 0†	11 - 11	18 - 6	20 - 0†
		No. 3	13 - 0	18 - 5	20 - 0†	12 - 3	17 - 5	20 - 0†	11 - 7	16 - 6	20 - 0†	11 - 0	15 - 8	19 - 4
		Stud	13 - 0	19 - 0	20 - 0†	12 - 4	17 - 11	20 - 0†	11 - 8	17 - 0	20 - 0†	11 - 1	16 - 1	19 - 4
12	Scots Pine – Austria, The Czech Republic, Romania, & Ukraine	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
24		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 11	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 8	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		No. 3	13 - 8	19 - 8	20 - 0†	13 - 0	18 - 6	20 - 0†	12 - 4	17 - 6	20 - 0†	11 - 9	16 - 8	20 - 0†
		Stud	13 - 8	19 - 11	20 - 0†	12 - 11	18 - 10	20 - 0†	12 - 2	17 - 9	20 - 0†	11 - 7	16 - 10	20 - 0†

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	19 - 8	20 - 0 ⁺	12 - 8	18 - 0	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	12 - 9	18 - 7	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No. 3	13 - 0	18 - 6	20 - 0 ⁺	12 - 5	17 - 7	20 - 0 ⁺	11 - 10	16 - 10	20 - 0 ⁺	10 - 10	15 - 5	19 - 1
		Stud	13 - 1	19 - 1	20 - 0 ⁺	12 - 5	18 - 2	20 - 0 ⁺	11 - 11	17 - 4	20 - 0 ⁺	10 - 11	15 - 11	19 - 1
24		SS	12 - 9	19 - 9	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 7	17 - 10	20 - 0 ⁺	11 - 2	17 - 4	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺
		No. 3	10 - 6	14 - 10	18 - 5	10 - 0	14 - 2	17 - 6	9 - 6	13 - 6	16 - 9	8 - 9	12 - 5	15 - 4
		Stud	10 - 6	15 - 4	18 - 5	10 - 0	14 - 7	17 - 6	9 - 7	13 - 11	16 - 9	8 - 9	12 - 10	15 - 4
12	Scots Pine - Austria, The Czech Republic, Romania, & Ukraine	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	19 - 2	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 4	19 - 6	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No. 3	13 - 8	19 - 8	20 - 0 ⁺	13 - 2	18 - 9	20 - 0 ⁺	12 - 7	17 - 11	20 - 0 ⁺	11 - 7	16 - 5	20 - 0 ⁺
		Stud	13 - 8	20 - 0	20 - 0 ⁺	13 - 1	19 - 0	20 - 0 ⁺	12 - 6	18 - 2	20 - 0 ⁺	11 - 5	16 - 8	20 - 0 ⁺
24		SS	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺
		No.1	12 - 9	19 - 9	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No.2	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No. 3	11 - 2	15 - 10	19 - 7	10 - 8	15 - 1	18 - 8	10 - 2	14 - 5	17 - 10	9 - 4	13 - 3	16 - 4
		Stud	11 - 0	16 - 1	19 - 7	10 - 6	15 - 4	18 - 8	10 - 0	14 - 7	17 - 10	9 - 2	13 - 5	16 - 4

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	13 - 9	20 - 0†	20 - 0†	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 5	20 - 0†	12 - 0	18 - 7	20 - 0†
		No.1	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 6	20 - 0†	11 - 5	17 - 9	20 - 0†
		No.2	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 10	20 - 0†
		No. 3	11 - 9	16 - 8	20 - 0†	10 - 11	15 - 5	19 - 1	10 - 2	14 - 5	17 - 10	9 - 6	13 - 6	16 - 8
		Stud	11 - 9	17 - 2	20 - 0†	10 - 11	15 - 11	19 - 1	10 - 2	14 - 10	17 - 10	9 - 7	13 - 11	16 - 8
16		SS	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 10	20 - 0†
		No.1	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†
		No.2	11 - 3	17 - 5	20 - 0†	10 - 9	16 - 7	20 - 0†	10 - 3	15 - 10	20 - 0†	9 - 10	15 - 2	19 - 0
		No. 3	10 - 1	14 - 3	17 - 8	9 - 4	13 - 3	16 - 5	8 - 8	12 - 4	15 - 3	8 - 2	11 - 7	14 - 4
		Stud	10 - 1	14 - 8	17 - 8	9 - 4	13 - 8	16 - 5	8 - 9	12 - 9	15 - 3	8 - 2	11 - 11	14 - 4
24		SS	10 - 9	16 - 8	20 - 0†	10 - 3	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 7	18 - 11
		No.1	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 5	9 - 5	14 - 6	18 - 2	9 - 0	13 - 9	17 - 0
		No.2	9 - 9	15 - 1	18 - 9	9 - 4	14 - 1	17 - 5	8 - 11	13 - 2	16 - 3	8 - 6	12 - 4	15 - 3
		No. 3	8 - 1	11 - 6	14 - 2	-	10 - 8	13 - 2	-	9 - 11	12 - 4	-	9 - 4	11 - 6
		Stud	8 - 1	11 - 10	14 - 2	-	11 - 0	13 - 2	-	10 - 3	12 - 4	-	9 - 7	11 - 6
12	Scots Pine – Austria, The Czech Republic, Romania, & Ukraine	SS	14 - 0††	20 - 0†	20 - 0†	13 - 5	20 - 0†	20 - 0†	12 - 9	19 - 10	20 - 0†	12 - 3	19 - 0	20 - 0†
		No.1	13 - 9	20 - 0†	20 - 0†	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 5	20 - 0†	12 - 0	18 - 7	20 - 0†
		No.2	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 6	20 - 0†	11 - 5	17 - 9	20 - 0†
		No. 3	12 - 6	17 - 9	20 - 0†	11 - 7	16 - 6	20 - 0†	10 - 10	15 - 4	19 - 0	10 - 2	14 - 5	17 - 10
		Stud	12 - 4	18 - 0	20 - 0†	11 - 5	16 - 8	20 - 0†	10 - 8	15 - 7	19 - 0	10 - 0	14 - 7	17 - 10
16		SS	12 - 8	19 - 8	20 - 0†	12 - 1	18 - 9	20 - 0†	11 - 7	17 - 11	20 - 0†	11 - 1	17 - 2	20 - 0†
		No.1	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 10	20 - 0†
		No.2	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†
		No. 3	10 - 8	15 - 2	18 - 9	9 - 11	14 - 1	17 - 5	9 - 3	13 - 2	16 - 3	8 - 8	12 - 4	15 - 3
		Stud	10 - 7	15 - 5	18 - 9	9 - 10	14 - 4	17 - 5	9 - 2	13 - 4	16 - 3	8 - 7	12 - 6	15 - 3
24		SS	11 - 0	17 - 1	20 - 0†	10 - 6	16 - 3	20 - 0†	10 - 1	15 - 6	20 - 0†	9 - 8	14 - 11	19 - 4
		No.1	10 - 9	16 - 8	20 - 0†	10 - 3	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 0	9 - 5	14 - 5	17 - 10
		No.2	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	18 - 9	9 - 5	14 - 2	17 - 6	9 - 0	13 - 3	16 - 5
		No. 3	8 - 7	12 - 3	15 - 1	8 - 0	11 - 4	14 - 0	-	10 - 7	13 - 1	-	9 - 11	12 - 3
		Stud	8 - 6	12 - 5	15 - 1	7 - 11	11 - 6	14 - 0	-	10 - 9	13 - 1	-	10 - 1	12 - 3

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	11 - 6	17 - 10	20 - 0†	10 - 11	16 - 10	20 - 0†
		No.1	11 - 0	17 - 0	20 - 0†	10 - 5	16 - 1	20 - 0†
		No.2	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 1
		No. 3	8 - 11	12 - 9	15 - 9	8 - 3	11 - 8	14 - 5
		Stud	9 - 0	13 - 1	15 - 9	8 - 3	12 - 0	14 - 5
16		SS	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 10
		No.1	9 - 11	15 - 5	19 - 10	9 - 5	14 - 7	18 - 3
		No.2	9 - 5	14 - 5	17 - 10	8 - 11	13 - 3	16 - 4
		No. 3	-	10 - 11	13 - 6	-	10 - 0	12 - 4
		Stud	-	11 - 3	13 - 6	-	10 - 4	12 - 4
24		SS	9 - 1	14 - 0	18 - 3	8 - 7	13 - 3	17 - 3
		No.1	8 - 8	12 - 11	16 - 0	8 - 2	11 - 10	14 - 8
		No.2	8 - 2	11 - 7	14 - 4	-	10 - 8	13 - 2
		No. 3	-	8 - 9	10 - 10	-	8 - 1	9 - 11
		Stud	-	9 - 0	10 - 10	-	8 - 4	9 - 11
12	Scots Pine – Austria, The Czech Republic, Romania, & Ukraine	SS	11 - 9	18 - 3	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.1	11 - 6	17 - 10	20 - 0†	10 - 11	16 - 10	20 - 0†
		No.2	11 - 0	17 - 0	20 - 0†	10 - 5	16 - 1	20 - 0†
		No. 3	9 - 6	13 - 6	16 - 9	8 - 9	12 - 5	15 - 4
		Stud	9 - 5	13 - 9	16 - 9	8 - 8	12 - 7	15 - 4
16		SS	10 - 8	16 - 6	20 - 0†	10 - 1	15 - 7	20 - 0†
		No.1	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 1
		No.2	9 - 11	15 - 5	19 - 2	9 - 5	14 - 3	17 - 7
		No. 3	8 - 2	11 - 7	14 - 4	-	10 - 8	13 - 2
		Stud	8 - 1	11 - 9	14 - 4	-	10 - 10	13 - 2
24		SS	9 - 3	14 - 4	18 - 7	8 - 9	13 - 6	17 - 7
		No.1	9 - 1	13 - 6	16 - 9	8 - 7	12 - 5	15 - 4
		No.2	8 - 8	12 - 6	15 - 5	8 - 1	11 - 6	14 - 2
		No. 3	-	9 - 4	11 - 7	-	8 - 7	10 - 7
		Stud	-	9 - 6	11 - 7	-	8 - 8	10 - 7

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
24		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺
		No. 3	12 - 11	19 - 1	20 - 0 ⁺	12 - 5	18 - 0	20 - 0 ⁺	12 - 0	17 - 0	20 - 0 ⁺	11 - 4	16 - 2	20 - 0
		Stud	12 - 11	19 - 6	20 - 0 ⁺	12 - 5	18 - 4	20 - 0 ⁺	11 - 11	17 - 5	20 - 0 ⁺	11 - 4	16 - 6	20 - 0 ⁺
12	Scots Pine - Finland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺
24		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No. 3	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 1	20 - 0 ⁺
		Stud	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	18 - 7	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 0	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No. 3	12 - 11	19 - 1	20 - 0 ⁺	12 - 6	18 - 2	20 - 0 ⁺	12 - 2	17 - 5	20 - 0 ⁺	11 - 3	15 - 11	19 - 9
		Stud	12 - 11	19 - 6	20 - 0 ⁺	12 - 6	18 - 7	20 - 0 ⁺	12 - 2	17 - 9	20 - 0 ⁺	11 - 2	16 - 4	19 - 9
24		SS	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 7	17 - 10	20 - 0 ⁺	11 - 2	17 - 4	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺
		No. 3	10 - 10	15 - 4	19 - 0	10 - 4	14 - 8	18 - 1	9 - 10	14 - 0	17 - 3	9 - 0	12 - 10	15 - 10
		Stud	10 - 9	15 - 8	19 - 0	10 - 3	14 - 11	18 - 1	9 - 10	14 - 3	17 - 3	9 - 0	13 - 1	15 - 10
12	Scots Pine - Finland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 11	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺
		No. 3	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	17 - 10	20 - 0 ⁺
		Stud	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
24		SS	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No. 3	11 - 7	17 - 2	20 - 0 ⁺	11 - 2	16 - 5	20 - 0 ⁺	10 - 10	15 - 8	19 - 4	10 - 1	14 - 4	17 - 9
		Stud	11 - 7	17 - 9	20 - 0 ⁺	11 - 2	16 - 11	20 - 0 ⁺	10 - 10	16 - 2	19 - 4	10 - 2	14 - 10	17 - 9

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	13 - 5	20 - 0†	20 - 0†	12 - 10	19 - 10	20 - 0†	12 - 3	18 - 11	20 - 0†	11 - 9	18 - 2	20 - 0†
		No.1	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 6	20 - 0†	11 - 5	17 - 9	20 - 0†
		No.2	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 10	20 - 0†
		No. 3	12 - 1	17 - 2	20 - 0†	11 - 3	16 - 0	19 - 9	10 - 6	14 - 11	18 - 5	9 - 10	14 - 0	17 - 3
		Stud	12 - 1	17 - 7	20 - 0†	11 - 2	16 - 4	19 - 9	10 - 5	15 - 3	18 - 5	9 - 9	14 - 3	17 - 3
16		SS	12 - 2	18 - 10	20 - 0†	11 - 7	17 - 11	20 - 0†	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 5	20 - 0†
		No.1	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†
		No.2	11 - 3	17 - 5	20 - 0†	10 - 9	16 - 7	20 - 0†	10 - 3	15 - 10	20 - 0†	9 - 10	15 - 2	19 - 9
		No. 3	10 - 4	14 - 9	18 - 3	9 - 8	13 - 8	16 - 11	9 - 0	12 - 9	15 - 9	8 - 5	12 - 0	14 - 9
		Stud	10 - 4	15 - 1	18 - 3	9 - 7	14 - 0	16 - 11	8 - 11	13 - 1	15 - 9	8 - 5	12 - 3	14 - 9
24		SS	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 7	14 - 10	19 - 4	9 - 3	14 - 3	18 - 6
		No.1	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 1	9 - 5	14 - 5	17 - 10	9 - 0	13 - 6	16 - 8
		No.2	9 - 9	15 - 1	19 - 8	9 - 4	14 - 5	18 - 6	8 - 11	13 - 9	17 - 3	8 - 6	13 - 1	16 - 2
		No. 3	8 - 4	11 - 10	14 - 8	7 - 9	11 - 0	13 - 7	-	10 - 3	12 - 8	-	9 - 8	11 - 11
		Stud	8 - 4	12 - 1	14 - 8	-	11 - 3	13 - 7	-	10 - 6	12 - 8	-	9 - 10	11 - 11
12	Scots Pine - Finland	SS	13 - 5	20 - 0†	20 - 0†	12 - 10	19 - 10	20 - 0†	12 - 3	18 - 11	20 - 0†	11 - 9	18 - 2	20 - 0†
		No.1	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 6	20 - 0†	11 - 5	17 - 9	20 - 0†
		No.2	12 - 9	19 - 9	20 - 0†	12 - 2	18 - 10	20 - 0†	11 - 8	18 - 0	20 - 0†	11 - 2	17 - 3	20 - 0†
		No. 3	12 - 5	19 - 3	20 - 0†	11 - 10	17 - 11	20 - 0†	11 - 4	16 - 8	20 - 0†	10 - 10	15 - 8	19 - 4
		Stud	12 - 5	19 - 3	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 3	20 - 0†	10 - 10	16 - 2	19 - 4
16		SS	12 - 2	18 - 10	20 - 0†	11 - 7	17 - 11	20 - 0†	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 5	20 - 0†
		No.1	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†
		No.2	11 - 7	17 - 11	20 - 0†	11 - 0	17 - 1	20 - 0†	10 - 6	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†
		No. 3	11 - 3	16 - 6	20 - 0†	10 - 9	15 - 4	18 - 11	10 - 1	14 - 4	17 - 8	9 - 5	13 - 5	16 - 7
		Stud	11 - 3	17 - 1	20 - 0†	10 - 9	15 - 10	18 - 11	10 - 2	14 - 9	17 - 8	9 - 6	13 - 10	16 - 7
24		SS	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 7	14 - 10	19 - 4	9 - 3	14 - 3	18 - 6
		No.1	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 11	9 - 0	13 - 11	18 - 1
		No.2	10 - 0	15 - 6	20 - 0†	9 - 7	14 - 10	19 - 3	9 - 2	14 - 2	18 - 5	8 - 9	13 - 7	17 - 8
		No. 3	9 - 4	13 - 3	16 - 5	8 - 8	12 - 4	15 - 3	8 - 1	11 - 6	14 - 3	-	10 - 9	13 - 4
		Stud	9 - 5	13 - 9	16 - 5	8 - 9	12 - 9	15 - 3	8 - 2	11 - 11	14 - 3	-	11 - 2	13 - 4

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	11 - 3	17 - 5	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No.1	11 - 0	17 - 0	20 - 0 ⁺	10 - 5	16 - 1	20 - 0 ⁺
		No.2	10 - 5	16 - 2	20 - 0 ⁺	9 - 10	15 - 3	19 - 10
		No. 3	9 - 3	13 - 2	16 - 3	8 - 6	12 - 1	14 - 11
		Stud	9 - 2	13 - 5	16 - 3	8 - 5	12 - 4	14 - 11
16		SS	10 - 2	15 - 9	20 - 0 ⁺	9 - 8	14 - 11	19 - 5
		No.1	9 - 11	15 - 5	19 - 6	9 - 5	14 - 6	17 - 11
		No.2	9 - 5	14 - 7	18 - 10	8 - 11	13 - 10	17 - 4
		No. 3	7 - 11	11 - 3	13 - 11	-	10 - 4	12 - 9
		Stud	7 - 11	11 - 6	13 - 11	-	10 - 7	12 - 9
24		SS	8 - 10	13 - 8	17 - 10	8 - 5	12 - 11	16 - 10
		No.1	8 - 8	12 - 9	15 - 9	8 - 2	11 - 8	14 - 5
		No.2	8 - 2	12 - 3	15 - 2	7 - 9	11 - 3	13 - 11
		No. 3	-	9 - 1	11 - 2	-	8 - 4	10 - 3
		Stud	-	9 - 3	11 - 2	-	8 - 6	10 - 3
12	Scots Pine - Finland	SS	11 - 3	17 - 5	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No.1	11 - 0	17 - 0	20 - 0 ⁺	10 - 5	16 - 1	20 - 0 ⁺
		No.2	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No. 3	10 - 4	14 - 8	18 - 2	9 - 6	13 - 6	16 - 8
		Stud	10 - 5	15 - 2	18 - 2	9 - 7	13 - 11	16 - 8
16		SS	10 - 2	15 - 9	20 - 0 ⁺	9 - 8	14 - 11	19 - 5
		No.1	9 - 11	15 - 5	20 - 0 ⁺	9 - 5	14 - 7	18 - 11
		No.2	9 - 8	15 - 0	19 - 6	9 - 2	14 - 2	18 - 5
		No. 3	8 - 11	12 - 7	15 - 7	8 - 2	11 - 7	14 - 4
		Stud	8 - 11	13 - 0	15 - 7	8 - 2	11 - 11	14 - 4
24		SS	8 - 10	13 - 8	17 - 10	8 - 5	12 - 11	16 - 10
		No.1	8 - 8	13 - 4	17 - 3	8 - 2	12 - 8	15 - 10
		No.2	8 - 5	13 - 0	16 - 11	8 - 0	12 - 4	15 - 7
		No. 3	-	10 - 2	12 - 6	-	9 - 4	11 - 6
		Stud	-	10 - 6	12 - 6	-	9 - 7	11 - 6

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†	12 - 11	19 - 5	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†	12 - 11	20 - 0	20 - 0†
24		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 8	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		No.2	12 - 11	19 - 11	20 - 0†	12 - 5	19 - 3	20 - 0†	12 - 0	18 - 6	20 - 0†	11 - 7	17 - 11	20 - 0†
		No. 3	12 - 6	18 - 5	20 - 0†	12 - 0	17 - 5	20 - 0†	11 - 7	16 - 6	20 - 0†	11 - 0	15 - 8	19 - 4
		Stud	12 - 6	19 - 0	20 - 0†	12 - 0	17 - 11	20 - 0†	11 - 7	17 - 0	20 - 0†	11 - 1	16 - 1	19 - 4
12	Scots Pine - Sweden	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 9	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	13 - 7	19 - 4	20 - 0†	12 - 11	18 - 4	20 - 0†	12 - 3	17 - 5	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	13 - 9	20 - 0†	20 - 0†	13 - 0	18 - 11	20 - 0†	12 - 4	18 - 0	20 - 0†
24		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 11	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†	12 - 11	20 - 0	20 - 0†
		No.2	13 - 3	20 - 0†	20 - 0†	12 - 10	19 - 10	20 - 0†	12 - 4	19 - 1	20 - 0†	11 - 11	18 - 6	20 - 0†
		No. 3	11 - 7	16 - 6	20 - 0†	10 - 11	15 - 7	19 - 3	10 - 4	14 - 9	18 - 3	9 - 10	14 - 0	17 - 3
		Stud	11 - 8	17 - 1	20 - 0†	11 - 1	16 - 1	19 - 3	10 - 5	15 - 3	18 - 3	9 - 11	14 - 6	17 - 3

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺
		No. 3	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	19 - 8	20 - 0 ⁺	12 - 3	18 - 0	20 - 0 ⁺
		Stud	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 3	18 - 7	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.2	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺
		No. 3	12 - 6	18 - 6	20 - 0 ⁺	12 - 1	17 - 7	20 - 0 ⁺	11 - 9	16 - 10	20 - 0 ⁺	10 - 10	15 - 5	19 - 1
		Stud	12 - 6	19 - 1	20 - 0 ⁺	12 - 1	18 - 2	20 - 0 ⁺	11 - 9	17 - 4	20 - 0 ⁺	10 - 11	15 - 11	19 - 1
24		SS	12 - 9	19 - 9	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		No.2	11 - 2	17 - 4	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺	10 - 0	15 - 5	20 - 0 ⁺
		No. 3	10 - 6	14 - 10	18 - 5	10 - 0	14 - 2	17 - 6	9 - 6	13 - 6	16 - 9	8 - 9	12 - 5	15 - 4
		Stud	10 - 6	15 - 4	18 - 5	10 - 0	14 - 7	17 - 6	9 - 7	13 - 11	16 - 9	8 - 9	12 - 10	15 - 4
12	Scots Pine - Sweden	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No. 3	13 - 7	19 - 4	20 - 0 ⁺	12 - 11	18 - 5	20 - 0 ⁺	12 - 4	17 - 7	20 - 0 ⁺	11 - 4	16 - 1	19 - 11
		Stud	13 - 8	20 - 0	20 - 0 ⁺	13 - 1	19 - 0	20 - 0 ⁺	12 - 6	18 - 2	20 - 0 ⁺	11 - 5	16 - 8	19 - 11
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No.2	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No. 3	11 - 8	16 - 6	20 - 0 ⁺	11 - 1	15 - 9	19 - 6	10 - 7	15 - 1	18 - 7	9 - 9	13 - 10	17 - 1
		Stud	11 - 9	17 - 1	20 - 0 ⁺	11 - 2	16 - 4	19 - 6	10 - 8	15 - 7	18 - 7	9 - 10	14 - 3	17 - 1
24		SS	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.2	11 - 7	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 10	16 - 5	20 - 0 ⁺	10 - 3	15 - 1	18 - 8
		No. 3	9 - 4	13 - 4	16 - 5	8 - 11	12 - 8	15 - 8	8 - 6	12 - 1	15 - 0	7 - 10	11 - 1	13 - 9
		Stud	9 - 5	13 - 9	16 - 5	9 - 0	13 - 1	15 - 8	8 - 7	12 - 6	15 - 0	7 - 11	11 - 6	13 - 9

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 5	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No.1	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺	11 - 5	17 - 9	20 - 0 ⁺
		No.2	12 - 1	18 - 8	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	11 - 0	17 - 0	20 - 0 ⁺	10 - 6	16 - 3	20 - 0 ⁺
		No. 3	11 - 8	16 - 8	20 - 0 ⁺	10 - 11	15 - 5	19 - 1	10 - 2	14 - 5	17 - 10	9 - 6	13 - 6	16 - 8
		Stud	11 - 8	17 - 2	20 - 0 ⁺	10 - 11	15 - 11	19 - 1	10 - 2	14 - 10	17 - 10	9 - 7	13 - 11	16 - 8
16		SS	12 - 5	19 - 3	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No.1	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.2	10 - 11	16 - 11	20 - 0 ⁺	10 - 5	16 - 1	20 - 0 ⁺	9 - 11	15 - 4	20 - 0	9 - 6	14 - 9	19 - 2
		No. 3	10 - 1	14 - 3	17 - 8	9 - 4	13 - 3	16 - 5	8 - 8	12 - 4	15 - 3	8 - 2	11 - 7	14 - 4
		Stud	10 - 1	14 - 8	17 - 8	9 - 4	13 - 8	16 - 5	8 - 9	12 - 9	15 - 3	8 - 2	11 - 11	14 - 4
24		SS	10 - 9	16 - 8	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	19 - 9	9 - 5	14 - 7	18 - 11
		No.1	10 - 4	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	19 - 1	9 - 5	14 - 5	18 - 11	9 - 0	13 - 11	16 - 8
		No.2	9 - 6	14 - 8	19 - 1	9 - 0	13 - 11	17 - 9	8 - 8	13 - 4	16 - 7	8 - 3	12 - 7	15 - 7
		No. 3	8 - 1	11 - 6	14 - 2	-	10 - 8	13 - 2	-	9 - 11	12 - 4	-	9 - 4	11 - 6
		Stud	8 - 1	11 - 10	14 - 2	-	11 - 0	13 - 2	-	10 - 3	12 - 4	-	9 - 7	11 - 6
12	Scots Pine - Sweden	SS	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 10	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No.1	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 3	18 - 11	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No.2	12 - 5	19 - 3	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 5	20 - 0 ⁺
		No. 3	10 - 6	14 - 11	18 - 5	9 - 9	13 - 10	17 - 1	9 - 1	12 - 11	15 - 11	8 - 6	12 - 1	14 - 11
		Stud	10 - 7	15 - 5	18 - 5	9 - 10	14 - 4	17 - 1	9 - 2	13 - 4	15 - 11	8 - 7	12 - 6	14 - 11
16		SS	12 - 8	19 - 8	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.1	12 - 2	18 - 10	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺	10 - 7	16 - 5	20 - 0 ⁺
		No.2	11 - 3	17 - 4	20 - 0 ⁺	10 - 9	16 - 1	19 - 11	10 - 3	15 - 0	18 - 7	9 - 10	14 - 1	17 - 5
		No. 3	9 - 0	12 - 9	15 - 9	8 - 4	11 - 10	14 - 8	7 - 10	11 - 1	13 - 8	-	10 - 4	12 - 10
		Stud	9 - 1	13 - 2	15 - 9	8 - 5	12 - 3	14 - 8	7 - 10	11 - 5	13 - 8	-	10 - 9	12 - 10
24		SS	11 - 0	17 - 1	20 - 0 ⁺	10 - 6	16 - 3	20 - 0 ⁺	10 - 1	15 - 6	20 - 0 ⁺	9 - 8	14 - 11	19 - 4
		No.1	10 - 7	16 - 4	20 - 0 ⁺	10 - 1	15 - 7	19 - 5	9 - 7	14 - 8	18 - 2	9 - 3	13 - 9	17 - 0
		No.2	9 - 9	13 - 11	17 - 3	9 - 1	12 - 11	16 - 0	8 - 6	12 - 1	14 - 11	8 - 0	11 - 4	14 - 0
		No. 3	-	10 - 3	12 - 8	-	9 - 6	11 - 9	-	8 - 11	11 - 0	-	8 - 4	10 - 4
		Stud	-	10 - 7	12 - 8	-	9 - 10	11 - 9	-	9 - 3	11 - 0	-	8 - 8	10 - 4

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	11 - 6	17 - 10	20 - 0 ⁺	10 - 11	16 - 10	20 - 0 ⁺
		No.1	11 - 0	17 - 0	20 - 0 ⁺	10 - 5	16 - 1	20 - 0 ⁺
		No.2	10 - 1	15 - 8	20 - 0 ⁺	9 - 7	14 - 10	19 - 3
		No. 3	8 - 11	12 - 9	15 - 9	8 - 3	11 - 8	14 - 5
		Stud	9 - 0	13 - 1	15 - 9	8 - 3	12 - 0	14 - 5
16		SS	10 - 5	16 - 2	20 - 0 ⁺	9 - 10	15 - 3	19 - 10
		No.1	9 - 11	15 - 5	19 - 6	9 - 5	14 - 6	17 - 11
		No.2	9 - 2	14 - 2	18 - 2	8 - 8	13 - 5	16 - 8
		No. 3	-	10 - 11	13 - 6	-	10 - 0	12 - 4
		Stud	-	11 - 3	13 - 6	-	10 - 4	12 - 4
24		SS	9 - 1	14 - 0	18 - 3	8 - 7	13 - 3	17 - 3
		No.1	8 - 8	13 - 4	17 - 5	8 - 2	12 - 8	16 - 5
		No.2	7 - 11	11 - 10	14 - 8	-	10 - 10	13 - 5
		No. 3	-	8 - 9	10 - 10	-	8 - 1	9 - 11
		Stud	-	9 - 0	10 - 10	-	8 - 4	9 - 11
12	Scots Pine - Sweden	SS	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.1	11 - 3	17 - 5	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No.2	10 - 5	15 - 5	19 - 1	9 - 10	14 - 2	17 - 6
		No. 3	8 - 0	11 - 4	14 - 1	-	10 - 5	12 - 11
		Stud	8 - 1	11 - 9	14 - 1	-	10 - 10	12 - 11
16		SS	10 - 8	16 - 6	20 - 0 ⁺	10 - 1	15 - 7	20 - 0 ⁺
		No.1	10 - 2	15 - 9	19 - 10	9 - 8	14 - 9	18 - 3
		No.2	9 - 4	13 - 3	16 - 4	8 - 7	12 - 2	15 - 0
		No. 3	-	9 - 9	12 - 1	-	8 - 11	11 - 1
		Stud	-	10 - 1	12 - 1	-	9 - 3	11 - 1
24		SS	9 - 3	14 - 4	18 - 7	8 - 9	13 - 6	17 - 7
		No.1	8 - 10	12 - 11	16 - 0	8 - 4	11 - 10	14 - 8
		No.2	-	10 - 8	13 - 2	-	9 - 9	12 - 1
		No. 3	-	7 - 10	9 - 8	-	-	8 - 11
		Stud	-	8 - 1	9 - 8	-	-	8 - 11

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir – France & Germany	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	26 - 0	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	26 - 0	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
24		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 11	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†	12 - 11	20 - 0	20 - 0†
		No. 3	13 - 8	20 - 0†	20 - 0†	13 - 2	19 - 1	20 - 0†	12 - 8	18 - 1	20 - 0†	12 - 1	17 - 2	20 - 0†
		Stud	13 - 8	20 - 0†	20 - 0†	13 - 2	19 - 7	20 - 0†	12 - 8	18 - 7	20 - 0†	12 - 1	17 - 7	20 - 0†
12	Douglas Fir/European Larch – Austria, The Czech Republic & Bavaria	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
24		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 9	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 11	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 8	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir – France & Germany	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺
		No. 3	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	19 - 4	20 - 0 ⁺	12 - 10	18 - 5	20 - 0 ⁺	11 - 11	16 - 11	20 - 0 ⁺
		Stud	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	19 - 10	20 - 0 ⁺	12 - 10	19 - 0	20 - 0 ⁺	11 - 11	17 - 5	20 - 0 ⁺
24		SS	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 9	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺
		No.1	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺
		No.2	12 - 6	19 - 4	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No. 3	11 - 6	16 - 4	20 - 0 ⁺	10 - 11	15 - 6	19 - 3	10 - 5	14 - 10	18 - 4	9 - 7	13 - 7	16 - 10
		Stud	11 - 6	16 - 9	20 - 0 ⁺	10 - 11	16 - 0	19 - 3	10 - 6	15 - 3	18 - 4	9 - 7	14 - 0	16 - 10
12	Douglas Fir/European Larch – Austria, The Czech Republic & Bavaria	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
24		SS	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺
		No.1	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺
		No.2	12 - 9	19 - 9	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 4	17 - 7	20 - 0 ⁺
		No. 3	12 - 2	18 - 10	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺
		Stud	12 - 2	18 - 9	20 - 0 ⁺	11 - 10	17 - 10	20 - 0 ⁺	11 - 6	17 - 1	20 - 0 ⁺	10 - 9	15 - 8	20 - 0 ⁺

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir – France & Germany	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 9	14 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 10	20 - 0 ⁺	12 - 3	19 - 0	14 - 0 ⁺
		No.2	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 10	20 - 0 ⁺	12 - 3	18 - 11	20 - 0 ⁺	11 - 9	18 - 2	13 - 5
		No. 3	12 - 9	18 - 3	20 - 0 ⁺	11 - 11	16 - 11	20 - 0 ⁺	11 - 2	15 - 10	19 - 7	10 - 5	14 - 10	12 - 9
		Stud	12 - 9	18 - 9	20 - 0 ⁺	11 - 11	17 - 5	20 - 0 ⁺	11 - 2	16 - 3	19 - 7	10 - 5	15 - 3	12 - 9
16		SS	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺	11 - 6	17 - 10	13 - 2
		No.1	12 - 8	19 - 8	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	12 - 8
		No.2	12 - 2	18 - 10	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺	10 - 7	16 - 5	12 - 2
		No. 3	11 - 0	15 - 8	19 - 4	10 - 3	14 - 6	18 - 0	9 - 7	13 - 7	16 - 9	8 - 11	12 - 8	11 - 0
		Stud	11 - 0	16 - 1	19 - 4	10 - 3	14 - 11	18 - 0	9 - 7	13 - 11	16 - 9	9 - 0	13 - 1	11 - 0
24		SS	11 - 5	17 - 9	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺	10 - 5	16 - 2	20 - 0 ⁺	10 - 0	15 - 6	20 - 0 ⁺
		No.1	11 - 0	17 - 1	20 - 0 ⁺	10 - 6	16 - 3	20 - 0 ⁺	10 - 1	15 - 6	19 - 10	9 - 8	14 - 11	18 - 7
		No.2	10 - 7	16 - 4	20 - 0 ⁺	10 - 1	15 - 7	19 - 5	9 - 7	14 - 8	18 - 2	9 - 3	13 - 9	17 - 0
		No. 3	8 - 10	12 - 7	15 - 7	8 - 3	11 - 8	14 - 5	-	10 - 11	13 - 6	-	10 - 3	12 - 8
		Stud	8 - 11	12 - 11	15 - 7	8 - 3	12 - 0	14 - 5	-	11 - 3	13 - 6	-	10 - 6	12 - 8
12	Douglas Fir/European Larch – Austria, The Czech Republic & Bavaria	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 10	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No.2	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 5	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No. 3	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 11	18 - 6	20 - 0 ⁺	11 - 5	17 - 9	20 - 0 ⁺
		Stud	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺	11 - 11	18 - 2	20 - 0 ⁺	11 - 5	17 - 0	20 - 0 ⁺
16		SS	12 - 11	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 10	18 - 3	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺
		No.1	12 - 8	19 - 8	20 - 0 ⁺	12 - 1	18 - 9	20 - 0 ⁺	11 - 7	17 - 11	20 - 0 ⁺	11 - 1	17 - 2	20 - 0 ⁺
		No.2	12 - 5	19 - 3	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No. 3	11 - 10	18 - 4	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		Stud	11 - 10	18 - 0	20 - 0 ⁺	11 - 4	16 - 8	20 - 0 ⁺	10 - 8	15 - 7	20 - 0 ⁺	10 - 0	14 - 7	20 - 0 ⁺
24		SS	11 - 3	17 - 5	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 10	15 - 2	19 - 9
		No.1	11 - 0	17 - 1	20 - 0 ⁺	10 - 6	16 - 3	20 - 0 ⁺	10 - 1	15 - 6	20 - 0 ⁺	9 - 8	14 - 11	19 - 4
		No.2	10 - 9	16 - 8	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	19 - 9	9 - 5	14 - 7	18 - 11
		No. 3	10 - 4	15 - 11	20 - 0 ⁺	9 - 10	15 - 2	18 - 9	9 - 5	14 - 2	17 - 6	9 - 0	13 - 3	16 - 5
		Stud	9 - 11	14 - 6	20 - 0 ⁺	9 - 3	13 - 5	18 - 9	8 - 7	12 - 6	17 - 6	8 - 1	11 - 9	16 - 5

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir – France & Germany	SS	12 - 3	18 - 11	20 - 0†	11 - 7	17 - 11	20 - 0†
		No.1	11 - 9	18 - 3	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.2	11 - 3	17 - 5	20 - 0†	10 - 8	16 - 6	20 - 0†
		No. 3	9 - 10	13 - 11	17 - 3	9 - 0	12 - 9	15 - 10
		Stud	9 - 10	14 - 4	17 - 3	9 - 0	13 - 2	15 - 10
16		SS	11 - 1	17 - 2	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.1	10 - 8	16 - 6	20 - 0†	10 - 1	15 - 7	19 - 11
		No.2	10 - 2	15 - 9	19 - 10	9 - 8	14 - 9	18 - 3
		No. 3	8 - 5	11 - 11	14 - 9	-	11 - 0	13 - 7
		Stud	8 - 5	12 - 3	14 - 9	-	11 - 3	13 - 7
24		SS	9 - 7	14 - 10	19 - 4	9 - 1	14 - 1	18 - 3
		No.1	9 - 3	14 - 2	17 - 6	8 - 9	13 - 0	16 - 0
		No.2	8 - 10	12 - 11	16 - 0	8 - 4	11 - 10	14 - 8
		No. 3	-	9 - 7	11 - 11	-	8 - 10	10 - 11
		Stud	-	9 - 11	11 - 11	-	9 - 1	10 - 11
12	Douglas Fir/European Larch – Austria, The Czech Republic & Bavaria	SS	12 - 0	18 - 7	20 - 0†	11 - 4	17 - 7	20 - 0†
		No.1	11 - 9	18 - 3	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.2	11 - 6	17 - 10	20 - 0†	10 - 11	16 - 10	20 - 0†
		No. 3	11 - 0	17 - 0	20 - 0†	10 - 5	16 - 1	20 - 0†
		Stud	11 - 0	16 - 0	20 - 0†	10 - 1	14 - 8	20 - 0†
16		SS	10 - 10	16 - 10	20 - 0†	10 - 3	15 - 11	20 - 0†
		No.1	10 - 8	16 - 6	20 - 0†	10 - 1	15 - 7	20 - 0†
		No.2	10 - 5	16 - 2	20 - 0†	9 - 10	15 - 3	19 - 10
		No. 3	9 - 11	15 - 5	19 - 2	9 - 5	14 - 3	17 - 7
		Stud	9 - 5	13 - 9	19 - 2	8 - 8	12 - 7	17 - 7
24		SS	9 - 5	14 - 7	19 - 0	8 - 11	13 - 10	17 - 11
		No.1	9 - 3	14 - 4	18 - 7	8 - 9	13 - 6	17 - 7
		No.2	9 - 1	14 - 0	18 - 3	8 - 7	13 - 3	17 - 3
		No. 3	8 - 8	12 - 6	15 - 5	8 - 1	11 - 6	14 - 2
		Stud	-	11 - 1	15 - 5	7 - 0	10 - 2	14 - 2

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) – Germany, NE France, & Switzerland	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†
24		SS	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†	12 - 11	20 - 0	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		No.2	13 - 8	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†	12 - 8	19 - 8	20 - 0†	12 - 3	19 - 0	20 - 0†
		No. 3	12 - 11	19 - 1	20 - 0†	12 - 5	18 - 0	20 - 0†	12 - 0	17 - 0	20 - 0†	11 - 4	16 - 2	20 - 0†
		Stud	12 - 11	19 - 6	20 - 0†	12 - 5	18 - 4	20 - 0†	11 - 11	17 - 5	20 - 0†	11 - 4	16 - 6	20 - 0†

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) – Germany, NE France, & Switzerland	SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+
		No.2	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 5	20 - 0+	20 - 0+
		No. 3	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+	13 - 5	20 - 0+	20 - 0+	12 - 8	18 - 7	20 - 0+
		Stud	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+	13 - 5	20 - 0+	20 - 0+	12 - 8	19 - 0	20 - 0+
16		SS	14 - 0++	20 - 0+	20 - 0+	13 - 11	20 - 0+	20 - 0+	13 - 6	20 - 0+	20 - 0+	12 - 10	19 - 10	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	13 - 7	20 - 0+	20 - 0+	13 - 3	20 - 0+	20 - 0+	12 - 6	19 - 4	20 - 0+
		No.2	13 - 8	20 - 0+	20 - 0+	13 - 3	20 - 0+	20 - 0+	12 - 10	19 - 11	20 - 0+	12 - 2	18 - 10	20 - 0+
		No. 3	12 - 11	19 - 1	20 - 0+	12 - 6	18 - 2	20 - 0+	12 - 2	17 - 5	20 - 0+	11 - 3	15 - 11	19 - 9
		Stud	12 - 11	19 - 6	20 - 0+	12 - 6	18 - 7	20 - 0+	12 - 2	17 - 9	20 - 0+	11 - 2	16 - 4	19 - 9
24		SS	12 - 6	19 - 4	20 - 0+	12 - 1	18 - 9	20 - 0+	11 - 9	18 - 2	20 - 0+	11 - 1	17 - 2	20 - 0+
		No.1	12 - 2	18 - 10	20 - 0+	11 - 10	18 - 3	20 - 0+	11 - 6	17 - 9	20 - 0+	10 - 10	16 - 9	20 - 0+
		No.2	11 - 11	18 - 5	20 - 0+	11 - 6	17 - 10	20 - 0+	11 - 2	17 - 3	20 - 0+	10 - 7	16 - 4	20 - 0+
		No. 3	10 - 10	15 - 4	19 - 0	10 - 4	14 - 8	18 - 1	9 - 10	14 - 0	17 - 3	9 - 0	12 - 10	15 - 10
		Stud	10 - 9	15 - 8	19 - 0	10 - 3	14 - 11	18 - 1	9 - 10	14 - 3	17 - 3	9 - 0	13 - 1	15 - 10

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) - Germany, NE France, & Switzerland	SS	13 - 5	20 - 0†	20 - 0†	12 - 10	19 - 10	20 - 0†	12 - 3	18 - 11	20 - 0†	11 - 9	18 - 2	20 - 0†
		No.1	13 - 1	20 - 0†	20 - 0†	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 6	20 - 0†	11 - 5	17 - 9	20 - 0†
		No.2	12 - 9	19 - 9	20 - 0†	12 - 2	18 - 10	20 - 0†	11 - 8	18 - 0	20 - 0†	11 - 2	17 - 3	20 - 0†
		No. 3	12 - 1	17 - 2	20 - 0†	11 - 3	16 - 0	19 - 9	10 - 6	14 - 11	18 - 5	9 - 10	14 - 0	17 - 3
		Stud	12 - 1	17 - 7	20 - 0†	11 - 2	16 - 4	19 - 9	10 - 5	15 - 3	18 - 5	9 - 9	14 - 3	17 - 3
16		SS	12 - 2	18 - 10	20 - 0†	11 - 7	17 - 11	20 - 0†	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 5	20 - 0†
		No.1	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 10	16 - 9	20 - 0†	10 - 4	15 - 11	19 - 8
		No.2	11 - 7	17 - 11	20 - 0†	11 - 0	17 - 1	20 - 0†	10 - 6	16 - 4	20 - 0†	10 - 1	15 - 7	19 - 8
		No. 3	10 - 4	14 - 9	18 - 3	9 - 8	13 - 8	16 - 11	9 - 0	12 - 9	15 - 9	8 - 5	12 - 0	14 - 9
		Stud	10 - 4	15 - 1	18 - 3	9 - 7	14 - 0	16 - 11	8 - 11	13 - 1	15 - 9	8 - 5	12 - 3	14 - 9
24		SS	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 7	14 - 10	19 - 4	9 - 3	14 - 3	18 - 4
		No.1	10 - 4	15 - 9	19 - 6	9 - 10	14 - 8	18 - 2	9 - 5	13 - 8	16 - 11	9 - 0	12 - 10	15 - 10
		No.2	10 - 0	15 - 6	19 - 6	9 - 7	14 - 8	18 - 2	9 - 2	13 - 8	16 - 11	8 - 9	12 - 10	15 - 10
		No. 3	8 - 4	11 - 10	14 - 8	7 - 9	11 - 0	13 - 7	-	10 - 3	12 - 8	-	9 - 8	11 - 11
		Stud	8 - 4	12 - 1	14 - 8	-	11 - 3	13 - 7	-	10 - 6	12 - 8	-	9 - 10	11 - 11

See footnotes to the table on page 69.

TABLE 1 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure B - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) – Germany, NE France, & Switzerland	SS	11 - 3	17 - 5	20 - 0†	10 - 8	16 - 6	20 - 0†
		No.1	11 - 0	17 - 0	20 - 0†	10 - 5	16 - 1	19 - 10
		No.2	10 - 9	16 - 7	20 - 0†	10 - 2	15 - 8	19 - 10
		No. 3	9 - 3	13 - 2	16 - 3	8 - 6	12 - 1	14 - 11
		Stud	9 - 2	13 - 5	16 - 3	8 - 5	12 - 4	14 - 11
16		SS	10 - 2	15 - 9	20 - 0†	9 - 8	14 - 11	19 - 5
		No.1	9 - 11	15 - 0	18 - 6	9 - 5	13 - 9	17 - 0
		No.2	9 - 8	15 - 0	18 - 6	9 - 2	13 - 9	17 - 0
		No. 3	7 - 11	11 - 3	13 - 11	-	10 - 4	12 - 9
		Stud	7 - 11	11 - 6	13 - 11	-	10 - 7	12 - 9
24		SS	8 - 10	13 - 8	17 - 3	8 - 5	12 - 9	15 - 10
		No.1	8 - 6	12 - 1	14 - 11	7 - 10	11 - 1	13 - 8
		No.2	8 - 5	12 - 1	14 - 11	7 - 10	11 - 1	13 - 8
		No. 3	-	9 - 1	11 - 2	-	8 - 4	10 - 3
		Stud	-	9 - 3	11 - 2	-	8 - 6	10 - 3

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	19 - 10	20 - 0 ⁺	12 - 7	18 - 10	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
24		SS	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	19 - 11	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No.1	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No.2	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺
		No. 3	12 - 2	17 - 11	20 - 0 ⁺	11 - 9	16 - 11	20 - 0 ⁺	11 - 3	16 - 0	19 - 9	10 - 8	15 - 2	18 - 9
		Stud	12 - 2	18 - 6	20 - 0 ⁺	11 - 9	17 - 5	20 - 0 ⁺	11 - 4	16 - 6	20 - 0 ⁺	10 - 9	15 - 8	20 - 0 ⁺
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No. 3	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 4	20 - 0 ⁺	12 - 4	18 - 3	20 - 0 ⁺	11 - 11	17 - 4	20 - 0 ⁺
		Stud	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 9	20 - 0 ⁺	12 - 4	18 - 11	20 - 0 ⁺	11 - 11	18 - 0	20 - 0 ⁺
24		SS	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 8	20 - 0 ⁺	12 - 2	18 - 0	20 - 0 ⁺	11 - 3	17 - 4	20 - 0 ⁺
		No.2	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	12 - 2	17 - 6	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺
		No. 3	11 - 7	16 - 6	20 - 0 ⁺	10 - 11	15 - 6	19 - 3	10 - 4	14 - 8	18 - 2	9 - 10	13 - 11	17 - 3
		Stud	11 - 8	17 - 1	20 - 0 ⁺	11 - 1	16 - 1	19 - 3	10 - 5	15 - 3	18 - 2	9 - 11	14 - 6	17 - 3

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.2	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No. 3	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 1	19 - 11	20 - 0 ⁺	12 - 8	19 - 1	20 - 0 ⁺	12 - 0	17 - 6	20 - 0 ⁺
		Stud	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺	12 - 0	18 - 1	20 - 0 ⁺
16		SS	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺
		No.1	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No.2	12 - 10	19 - 10	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺
		No. 3	12 - 2	17 - 11	20 - 0 ⁺	11 - 10	17 - 1	20 - 0 ⁺	11 - 6	16 - 4	20 - 0 ⁺	10 - 7	15 - 0	18 - 6
		Stud	12 - 2	18 - 6	20 - 0 ⁺	11 - 10	17 - 8	20 - 0 ⁺	11 - 6	16 - 10	20 - 0 ⁺	10 - 7	15 - 6	18 - 6
24		SS	11 - 8	18 - 0	20 - 0 ⁺	11 - 3	17 - 5	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.1	11 - 5	17 - 7	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No.2	11 - 2	17 - 3	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺	10 - 6	16 - 2	20 - 0 ⁺	9 - 11	15 - 4	19 - 11
		No. 3	10 - 2	14 - 5	17 - 10	9 - 8	13 - 9	17 - 0	9 - 3	13 - 2	16 - 3	8 - 6	12 - 1	14 - 11
		Stud	10 - 3	14 - 11	17 - 10	9 - 9	14 - 2	17 - 0	9 - 4	13 - 7	16 - 3	8 - 7	12 - 5	14 - 11
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.1	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		No.2	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No. 3	12 - 9	19 - 3	20 - 0 ⁺	12 - 4	18 - 4	20 - 0 ⁺	12 - 0	17 - 6	20 - 0 ⁺	11 - 4	16 - 1	19 - 11
		Stud	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 0	20 - 0 ⁺	12 - 0	18 - 2	20 - 0 ⁺	11 - 4	16 - 8	19 - 11
16		SS	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.2	12 - 2	18 - 11	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No. 3	11 - 6	16 - 6	20 - 0 ⁺	11 - 1	15 - 9	19 - 5	10 - 7	15 - 0	18 - 7	9 - 9	13 - 10	17 - 1
		Stud	11 - 6	17 - 1	20 - 0 ⁺	11 - 2	16 - 4	19 - 5	10 - 8	15 - 7	18 - 7	9 - 10	14 - 4	17 - 1
24		SS	11 - 5	17 - 7	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No.1	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	15 - 0	19 - 4
		No.2	10 - 7	16 - 5	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺	10 - 0	15 - 5	20 - 0 ⁺	9 - 5	14 - 7	18 - 8
		No. 3	9 - 4	13 - 3	16 - 5	8 - 11	12 - 8	15 - 8	8 - 6	12 - 1	14 - 11	7 - 10	11 - 1	13 - 9
		Stud	9 - 5	13 - 9	16 - 5	9 - 0	13 - 1	15 - 8	8 - 7	12 - 6	14 - 11	7 - 11	11 - 6	13 - 9

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 5	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†
		No.1	12 - 3	19 - 0	20 - 0†	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 7	20 - 0†
		No.2	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No. 3	11 - 4	16 - 2	20 - 0	10 - 7	15 - 0	18 - 6	9 - 10	14 - 0	17 - 4	9 - 3	13 - 1	16 - 2
		Stud	11 - 5	16 - 8	20 - 0†	10 - 7	15 - 6	18 - 6	9 - 11	14 - 5	17 - 4	9 - 4	13 - 6	16 - 2
16		SS	11 - 4	17 - 6	20 - 0†	10 - 9	16 - 8	20 - 0†	10 - 4	15 - 11	20 - 0†	9 - 11	15 - 4	19 - 11
		No.1	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No.2	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	19 - 10	9 - 6	14 - 8	18 - 10
		No. 3	9 - 9	13 - 10	17 - 1	9 - 1	12 - 10	15 - 11	8 - 5	12 - 0	14 - 10	7 - 11	11 - 3	13 - 11
		Stud	9 - 10	14 - 3	17 - 1	9 - 1	13 - 3	15 - 11	8 - 6	12 - 5	14 - 10	8 - 0	11 - 7	13 - 11
24		SS	9 - 10	15 - 2	19 - 9	9 - 4	14 - 6	18 - 10	8 - 11	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3
		No.1	9 - 7	14 - 11	19 - 4	9 - 2	14 - 2	18 - 5	8 - 9	13 - 7	17 - 8	8 - 5	13 - 0	16 - 11
		No.2	9 - 5	14 - 7	18 - 8	9 - 0	13 - 10	17 - 4	8 - 7	13 - 1	16 - 2	8 - 3	12 - 3	15 - 2
		No. 3	7 - 10	11 - 2	13 - 9	-	10 - 4	12 - 9	-	9 - 8	11 - 11	-	9 - 1	11 - 2
		Stud	7 - 11	11 - 6	13 - 9	-	10 - 8	12 - 9	-	10 - 0	11 - 11	-	9 - 4	11 - 2
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	12 - 3	19 - 0	20 - 0†	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 7	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	11 - 5	17 - 8	20 - 0†	10 - 10	16 - 10	20 - 0†	10 - 5	16 - 1	20 - 0†	9 - 11	15 - 5	20 - 0†
		No. 3	10 - 6	14 - 10	18 - 5	9 - 9	13 - 10	17 - 1	9 - 1	12 - 11	15 - 11	8 - 6	12 - 1	14 - 11
		Stud	10 - 7	15 - 5	18 - 5	9 - 10	14 - 4	17 - 1	9 - 2	13 - 4	15 - 11	8 - 7	12 - 6	14 - 11
16		SS	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	14 - 11	19 - 2	9 - 3	14 - 4	18 - 0
		No.2	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 7	9 - 0	13 - 11	17 - 5
		No. 3	9 - 0	12 - 9	15 - 9	8 - 4	11 - 10	14 - 7	7 - 9	11 - 1	13 - 8	-	10 - 4	12 - 9
		Stud	9 - 1	13 - 2	15 - 9	8 - 5	12 - 3	14 - 7	7 - 10	11 - 5	13 - 8	-	10 - 9	12 - 9
24		SS	9 - 7	14 - 11	19 - 4	9 - 2	14 - 2	18 - 5	8 - 9	13 - 7	17 - 8	8 - 5	13 - 0	16 - 11
		No.1	9 - 2	14 - 2	17 - 10	8 - 9	13 - 5	16 - 7	8 - 4	12 - 6	15 - 5	8 - 0	11 - 8	14 - 6
		No.2	8 - 11	13 - 10	17 - 3	8 - 6	12 - 11	16 - 0	8 - 2	12 - 1	14 - 11	7 - 10	11 - 4	14 - 0
		No. 3	-	10 - 3	12 - 8	-	9 - 6	11 - 9	-	8 - 11	11 - 0	-	8 - 4	10 - 4
		Stud	-	10 - 7	12 - 8	-	9 - 10	11 - 9	-	9 - 3	11 - 0	-	8 - 8	10 - 4

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Austrian Spruce – Austria & The Czech Republic	SS	10 - 6	16 - 3	20 - 0†	9 - 11	15 - 4	20 - 0
		No.1	10 - 3	15 - 11	20 - 0†	9 - 9	15 - 1	19 - 7
		No.2	10 - 1	15 - 7	20 - 0†	9 - 6	14 - 8	19 - 0
		No. 3	8 - 8	12 - 4	15 - 3	8 - 0	11 - 4	14 - 0
		Stud	8 - 9	12 - 9	15 - 3	8 - 0	11 - 8	14 - 0
16		SS	9 - 6	14 - 8	19 - 1	9 - 0	13 - 11	18 - 1
		No.1	9 - 4	14 - 5	18 - 6	8 - 10	13 - 7	16 - 11
		No.2	9 - 1	14 - 1	17 - 8	8 - 7	13 - 2	16 - 3
		No. 3	-	10 - 7	13 - 1	-	9 - 8	12 - 0
		Stud	-	10 - 11	13 - 1	-	10 - 0	12 - 0
24		SS	8 - 3	12 - 9	16 - 7	7 - 10	12 - 1	15 - 8
		No.1	8 - 1	12 - 6	16 - 3	-	11 - 10	15 - 4
		No.2	7 - 11	11 - 6	14 - 3	-	10 - 7	13 - 1
		No. 3	-	8 - 6	10 - 6	-	7 - 10	9 - 8
		Stud	-	8 - 9	10 - 6	-	8 - 1	9 - 8
12	Norway Spruce – Estonia, Latvia, & Lithuania	SS	10 - 3	15 - 11	20 - 0†	9 - 9	15 - 1	19 - 7
		No.1	9 - 10	15 - 2	19 - 9	9 - 3	14 - 4	18 - 1
		No.2	9 - 7	14 - 10	19 - 1	9 - 1	14 - 0	17 - 6
		No. 3	8 - 0	11 - 4	14 - 0	-	10 - 5	12 - 11
		Stud	8 - 1	11 - 9	14 - 0	-	10 - 10	12 - 11
16		SS	9 - 4	14 - 5	18 - 9	8 - 10	13 - 7	17 - 8
		No.1	8 - 11	13 - 8	16 - 11	8 - 5	12 - 7	15 - 6
		No.2	8 - 8	13 - 3	16 - 5	8 - 2	12 - 2	15 - 0
		No. 3	-	9 - 9	12 - 0	-	8 - 11	11 - 0
		Stud	-	10 - 1	12 - 0	-	9 - 3	11 - 0
24		SS	8 - 1	12 - 6	16 - 3	-	11 - 10	15 - 0
		No.1	-	11 - 0	13 - 7	-	10 - 1	12 - 6
		No.2	-	10 - 8	13 - 2	-	9 - 9	12 - 1
		No. 3	-	7 - 10	9 - 8	-	-	8 - 11
		Stud	-	8 - 1	9 - 8	-	-	8 - 11

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	19 - 4	20 - 0†	12 - 11	18 - 4	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 57	19 - 7	20 - 0†	12 - 9	18 - 7	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 8	20 - 0†	20 - 0†	13 - 3	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 5	20 - 0†	20 - 0†	12 - 11	20 - 0†	20 - 0†
		No.2	13 - 8	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†	12 - 8	19 - 7	20 - 0†	12 - 3	19 - 0	20 - 0†
		No. 3	13 - 1	18 - 7	20 - 0†	12 - 4	17 - 6	20 - 0†	11 - 8	16 - 7	20 - 0†	11 - 1	15 - 9	19 - 5
		Stud	12 - 11	18 - 10	20 - 0†	12 - 2	17 - 9	20 - 0†	11 - 6	16 - 10	20 - 0†	10 - 11	15 - 11	19 - 5
24		SS	12 - 10	19 - 10	20 - 0†	12 - 4	19 - 1	20 - 0†	11 - 11	18 - 5	20 - 0†	11 - 6	17 - 10	20 - 0†
		No.1	12 - 6	19 - 4	20 - 0†	12 - 0	18 - 8	20 - 0†	11 - 7	18 - 0	20 - 0†	11 - 3	17 - 4	20 - 0†
		No.2	11 - 10	18 - 4	20 - 0†	11 - 5	17 - 8	20 - 0†	11 - 0	17 - 0	20 - 0†	10 - 8	16 - 6	20 - 0†
		No. 3	10 - 6	14 - 11	18 - 5	9 - 11	14 - 1	17 - 5	9 - 5	13 - 4	16 - 6	8 - 11	12 - 8	15 - 8
		Stud	10 - 5	15 - 2	18 - 5	9 - 10	14 - 3	17 - 5	9 - 3	13 - 6	16 - 6	8 - 10	12 - 10	15 - 8
12	Norway Spruce – Germany, NE France, & Switzerland	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	20 - 0†	20 - 0†	13 - 2	19 - 8	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 5	20 - 0†	20 - 0†	12 - 11	20 - 0†	20 - 0†
		No.2	13 - 8	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†	12 - 8	19 - 7	20 - 0†	12 - 3	19 - 0	20 - 0†
		No. 3	13 - 3	19 - 10	20 - 0†	12 - 9	18 - 9	20 - 0†	12 - 4	17 - 9	20 - 0†	11 - 10	16 - 10	20 - 0†
		Stud	13 - 3	20 - 0†	20 - 0†	12 - 9	19 - 2	20 - 0†	12 - 4	18 - 1	20 - 0†	11 - 9	17 - 2	20 - 0†
24		SS	13 - 1	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†	12 - 2	18 - 10	20 - 0†	11 - 9	18 - 2	20 - 0†
		No.1	12 - 6	19 - 4	20 - 0†	12 - 0	18 - 8	20 - 0†	11 - 7	18 - 0	20 - 0†	11 - 3	17 - 4	20 - 0†
		No.2	11 - 10	18 - 4	20 - 0†	11 - 5	17 - 8	20 - 0†	11 - 0	17 - 0	20 - 0†	10 - 8	16 - 6	20 - 0†
		No. 3	11 - 3	16 - 0	19 - 9	10 - 7	15 - 1	18 - 8	10 - 0	14 - 3	17 - 8	9 - 6	13 - 6	16 - 9
		Stud	11 - 2	16 - 4	19 - 9	10 - 7	15 - 5	18 - 8	10 - 0	14 - 7	17 - 8	9 - 6	13 - 10	16 - 9

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.1	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		No.2	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No. 3	12 - 3	17 - 6	20 - 0 ⁺	11 - 9	16 - 8	20 - 0 ⁺	11 - 2	15 - 11	19 - 8	10 - 3	14 - 7	18 - 1
		Stud	12 - 2	17 - 8	20 - 0 ⁺	11 - 7	16 - 10	20 - 0 ⁺	11 - 1	16 - 1	19 - 8	10 - 2	14 - 10	18 - 1
16		SS	12 - 10	19 - 10	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No. 3	10 - 6	15 - 0	18 - 6	10 - 1	14 - 3	17 - 8	9 - 7	13 - 8	16 - 10	8 - 10	12 - 6	15 - 6
		Stud	10 - 5	15 - 2	18 - 6	9 - 11	14 - 6	17 - 8	9 - 6	13 - 10	16 - 10	8 - 8	12 - 8	15 - 6
24		SS	11 - 2	17 - 3	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺	10 - 6	16 - 2	20 - 0 ⁺	9 - 11	15 - 4	19 - 11
		No.1	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	15 - 0	19 - 4
		No.2	10 - 4	15 - 10	19 - 7	10 - 0	15 - 1	18 - 8	9 - 8	14 - 5	17 - 10	9 - 2	13 - 3	16 - 4
		No. 3	8 - 6	12 - 0	14 - 11	8 - 1	11 - 6	14 - 2	-	11 - 0	13 - 7	-	10 - 1	12 - 5
		Stud	8 - 5	12 - 2	14 - 11	8 - 0	11 - 8	14 - 2	-	11 - 1	13 - 7	-	10 - 2	12 - 5
12	Norway Spruce – Germany, NE France, & Switzerland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.1	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		No.2	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No. 3	12 - 9	18 - 8	20 - 0 ⁺	12 - 4	17 - 10	20 - 0 ⁺	12 - 0	17 - 0	20 - 0 ⁺	11 - 0	15 - 7	19 - 4
		Stud	12 - 9	19 - 1	20 - 0 ⁺	12 - 4	18 - 2	20 - 0 ⁺	11 - 11	17 - 5	20 - 0 ⁺	10 - 11	15 - 11	19 - 4
16		SS	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No. 3	11 - 3	16 - 0	19 - 9	10 - 9	15 - 3	18 - 10	10 - 3	14 - 7	18 - 0	9 - 5	13 - 5	16 - 6
		Stud	11 - 3	16 - 4	19 - 9	10 - 8	15 - 7	18 - 10	10 - 3	14 - 11	18 - 0	9 - 5	13 - 8	16 - 6
24		SS	11 - 5	17 - 7	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No.1	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	15 - 0	19 - 0
		No.2	10 - 4	15 - 11	20 - 0 ⁺	10 - 0	15 - 5	20 - 0 ⁺	9 - 8	15 - 0	19 - 4	9 - 2	14 - 2	17 - 9
		No. 3	9 - 1	12 - 10	15 - 11	8 - 8	12 - 3	15 - 2	8 - 3	11 - 9	14 - 6	-	10 - 9	13 - 4
		Stud	9 - 0	13 - 2	15 - 11	8 - 7	12 - 6	15 - 2	8 - 3	12 - 0	14 - 6	-	11 - 0	13 - 4

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 4	19 - 0	9 - 8	14 - 5	17 - 10
		No. 3	9 - 6	13 - 6	16 - 8	8 - 10	12 - 6	15 - 6	8 - 3	11 - 8	14 - 5	-	10 - 11	13 - 6
		Stud	9 - 5	13 - 8	16 - 8	8 - 9	12 - 8	15 - 6	8 - 2	11- 10	14 - 5	-	11 - 1	13 - 6
16		SS	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	19 - 10	9 - 6	14 - 8	19 - 0
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	14 - 11	19 - 2	9 - 3	14 - 4	18 - 0
		No.2	10 - 0	15 - 2	18 - 9	9 - 7	14 - 1	17 - 5	9 - 2	13 - 2	16 - 3	8 - 8	12 - 4	15 - 3
		No. 3	8 - 2	11 - 7	14 - 3	-	10 - 9	13 - 3	-	10 - 0	12 - 5	-	9 - 5	11 - 7
		Stud	8 - 1	11 - 9	14 - 3	-	10 - 11	13 - 3	-	10 - 2	12 - 5	-	9 - 6	11 - 7
24		SS	9 - 5	14 - 7	18 - 11	9 - 0	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3	8 - 3	12 - 9	16 - 6
		No.1	9 - 2	14 - 2	17 - 10	8 - 9	13 - 5	16 - 7	8 - 4	12 - 6	15 - 5	8 - 0	11 - 6	14 - 3
		No.2	8 - 7	12 - 3	15 - 1	8 - 0	11 - 4	14 - 0	-	10 - 7	13 - 1	-	9 - 11	12 - 3
		No. 3	-	9 - 4	11 - 6	-	8 - 8	10 - 8	-	8 - 1	10 - 0	-	-	9 - 4
		Stud	-	9 - 5	11 - 6	-	8 - 9	10 - 8	-	8 - 2	10 - 0	-	-	9 - 4
12	Norway Spruce – Germany, NE France, & Switzerland	SS	12 - 3	19 - 0	20 - 0†	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 7	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 3
		No. 3	10 - 2	14 - 5	17 - 10	9 - 5	13 - 5	16 - 7	8 - 10	12 - 6	15 - 5	8 - 3	11 - 8	14 - 6
		Stud	10 - 1	14 - 9	17 - 10	9 - 5	13 - 8	16 - 7	8 - 9	12 - 9	15 - 5	8 - 3	12 - 0	14 - 6
16		SS	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	14 - 11	18 - 11	9 - 3	14 - 4	17 - 8
		No.2	10 - 0	15 - 6	20 - 0†	9 - 7	14 - 9	18 - 11	9 - 2	14 - 2	17 - 8	8 - 9	13 - 4	16 - 6
		No. 3	8 - 8	12 - 4	15 - 3	8 - 1	11 - 6	14 - 2	-	10 - 9	13 - 3	-	10 - 0	12 - 5
		Stud	8 - 8	12 - 7	15 - 3	8 - 1	11 - 9	14 - 2	-	10 - 11	13 - 3	-	10 - 3	12 - 5
24		SS	9 - 7	14 - 11	19 - 4	9 - 2	14 - 2	18 - 5	8 - 9	13 - 7	17 - 8	8 - 5	13 - 0	16 - 11
		No.1	9 - 2	14 - 2	17 - 6	8 - 9	13 - 2	16 - 3	8 - 4	12 - 4	15 - 2	8 - 0	11 - 6	14 - 3
		No.2	8 - 8	13 - 3	16 - 4	8 - 4	12 - 4	15 - 2	7 - 11	11 - 6	14 - 2	-	10 - 9	13 - 3
		No. 3	-	9 - 11	12 - 3	-	9 - 3	11 - 5	-	8 - 7	10 - 8	-	8 - 1	10 - 0
		Stud	-	10 - 2	12 - 3	-	9 - 5	11 - 5	-	8 - 10	10 - 8	-	8 - 3	10 - 0

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Finland	SS	10 - 1	15 - 7	20 - 0 [†]	9 - 6	14 - 8	19 - 2
		No.1	9 - 10	15 - 2	19 - 9	9 - 3	14 - 4	18 - 1
		No.2	9 - 4	13 - 6	16 - 9	8 - 9	12 - 5	15 - 4
		No. 3	-	10 - 4	12 - 9	-	9 - 5	11 - 8
		Stud	-	10 - 5	12 - 9	-	9 - 7	11 - 8
16		SS	9 - 1	14 - 1	18 - 4	8 - 7	13 - 4	17 - 4
		No.1	8 - 11	13 - 8	16 - 11	8 - 5	12 - 4	15 - 6
		No.2	8 - 2	11 - 7	14 - 4	-	10 - 8	13 - 2
		No. 3	-	8 - 10	10 - 11	-	8 - 1	10 - 0
		Stud	-	8 - 11	10 - 11	-	8 - 3	10 - 0
24		SS	7 - 11	12 - 3	15 - 11	-	11 - 7	15 - 0
		No.1	-	11 - 0	13 - 7	-	10 - 1	12 - 6
		No.2	-	9 - 4	11 - 7	-	8 - 7	10 - 7
		No. 3	-	-	8 - 9	-	-	8 - 1
		Stud	-	-	8 - 9	-	-	8 - 1
12	Norway Spruce – Germany, NE France, & Switzerland	SS	10 - 3	15 - 11	20 - 0 [†]	9 - 9	15 - 1	19 - 7
		No.1	9 - 10	15 - 2	19 - 5	9 - 3	14 - 4	17 - 10
		No.2	9 - 4	14 - 5	18 - 2	8 - 10	13 - 5	16 - 8
		No. 3	7 - 9	11 - 0	13 - 7	-	10 - 1	12 - 6
		Stud	-	11 - 3	13 - 7	-	10 - 4	12 - 6
16		SS	9 - 4	14 - 5	18 - 9	8 - 10	13 - 7	17 - 8
		No.1	8 - 11	13 - 6	16 - 8	8 - 5	12 - 4	15 - 3
		No.2	8 - 5	12 - 7	15 - 6	8 - 0	11 - 6	14 - 3
		No. 3	-	9 - 5	11 - 8	-	8 - 8	10 - 8
		Stud	-	9 - 8	11 - 8	-	8 - 10	10 - 8
24		SS	8 - 1	12 - 6	16 - 3	-	11 - 10	15 - 0
		No.1	-	10 - 10	13 - 5	-	9 - 11	12 - 4
		No.2	-	10 - 1	12 - 6	-	9 - 3	11 - 6
		No. 3	-	-	9 - 5	-	-	8 - 7
		Stud	-	7 - 9	9 - 5	-	-	8 - 7

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No. 3	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	19 - 11	20 - 0 ⁺	12 - 8	18 - 10	20 - 0 ⁺	12 - 3	17 - 10	20 - 0 ⁺
		Stud	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	18 - 11	20 - 0 ⁺	12 - 3	18 - 0	20 - 0 ⁺
24		SS	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No.1	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺
		No.2	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺
		No. 3	11 - 10	16 - 11	20 - 0 ⁺	11 - 3	16 - 0	19 - 9	10 - 8	15 - 2	18 - 9	10 - 1	14 - 4	17 - 9
		Stud	11 - 8	17 - 1	20 - 0 ⁺	11 - 1	16 - 1	19 - 9	10 - 5	15 - 3	18 - 9	9 - 11	14 - 6	17 - 9
12	Norway Spruce – Romania & Ukraine	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 2	19 - 8	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No. 3	13 - 3	19 - 10	20 - 0 ⁺	12 - 9	18 - 9	20 - 0 ⁺	12 - 4	17 - 9	20 - 0 ⁺	11 - 10	16 - 10	20 - 0 ⁺
		Stud	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 2	20 - 0 ⁺	12 - 4	18 - 1	20 - 0 ⁺	11 - 9	17 - 2	20 - 0 ⁺
24		SS	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 8	20 - 0 ⁺	11 - 7	18 - 0	20 - 0 ⁺	11 - 3	17 - 4	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺	11 - 0	17 - 0	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No. 3	11 - 3	16 - 0	19 - 9	10 - 7	15 - 1	18 - 8	10 - 0	14 - 3	17 - 8	9 - 6	13 - 6	16 - 9
		Stud	11 - 2	16 - 4	19 - 9	10 - 7	15 - 5	18 - 8	10 - 0	14 - 7	17 - 8	9 - 6	13 - 10	16 - 9

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No. 3	13 - 1	19 - 10	20 - 0 ⁺	12 - 9	18 - 11	20 - 0 ⁺	12 - 4	18 - 1	20 - 0 ⁺	11 - 8	16 - 7	20 - 0 ⁺
		Stud	13 - 1	19 - 11	20 - 0 ⁺	12 - 9	19 - 0	20 - 0 ⁺	12 - 4	18 - 2	20 - 0 ⁺	11 - 5	16 - 8	20 - 0 ⁺
16		SS	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 11	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺
		No.1	12 - 10	19 - 10	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺
		No.2	12 - 2	18 - 11	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No. 3	11 - 10	17 - 0	20 - 0 ⁺	11 - 5	16 - 2	20 - 0 ⁺	10 - 11	15 - 6	19 - 2	10 - 0	14 - 2	17 - 7
		Stud	11 - 9	17 - 1	20 - 0 ⁺	11 - 2	16 - 4	20 - 0 ⁺	10 - 8	15 - 7	19 - 2	9 - 10	14 - 4	17 - 7
24		SS	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No.1	11 - 2	17 - 3	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺	10 - 6	16 - 2	20 - 0 ⁺	9 - 11	15 - 4	19 - 11
		No.2	10 - 7	16 - 5	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺	10 - 0	15 - 5	20 - 0 ⁺	9 - 5	14 - 7	18 - 8
		No. 3	9 - 7	13 - 8	16 - 11	9 - 2	13 - 0	16 - 1	8 - 9	12 - 5	15 - 5	8 - 1	11 - 5	14 - 1
		Stud	9 - 5	13 - 9	16 - 11	9 - 0	13 - 1	16 - 1	8 - 7	12 - 6	15 - 5	7 - 11	11 - 6	14 - 1
12	Norway Spruce – Romania & Ukraine	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.1	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		No.2	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No. 3	12 - 9	18 - 8	20 - 0 ⁺	12 - 4	17 - 10	20 - 0 ⁺	12 - 0	17 - 0	20 - 0 ⁺	11 - 0	15 - 7	19 - 4
		Stud	12 - 9	19 - 1	20 - 0 ⁺	12 - 4	18 - 2	20 - 0 ⁺	11 - 11	17 - 5	20 - 0 ⁺	10 - 11	15 - 11	19 - 4
16		SS	12 - 10	19 - 10	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No. 3	11 - 3	16 - 0	19 - 9	10 - 9	15 - 3	18 - 10	10 - 3	14 - 7	18 - 0	9 - 5	13 - 5	16 - 6
		Stud	11 - 3	16 - 4	19 - 9	10 - 8	15 - 7	18 - 10	10 - 3	14 - 11	18 - 0	9 - 5	13 - 8	16 - 6
24		SS	11 - 2	17 - 3	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺	10 - 6	16 - 2	20 - 0 ⁺	9 - 11	15 - 4	19 - 11
		No.1	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	15 - 0	19 - 4
		No.2	10 - 4	15 - 11	20 - 0 ⁺	10 - 0	15 - 5	20 - 0 ⁺	9 - 8	15 - 0	19 - 6	9 - 2	14 - 2	18 - 1
		No. 3	9 - 1	12 - 10	15 - 11	8 - 8	12 - 3	15 - 2	8 - 3	11 - 9	14 - 6	-	10 - 9	13 - 4
		Stud	9 - 0	13 - 2	15 - 11	8 - 7	12 - 6	15 - 2	8 - 3	12 - 0	14 - 6	-	11 - 0	13 - 4

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	12 - 9	19 - 9	20 - 0†	12 - 2	18 - 10	20 - 0†	11 - 8	18 - 0	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.1	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.2	11 - 5	17 - 8	20 - 0†	10 - 10	16 - 10	20 - 0†	10 - 5	16 - 1	20 - 0†	9 - 11	15 - 5	20 - 0†
		No. 3	10 - 9	15 - 4	18 - 11	10 - 0	14 - 2	17 - 7	9 - 4	13 - 3	16 - 5	8 - 9	12 - 5	15 - 4
		Stud	10 - 7	15 - 5	18 - 11	9 - 10	14 - 4	17 - 7	9 - 2	13 - 4	16 - 5	8 - 7	12 - 6	15 - 4
16		SS	11 - 7	17 - 10	20 - 0†	11 - 0	17 - 0	20 - 0†	10 - 6	16 - 3	20 - 0†	10 - 1	15 - 7	20 - 0†
		No.1	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	19 - 10	9 - 6	14 - 8	19 - 0
		No.2	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 7	9 - 0	13 - 11	17 - 5
		No. 3	9 - 3	13 - 1	16 - 3	8 - 7	12 - 2	15 - 1	8 - 0	11 - 4	14 - 1	-	10 - 8	13 - 2
		Stud	9 - 1	13 - 2	16 - 3	8 - 5	12 - 3	15 - 1	7 - 10	11 - 5	14 - 1	-	10 - 9	13 - 2
24		SS	10 - 0	15 - 6	20 - 0†	9 - 7	14 - 9	19 - 3	9 - 2	14 - 2	18 - 4	8 - 9	13 - 7	17 - 7
		No.1	9 - 5	14 - 7	18 - 11	9 - 0	13 - 10	18 - 0	8 - 7	13 - 3	16 - 10	8 - 3	12 - 9	15 - 9
		No.2	8 - 11	13 - 10	17 - 3	8 - 6	12 - 11	16 - 0	8 - 2	12 - 1	14 - 11	7 - 10	11 - 4	14 - 0
		No. 3	-	10 - 7	13 - 1	-	9 - 10	12 - 1	-	9 - 2	11 - 4	-	8 - 7	10 - 7
		Stud	-	10 - 7	13 - 1	-	9 - 10	12 - 1	-	9 - 3	11 - 4	-	8 - 8	10 - 7
12	Norway Spruce – Romania & Ukraine	SS	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No. 3	10 - 2	14 - 5	17 - 10	9 - 5	13 - 5	16 - 7	8 - 10	12 - 6	15 - 5	8 - 3	11 - 8	14 - 6
		Stud	10 - 1	14 - 9	17 - 10	9 - 5	13 - 8	16 - 7	8 - 9	12 - 9	18 - 2	8 - 3	12 - 0	14 - 6
16		SS	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	19 - 10	9 - 6	14 - 8	19 - 0
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	14 - 11	19 - 2	9 - 3	14 - 4	18 - 0
		No.2	10 - 0	15 - 6	20 - 0†	9 - 7	14 - 9	19 - 3	9 - 2	14 - 2	17 - 11	8 - 9	13 - 7	16 - 10
		No. 3	8 - 8	12 - 4	15 - 3	8 - 1	11 - 6	14 - 2	-	10 - 9	13 - 3	-	10 - 0	12 - 5
		Stud	8 - 8	12 - 7	15 - 3	8 - 1	11 - 9	14 - 2	-	10 - 11	13 - 3	-	10 - 3	12 - 5
24		SS	9 - 5	14 - 7	18 - 11	9 - 0	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3	8 - 3	12 - 9	16 - 6
		No.1	9 - 2	14 - 2	17 - 10	8 - 9	13 - 5	16 - 7	8 - 4	12 - 6	15 - 5	8 - 0	11 - 8	14 - 6
		No.2	8 - 8	13 - 6	16 - 8	8 - 4	12 - 6	15 - 6	7 - 11	11 - 8	14 - 5	-	10 - 11	13 - 6
		No. 3	-	9 - 11	12 - 3	-	9 - 3	11 - 5	-	8 - 7	10 - 8	-	8 - 1	10 - 0
		Stud	-	10 - 2	12 - 3	-	9 - 5	11 - 5	-	8 - 10	10 - 8	-	8 - 3	10 - 0

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Norway	SS	10 - 9	16 - 7	20 - 0†	10 - 2	15 - 8	20 - 0†
		No.1	10 - 1	15 - 7	20 - 0†	9 - 6	14 - 8	19 - 2
		No.2	9 - 7	14 - 10	19 - 1	9 - 1	14 - 0	17 - 6
		No. 3	8 - 3	11 - 8	14 - 5	-	10 - 9	13 - 3
		Stud	8 - 1	11 - 9	14 - 5	-	10 - 10	13 - 3
16		SS	9 - 8	15 - 0	19 - 6	9 - 2	14 - 2	18 - 5
		No.1	9 - 1	14 - 1	18 - 4	8 - 7	13 - 4	16 - 11
		No.2	8 - 8	13 - 3	16 - 5	8 - 2	12 - 2	15 - 0
		No. 3	-	10 - 0	12 - 5	-	9 - 2	11 - 4
		Stud	-	10 - 1	12 - 5	-	9 - 3	11 - 4
24		SS	8 - 5	13 - 0	16 - 11	8 - 0	12 - 4	16 - 0
		No.1	7 - 11	12 - 0	14 - 10	-	11 - 0	13 - 8
		No.2	-	10 - 8	13 - 2	-	9 - 9	12 - 1
		No. 3	-	8 - 1	10 - 0	-	-	9 - 2
		Stud	-	8 - 1	10 - 0	-	-	9 - 2
12	Norway Spruce – Romania & Ukraine	SS	10 - 1	15 - 7	20 - 0†	9 - 6	14 - 8	19 - 2
		No.1	9 - 10	15 - 2	19 - 9	9 - 3	14 - 4	18 - 1
		No.2	9 - 4	14 - 5	18 - 6	8 - 10	13 - 7	16 - 11
		No. 3	7 - 9	11 - 0	13 - 7	-	10 - 1	12 - 6
		Stud	-	11 - 3	13 - 7	-	10 - 4	12 - 6
16		SS	9 - 1	14 - 1	18 - 4	8 - 7	13 - 4	17 - 4
		No.1	8 - 11	13 - 8	16 - 11	8 - 5	12 - 7	15 - 6
		No.2	8 - 5	12 - 10	15 - 10	8 - 0	11 - 9	14 - 6
		No. 3	-	9 - 5	11 - 8	-	8 - 8	10 - 8
		Stud	-	9 - 8	11 - 8	-	8 - 10	10 - 8
24		SS	7 - 11	12 - 3	15 - 11	-	11 - 7	15 - 0
		No.1	-	11 - 0	13 - 7	-	10 - 1	12 - 6
		No.2	-	10 - 4	12 - 9	-	9 - 5	11 - 8
		No. 3	-	-	9 - 5	-	7 - 0	8 - 7
		Stud	-	7 - 9	9 - 5	-	-	8 - 7

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 4	19 - 0	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	19 - 7	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No. 3	13 - 6	19 - 3	20 - 0 ⁺	12 - 9	18 - 2	20 - 0 ⁺	12 - 1	17 - 2	20 - 0 ⁺	11 - 6	16 - 3	20 - 0 ⁺
		Stud	13 - 7	19 - 10	20 - 0 ⁺	12 - 10	18 - 8	20 - 0 ⁺	12 - 1	17 - 8	20 - 0 ⁺	11 - 6	16 - 9	20 - 0 ⁺
24		SS	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 8	20 - 0 ⁺	11 - 7	18 - 0	20 - 0 ⁺	11 - 3	17 - 4	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺	11 - 0	17 - 0	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No. 3	10 - 11	15 - 5	19 - 1	10 - 3	14 - 7	18 - 0	9 - 9	13 - 10	17 - 1	9 - 3	13 - 1	16 - 2
		Stud	10 - 11	15 - 11	19 - 1	10 - 4	15 - 0	18 - 0	9 - 9	14 - 3	17 - 1	9 - 3	13 - 6	16 - 2
12	Scots Pine - Austria, The Czech Republic, Romania, & Ukraine	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	19 - 4	20 - 0 ⁺	12 - 10	18 - 3	20 - 0 ⁺	12 - 2	17 - 4	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	19 - 7	20 - 0 ⁺	12 - 8	18 - 6	20 - 0 ⁺	12 - 1	17 - 7	20 - 0 ⁺
24		SS	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	19 - 11	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No.1	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No.2	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 8	20 - 0 ⁺	11 - 7	18 - 0	20 - 0 ⁺	11 - 3	17 - 4	20 - 0 ⁺
		No. 3	11 - 7	16 - 6	20 - 0 ⁺	10 - 11	15 - 6	19 - 3	10 - 4	14 - 8	18 - 2	9 - 10	13 - 11	17 - 3
		Stud	11 - 5	16 - 8	20 - 0 ⁺	10 - 10	15 - 9	19 - 3	10 - 3	14 - 11	18 - 2	9 - 9	14 - 2	17 - 3

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.1	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		No.2	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No. 3	12 - 9	18 - 1	20 - 0 ⁺	12 - 1	17 - 3	20 - 0 ⁺	11 - 7	16 - 6	20 - 0 ⁺	10 - 8	15 - 1	18 - 8
		Stud	12 - 9	18 - 8	20 - 0 ⁺	12 - 2	17 - 9	20 - 0 ⁺	11 - 8	17 - 0	20 - 0 ⁺	10 - 8	15 - 7	18 - 8
16		SS	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No. 3	10 - 11	15 - 6	19 - 2	10 - 5	14 - 9	18 - 3	9 - 11	14 - 1	17 - 5	9 - 1	12 - 11	16 - 0
		Stud	10 - 11	16 - 0	19 - 2	10 - 5	15 - 3	18 - 3	10 - 0	14 - 6	17 - 5	9 - 2	13 - 4	16 - 0
24		SS	11 - 5	17 - 7	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No.1	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	15 - 0	19 - 0
		No.2	10 - 4	15 - 11	20 - 0 ⁺	10 - 0	15 - 5	19 - 5	9 - 8	15 - 0	18 - 7	9 - 2	13 - 10	17 - 1
		No. 3	8 - 9	12 - 6	15 - 5	8 - 4	11 - 11	14 - 8	8 - 0	11 - 4	14 - 0	-	10 - 5	12 - 11
		Stud	8 - 10	12 - 10	15 - 5	8 - 5	12 - 3	14 - 8	8 - 0	11 - 8	14 - 0	-	10 - 9	12 - 11
12	Scots Pine - Austria, The Czech Republic, Romania, & Ukraine	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.2	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		No. 3	13 - 6	19 - 3	20 - 0 ⁺	12 - 11	18 - 4	20 - 0 ⁺	12 - 4	17 - 6	20 - 0 ⁺	11 - 4	16 - 1	19 - 11
		Stud	13 - 5	19 - 6	20 - 0 ⁺	12 - 9	18 - 7	20 - 0 ⁺	12 - 2	17 - 9	20 - 0 ⁺	11 - 2	16 - 4	19 - 11
16		SS	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺
		No.1	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No.2	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No. 3	11 - 7	16 - 6	20 - 0 ⁺	11 - 1	15 - 9	19 - 5	10 - 7	15 - 0	18 - 7	9 - 9	13 - 10	17 - 1
		Stud	11 - 6	16 - 9	20 - 0 ⁺	10 - 11	15 - 11	19 - 5	10 - 5	15 - 3	18 - 7	9 - 7	14 - 0	17 - 1
24		SS	11 - 8	18 - 0	20 - 0 ⁺	11 - 3	17 - 5	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.1	11 - 5	17 - 7	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	19 - 11
		No.2	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	14 - 10	18 - 4
		No. 3	9 - 4	13 - 3	16 - 5	8 - 11	12 - 8	15 - 8	8 - 6	12 - 1	14 - 11	7 - 10	11 - 1	13 - 9
		Stud	9 - 3	13 - 5	16 - 5	8 - 10	12 - 10	15 - 8	8 - 5	12 - 3	14 - 11	-	11 - 3	13 - 9

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	12 - 3	19 - 0	20 - 0†	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 7	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	19 - 10	9 - 8	15 - 0	18 - 7
		No. 3	9 - 10	13 - 11	17 - 3	9 - 2	12 - 11	16 - 0	8 - 6	12 - 1	14 - 11	8 - 0	11 - 4	14 - 0
		Stud	9 - 10	14 - 5	17 - 3	9 - 2	13 - 4	16 - 0	8 - 7	12 - 6	14 - 11	8 - 0	11 - 8	14 - 0
16		SS	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	14 - 11	18 - 11	9 - 3	14 - 4	17 - 8
		No.2	10 - 0	15 - 6	19 - 7	9 - 7	14 - 8	18 - 2	9 - 2	13 - 9	17 - 0	8 - 9	12 - 10	15 - 11
		No. 3	8 - 5	12 - 0	14 - 9	7 - 10	11 - 1	13 - 9	-	10 - 4	12 - 10	-	9 - 9	12 - 0
		Stud	8 - 6	12 - 4	14 - 9	7 - 10	11 - 5	13 - 9	-	10 - 8	12 - 10	-	10 - 0	12 - 0
24		SS	9 - 7	14 - 11	19 - 4	9 - 2	14 - 2	18 - 5	8 - 9	13 - 7	17 - 8	8 - 5	13 - 0	16 - 11
		No.1	9 - 2	14 - 2	17 - 6	8 - 9	13 - 2	16 - 3	8 - 4	12 - 4	15 - 2	8 - 0	11 - 6	14 - 3
		No.2	8 - 8	12 - 9	15 - 9	8 - 4	11 - 10	14 - 7	7 - 9	11 - 1	13 - 8	-	10 - 4	12 - 9
		No. 3	-	9 - 8	11 - 11	-	8 - 11	11 - 1	-	8 - 4	10 - 4	-	7 - 10	9 - 8
		Stud	-	9 - 11	11 - 11	-	9 - 3	11 - 1	-	8 - 7	10 - 4	-	8 - 1	9 - 8
12	Scots Pine - Austria, The Czech Republic, Romania, & Ukraine	SS	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 5	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†
		No.1	12 - 3	19 - 0	20 - 0†	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 7	20 - 0†
		No.2	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0
		No. 3	10 - 6	14 - 10	18 - 5	9 - 9	13 - 10	17 - 1	9 - 1	12 - 11	15 - 11	8 - 6	12 - 1	14 - 11
		Stud	10 - 4	15 - 1	18 - 5	9 - 7	14 - 0	17 - 1	9 - 0	13 - 1	15 - 11	8 - 5	12 - 3	14 - 11
16		SS	11 - 4	17 - 6	20 - 0†	10 - 9	16 - 8	20 - 0†	10 - 4	15 - 11	20 - 0†	9 - 11	15 - 4	19 - 11
		No.1	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	19 - 10	9 - 8	15 - 0	18 - 7
		No.2	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	19 - 7	9 - 8	14 - 9	18 - 3	9 - 3	13 - 10	17 - 1
		No. 3	9 - 0	12 - 9	15 - 9	8 - 4	11 - 10	14 - 7	7 - 9	11 - 1	13 - 8	-	10 - 4	12 - 9
		Stud	8 - 10	12 - 11	15 - 9	8 - 3	12 - 0	14 - 7	-	11 - 2	13 - 8	-	10 - 6	12 - 9
24		SS	9 - 10	15 - 2	19 - 9	9 - 4	14 - 6	18 - 10	8 - 11	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3
		No.1	9 - 7	14 - 10	18 - 5	9 - 2	13 - 10	17 - 1	8 - 9	12 - 11	15 - 11	8 - 5	12 - 1	14 - 11
		No.2	9 - 2	13 - 9	17 - 0	8 - 9	12 - 9	15 - 9	8 - 4	11 - 11	14 - 8	7 - 10	11 - 2	13 - 9
		No. 3	-	10 - 3	12 - 8	-	9 - 6	11 - 9	-	8 - 11	11 - 0	-	8 - 4	10 - 4
		Stud	-	10 - 5	12 - 8	-	9 - 8	11 - 9	-	9 - 0	11 - 0	-	8 - 5	10 - 4

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Norway Spruce - Sweden	SS	10 - 3	15 - 11	20 - 0†	9 - 9	15 - 1	19 - 7
		No.1	9 - 10	15 - 2	19 - 5	9 - 3	14 - 4	17 - 10
		No.2	9 - 4	14 - 1	17 - 5	8 - 10	12 - 11	16 - 0
		No. 3	-	10 - 8	13 - 2	-	9 - 9	12 - 1
		Stud	-	11 - 0	13 - 2	-	10 - 1	12 - 1
16		SS	9 - 4	14 - 5	18 - 9	8 - 10	13 - 7	17 - 8
		No.1	8 - 11	13 - 6	16 - 8	8 - 5	12 - 4	15 - 3
		No.2	8 - 5	12 - 1	14 - 11	7 - 10	11 - 1	13 - 9
		No. 3	-	9 - 2	11 - 4	-	8 - 5	10 - 4
		Stud	-	9 - 5	11 - 4	-	8 - 8	10 - 4
24		SS	8 - 1	12 - 6	16 - 3	-	11 - 10	15 - 4
		No.1	-	10 - 10	13 - 5	-	9 - 11	12 - 4
		No.2	-	9 - 9	12 - 0	-	8 - 11	11 - 0
		No. 3	-	-	9 - 1	-	-	8 - 4
		Stud	-	-	9 - 1	-	-	8 - 4
12	Scots Pine – Austria, The Czech Republic, Romania, & Ukraine	SS	10 - 6	16 - 3	20 - 0†	9 - 11	15 - 4	20 - 0
		No.1	10 - 3	15 - 11	20 - 0†	9 - 9	15 - 1	18 - 8
		No.2	9 - 10	15 - 2	18 - 9	9 - 3	13 - 11	17 - 3
		No. 3	8 - 0	11 - 4	14 - 0	-	10 - 5	12 - 11
		Stud	7 - 11	11 - 6	14 - 0	-	10 - 7	12 - 11
16		SS	9 - 6	14 - 8	19 - 1	9 - 0	13 - 11	18 - 1
		No.1	9 - 4	14 - 1	17 - 5	8 - 10	12 - 11	16 - 0
		No.2	8 - 11	13 - 0	16 - 1	8 - 5	11 - 11	14 - 9
		No. 3	-	9 - 9	12 - 0	-	8 - 11	11 - 0
		Stud	-	9 - 10	12 - 0	-	9 - 1	11 - 0
24		SS	8 - 3	12 - 9	16 - 7	7 - 10	12 - 1	15 - 8
		No.1	8 - 0	11 - 4	14 - 0	-	10 - 5	12 - 11
		No.2	-	10 - 6	12 - 11	-	9 - 7	11 - 11
		No. 3	-	7 - 10	9 - 8	-	-	8 - 11
		Stud	-	7 - 11	9 - 8	-	-	8 - 11

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 2	19 - 8	20 - 0 ⁺
		Stud	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
		No.2	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No. 3	13 - 3	19 - 10	20 - 0 ⁺	12 - 9	18 - 9	20 - 0 ⁺	12 - 4	17 - 9	20 - 0 ⁺	11 - 10	16 - 10	20 - 0 ⁺
		Stud	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 2	20 - 0 ⁺	12 - 4	18 - 1	20 - 0 ⁺	11 - 9	17 - 2	20 - 0 ⁺
24		SS	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 8	20 - 0 ⁺	11 - 7	18 - 0	20 - 0 ⁺	11 - 3	17 - 4	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺	11 - 0	17 - 0	20 - 0 ⁺	10 - 8	16 - 6	20 - 0 ⁺
		No. 3	11 - 3	16 - 0	19 - 9	10 - 7	15 - 1	18 - 8	10 - 0	14 - 3	17 - 8	9 - 6	13 - 6	16 - 9
		Stud	11 - 2	16 - 4	19 - 9	10 - 7	15 - 5	18 - 8	10 - 0	14 - 7	17 - 8	9 - 6	13 - 10	16 - 9
12	Scots Pine - Finland	SS	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺⁺	22 - 0	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No. 3	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	18 - 10	20 - 0 ⁺
		Stud	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
24		SS	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 8	20 - 0 ⁺	11 - 7	18 - 0	20 - 0 ⁺	11 - 3	17 - 4	20 - 0 ⁺
		No.2	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺
		No. 3	11 - 10	17 - 11	20 - 0 ⁺	11 - 5	16 - 11	20 - 0 ⁺	11 - 0	16 - 0	19 - 9	10 - 8	15 - 2	18 - 9
		Stud	11 - 10	18 - 4	20 - 0 ⁺	11 - 5	17 - 5	20 - 0 ⁺	11 - 0	16 - 6	19 - 9	10 - 8	15 - 8	18 - 9

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	14 - 0††	20 - 0†	20 - 0†	13 - 9	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		No.1	13 - 10	20 - 0†	20 - 0†	13 - 5	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 4	19 - 1	20 - 0†
		No.2	13 - 1	20 - 0†	20 - 0†	12 - 9	19 - 8	20 - 0†	12 - 4	19 - 1	20 - 0†	11 - 8	18 - 1	20 - 0†
		No. 3	12 - 9	18 - 8	20 - 0†	12 - 4	17 - 10	20 - 0†	12 - 0	17 - 0	20 - 0†	11 - 0	15 - 7	19 - 4
		Stud	12 - 9	19 - 1	20 - 0†	12 - 4	18 - 2	20 - 0†	11 - 11	17 - 5	20 - 0†	10 - 11	15 - 11	20 - 0†
16		SS	12 - 10	19 - 10	20 - 0†	12 - 5	19 - 3	20 - 0†	12 - 1	18 - 8	20 - 0†	11 - 5	17 - 8	20 - 0†
		No.1	12 - 6	19 - 4	20 - 0†	12 - 2	18 - 9	20 - 0†	11 - 9	18 - 3	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.2	11 - 10	18 - 4	20 - 0†	11 - 6	17 - 10	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 7	16 - 4	20 - 0†
		No. 3	11 - 3	16 - 0	19 - 9	10 - 9	15 - 3	18 - 10	10 - 3	14 - 7	18 - 0	9 - 5	13 - 5	16 - 6
		Stud	11 - 3	16 - 4	19 - 9	10 - 8	15 - 7	18 - 10	10 - 3	14 - 11	18 - 0	9 - 5	13 - 8	16 - 6
24		SS	11 - 2	17 - 3	20 - 0†	10 - 9	16 - 8	20 - 0†	10 - 6	16 - 2	20 - 0†	9 - 11	15 - 4	19 - 11
		No.1	10 - 10	16 - 10	20 - 0†	10 - 6	16 - 4	20 - 0†	10 - 3	15 - 10	20 - 0†	9 - 8	15 - 0	18 - 8
		No.2	10 - 4	15 - 11	20 - 0†	10 - 0	15 - 5	20 - 0†	9 - 8	15 - 0	19 - 6	9 - 2	14 - 2	18 - 1
		No. 3	9 - 1	12 - 10	15 - 11	8 - 8	12 - 3	15 - 2	8 - 3	11 - 9	14 - 6	-	10 - 9	13 - 4
		Stud	9 - 0	13 - 2	15 - 11	8 - 7	12 - 6	15 - 2	8 - 3	12 - 0	14 - 6	-	11 - 0	13 - 4
12	Scots Pine - Finland	SS	14 - 0††	20 - 0†	20 - 0†	13 - 9	20 - 0†	20 - 0†	13 - 4	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		No.1	13 - 10	20 - 0†	20 - 0†	13 - 5	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 4	19 - 1	20 - 0†
		No.2	13 - 6	20 - 0†	20 - 0†	13 - 1	20 - 0†	20 - 0†	12 - 8	19 - 8	20 - 0†	12 - 0	18 - 7	20 - 0†
		No. 3	13 - 1	20 - 0†	20 - 0†	12 - 9	19 - 8	20 - 0†	12 - 4	19 - 1	20 - 0†	11 - 8	17 - 6	20 - 0†
		Stud	13 - 1	20 - 0†	20 - 0†	12 - 9	19 - 8	20 - 0†	12 - 4	19 - 1	20 - 0†	11 - 8	18 - 1	20 - 0†
16		SS	12 - 10	19 - 10	20 - 0†	12 - 5	19 - 3	20 - 0†	12 - 1	18 - 8	20 - 0†	11 - 5	17 - 8	20 - 0†
		No.1	12 - 6	19 - 4	20 - 0†	12 - 2	18 - 9	20 - 0†	11 - 9	18 - 3	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.2	12 - 2	18 - 11	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 6	17 - 9	20 - 0†	10 - 10	16 - 10	20 - 0†
		No. 3	11 - 10	17 - 11	20 - 0†	11 - 6	17 - 1	20 - 0†	11 - 2	16 - 4	20 - 0†	10 - 7	15 - 0	18 - 6
		Stud	11 - 10	18 - 4	20 - 0†	11 - 6	17 - 8	20 - 0†	11 - 2	16 - 10	20 - 0†	10 - 7	15 - 6	18 - 6
24		SS	11 - 2	17 - 3	20 - 0†	10 - 9	16 - 8	20 - 0†	10 - 6	16 - 2	20 - 0†	9 - 11	15 - 4	19 - 11
		No.1	10 - 10	16 - 10	20 - 0†	10 - 6	16 - 4	20 - 0†	10 - 3	15 - 10	20 - 0†	9 - 8	15 - 0	19 - 5
		No.2	10 - 7	16 - 5	20 - 0†	10 - 3	15 - 11	20 - 0†	10 - 0	15 - 5	20 - 0†	9 - 5	14 - 7	19 - 0
		No. 3	10 - 2	14 - 5	17 - 10	9 - 8	13 - 9	17 - 0	9 - 3	13 - 2	16 - 3	8 - 6	12 - 1	14 - 11
		Stud	10 - 3	14 - 11	17 - 10	9 - 9	14 - 2	17 - 0	9 - 4	13 - 7	16 - 3	8 - 7	12 - 5	14 - 11

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No. 3	10 - 2	14 - 5	17 - 10	9 - 5	13 - 5	16 - 7	8 - 10	12 - 6	15 - 5	8 - 3	11 - 8	14 - 6
		Stud	10 - 1	14 - 9	17 - 10	9 - 5	13 - 8	16 - 7	8 - 9	12 - 9	15 - 5	8 - 3	12 - 0	14 - 6
16		SS	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	19 - 10	9 - 6	14 - 8	19 - 0
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	19 - 11	9 - 8	14 - 11	18 - 7	9 - 3	14 - 1	17 - 5
		No.2	10 - 0	15 - 6	20 - 0†	9 - 7	14 - 9	19 - 3	9 - 2	14 - 2	17 - 11	8 - 9	13 - 7	16 - 10
		No. 3	8 - 8	12 - 4	15 - 3	8 - 1	11 - 6	14 - 2	-	10 - 9	13 - 3	-	10 - 0	12 - 5
		Stud	8 - 8	12 - 7	15 - 3	8 - 1	11 - 9	14 - 2	-	10 - 11	13 - 3	-	10 - 3	12 - 5
24		SS	9 - 5	14 - 7	18 - 11	9 - 0	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3	8 - 3	12 - 9	16 - 6
		No.1	9 - 2	13 - 11	17 - 3	8 - 9	12 - 11	16 - 0	8 - 4	12 - 1	14 - 11	8 - 0	11 - 4	14 - 0
		No.2	8 - 8	13 - 6	16 - 8	8 - 4	12 - 6	15 - 6	7 - 11	11 - 8	14 - 5	-	10 - 11	13 - 6
		No. 3	-	9 - 11	12 - 3	-	9 - 3	11 - 5	-	8 - 7	10 - 8	-	8 - 1	10 - 0
		Stud	-	10 - 2	12 - 3	-	9 - 5	11 - 5	-	8 - 10	10 - 8	-	8 - 3	10 - 0
12	Scots Pine – Finland	SS	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	11 - 5	17 - 8	20 - 0†	10 - 10	16 - 10	20 - 0†	10 - 5	16 - 1	20 - 0†	9 - 11	15 - 5	20 - 0†
		No. 3	11 - 1	16 - 2	20 - 0	10 - 7	15 - 0	18 - 6	9 - 10	14 - 0	17 - 4	9 - 3	13 - 1	16 - 2
		Stud	11 - 1	16 - 8	20 - 0†	10 - 7	15 - 6	18 - 6	9 - 11	14 - 5	17 - 4	9 - 4	13 - 6	16 - 2
16		SS	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	19 - 10	9 - 6	14 - 8	19 - 0
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	14 - 11	19 - 5	9 - 3	14 - 4	18 - 7
		No.2	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 11	9 - 0	13 - 11	18 - 1
		No. 3	9 - 9	13 - 10	17 - 1	9 - 1	12 - 10	15 - 11	8 - 5	12 - 0	14 - 10	7 - 11	11 - 3	13 - 11
		Stud	9 - 10	14 - 3	17 - 1	9 - 1	13 - 3	15 - 11	8 - 6	12 - 5	14 - 10	8 - 0	11 - 7	13 - 11
24		SS	9 - 5	14 - 7	18 - 11	9 - 0	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3	8 - 3	12 - 9	16 - 6
		No.1	9 - 2	14 - 2	18 - 6	8 - 9	13 - 6	17 - 7	8 - 4	12 - 11	16 - 5	8 - 0	12 - 5	15 - 4
		No.2	8 - 11	13 - 10	18 - 0	8 - 6	13 - 2	17 - 2	8 - 2	12 - 7	16 - 2	7 - 10	12 - 1	15 - 2
		No. 3	7 - 10	11 - 2	13 - 9	-	10 - 4	12 - 9	-	9 - 8	11 - 11	-	9 - 1	11 - 2
		Stud	7 - 11	11 - 6	13 - 9	-	10 - 8	12 - 9	-	10 - 0	11 - 11	-	9 - 4	11 - 2

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine – Estonia, Latvia, & Lithuania	SS	10 - 1	15 - 7	20 - 0 ⁺	9 - 6	14 - 8	19 - 2
		No.1	9 - 10	15 - 2	19 - 1	9 - 3	14 - 2	17 - 6
		No.2	9 - 4	14 - 5	18 - 6	8 - 10	13 - 7	16 - 11
		No. 3	7 - 9	11 - 0	13 - 7	-	10 - 1	12 - 6
		Stud	-	11 - 3	13 - 7	-	10 - 4	12 - 6
16		SS	9 - 1	14 - 1	18 - 4	8 - 7	13 - 4	17 - 4
		No.1	8 - 11	13 - 3	16 - 5	8 - 5	12 - 2	15 - 0
		No.2	8 - 5	12 - 10	15 - 10	8 - 0	11 - 9	14 - 6
		No. 3	-	9 - 5	11 - 8	-	8 - 8	10 - 8
		Stud	-	9 - 8	11 - 8	-	8 - 10	10 - 8
24		SS	7 - 11	12 - 3	15 - 11	-	11 - 7	14 - 8
		No.1	-	10 - 8	13 - 2	-	9 - 9	12 - 1
		No.2	-	10 - 4	12 - 9	-	9 - 5	11 - 8
		No. 3	-	-	9 - 5	-	-	8 - 7
		Stud	-	-	9 - 5	-	-	8 - 7
12	Scots Pine – Finland	SS	10 - 1	15 - 7	20 - 0 ⁺	9 - 6	14 - 8	19 - 2
		No.1	9 - 10	15 - 2	19 - 9	9 - 3	14 - 4	18 - 8
		No.2	9 - 7	14 - 10	19 - 3	9 - 1	14 - 0	18 - 2
		No. 3	8 - 8	12 - 4	15 - 3	8 - 0	11 - 4	14 - 0
		Stud	8 - 9	12 - 9	15 - 3	8 - 0	11 - 8	14 - 0
16		SS	9 - 1	14 - 1	18 - 4	8 - 7	13 - 4	17 - 4
		No.1	8 - 11	13 - 9	17 - 10	8 - 5	13 - 0	16 - 6
		No.2	8 - 8	13 - 5	17 - 5	8 - 2	12 - 8	16 - 3
		No. 3	-	10 - 7	13 - 1	-	9 - 8	12 - 0
		Stud	-	10 - 11	13 - 1	-	10 - 0	12 - 0
24		SS	7 - 11	12 - 3	15 - 11	-	11 - 7	15 - 0
		No.1	-	11 - 8	14 - 5	-	10 - 9	13 - 3
		No.2	-	11 - 6	14 - 3	-	10 - 7	13 - 1
		No. 3	-	8 - 6	10 - 6	-	7 - 10	9 - 8
		Stud	-	8 - 9	10 - 6	-	8 - 1	9 - 8

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.2	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 7	20 - 0+	20 - 0+	13 - 2	20 - 0+	20 - 0+
		No. 3	14 - 0++	20 - 0+	20 - 0+	13 - 8	20 - 0+	20 - 0+	13 - 2	20 - 0+	20 - 0+	12 - 9	19 - 0	20 - 0+
		Stud	14 - 0++	20 - 0+	20 - 0+	13 - 8	20 - 0+	20 - 0+	13 - 2	20 - 0+	20 - 0+	12 - 9	19 - 7	20 - 0+
16		SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 7	14 - 0++	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+	13 - 5	20 - 0+	20 - 0+	12 - 11	20 - 0+	20 - 0+
		No.2	13 - 3	20 - 0+	20 - 0+	12 - 9	19 - 9	20 - 0+	12 - 4	19 - 0	20 - 0+	11 - 11	18 - 5	20 - 0+
		No. 3	12 - 10	19 - 3	20 - 0+	12 - 4	18 - 2	20 - 0+	11 - 11	17 - 2	20 - 0+	11 - 6	16 - 3	20 - 0+
		Stud	12 - 10	19 - 10	20 - 0+	12 - 4	18 - 8	20 - 0+	11 - 11	17 - 8	20 - 0+	11 - 6	16 - 9	20 - 0+
24		SS	13 - 1	20 - 0+	20 - 0+	12 - 7	19 - 6	20 - 0+	12 - 2	18 - 10	20 - 0+	11 - 9	18 - 2	20 - 0+
		No.1	12 - 6	19 - 4	20 - 0+	12 - 0	18 - 8	20 - 0+	11 - 7	18 - 0	20 - 0+	11 - 3	17 - 4	20 - 0+
		No.2	11 - 6	17 - 9	20 - 0+	11 - 1	17 - 1	20 - 0+	10 - 8	16 - 6	20 - 0+	10 - 4	16 - 0	20 - 0+
		No. 3	10 - 11	15 - 5	19 - 1	10 - 3	14 - 7	18 - 0	9 - 9	13 - 10	17 - 1	9 - 3	13 - 1	16 - 2
		Stud	10 - 11	15 - 11	19 - 1	10 - 4	15 - 0	18 - 0	9 - 9	14 - 3	17 - 1	9 - 3	13 - 6	16 - 2
12	Scots Pine - Sweden	SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+
		No.2	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 7	20 - 0+	20 - 0+
		No. 3	14 - 0++	20 - 0+	20 - 0+	13 - 4	18 - 11	20 - 0+	12 - 7	17 - 11	20 - 0+	12 - 0	17 - 0	20 - 0+
		Stud	14 - 0++	20 - 0+	20 - 0+	13 - 5	19 - 7	20 - 0+	12 - 8	18 - 6	20 - 0+	12 - 1	17 - 7	20 - 0+
16		SS	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 10	20 - 0+	20 - 0+
		No.1	14 - 0++	20 - 0+	20 - 0+	14 - 0++	20 - 0+	20 - 0+	13 - 8	20 - 0+	20 - 0+	13 - 3	20 - 0+	20 - 0+
		No.2	13 - 8	20 - 0+	20 - 0+	13 - 2	20 - 0+	20 - 0+	12 - 8	19 - 7	20 - 0+	12 - 3	19 - 0	20 - 0+
		No. 3	12 - 1	17 - 2	20 - 0+	11 - 5	16 - 3	20 - 0+	10 - 10	15 - 4	19 - 0	10 - 3	14 - 7	18 - 0
		Stud	12 - 2	17 - 9	20 - 0+	11 - 6	16 - 9	20 - 0+	10 - 11	15 - 10	19 - 0	10 - 4	15 - 1	18 - 0
24		SS	13 - 4	20 - 0+	20 - 0+	12 - 11	19 - 11	20 - 0+	12 - 5	19 - 3	20 - 0+	12 - 0	18 - 7	20 - 0+
		No.1	12 - 10	19 - 10	20 - 0+	12 - 4	19 - 1	20 - 0+	11 - 11	18 - 5	20 - 0+	11 - 6	17 - 10	20 - 0+
		No.2	11 - 10	18 - 4	20 - 0+	11 - 5	17 - 8	20 - 0+	11 - 0	16 - 9	20 - 0+	10 - 8	15 - 11	19 - 8
		No. 3	9 - 9	13 - 10	17 - 1	9 - 2	13 - 1	16 - 2	8 - 8	12 - 4	15 - 3	8 - 3	11 - 9	14 - 6
		Stud	9 - 10	14 - 4	17 - 1	9 - 3	13 - 6	16 - 2	8 - 9	12 - 9	15 - 3	8 - 4	12 - 2	14 - 6

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No.1	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		No.2	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	12 - 0	18 - 6	20 - 0 ⁺	11 - 4	17 - 6	20 - 0 ⁺
		No. 3	12 - 4	18 - 1	20 - 0 ⁺	11 - 11	17 - 3	20 - 0 ⁺	11 - 7	16 - 6	20 - 0 ⁺	10 - 8	15 - 1	18 - 8
		Stud	12 - 4	18 - 8	20 - 0 ⁺	11 - 11	17 - 9	20 - 0 ⁺	11 - 7	17 - 0	20 - 0 ⁺	10 - 8	15 - 7	18 - 8
16		SS	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.2	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 10	16 - 9	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺
		No. 3	10 - 11	15 - 6	19 - 2	10 - 5	14 - 9	18 - 3	9 - 11	14 - 1	17 - 5	9 - 1	12 - 11	16 - 0
		Stud	10 - 11	16 - 0	19 - 2	10 - 5	15 - 3	18 - 3	10 - 0	14 - 6	17 - 5	9 - 2	13 - 4	16 - 0
24		SS	11 - 5	17 - 7	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No.1	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	15 - 0	19 - 5
		No.2	10 - 0	15 - 5	20 - 0 ⁺	9 - 8	15 - 0	19 - 6	9 - 5	14 - 7	18 - 11	8 - 11	13 - 9	17 - 5
		No. 3	8 - 9	12 - 6	15 - 5	8 - 4	11 - 11	14 - 8	8 - 0	11 - 4	14 - 0	-	10 - 5	12 - 11
		Stud	8 - 10	12 - 10	15 - 5	8 - 5	12 - 3	14 - 8	8 - 0	11 - 8	14 - 0	-	10 - 9	12 - 11
12	Scots Pine - Sweden	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No. 3	11 - 5	16 - 2	20 - 0	10 - 10	15 - 5	19 - 1	10 - 4	14 - 9	18 - 3	9 - 6	13 - 6	16 - 9
		Stud	11 - 6	16 - 9	20 - 0 ⁺	10 - 11	15 - 11	19 - 1	10 - 5	15 - 3	18 - 3	9 - 7	14 - 0	16 - 9
16		SS	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺
		No.1	12 - 10	19 - 10	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺
		No.2	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 2	20 - 0 ⁺	10 - 7	15 - 9	19 - 5
		No. 3	9 - 9	13 - 10	17 - 2	9 - 4	13 - 3	16 - 4	8 - 11	12 - 7	15 - 7	8 - 2	11 - 7	14 - 4
		Stud	9 - 10	14 - 4	17 - 2	9 - 5	13 - 8	16 - 4	9 - 0	13 - 1	15 - 7	8 - 3	12 - 0	14 - 4
24		SS	11 - 8	18 - 0	20 - 0 ⁺	11 - 3	17 - 5	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.1	11 - 2	17 - 3	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺	10 - 6	16 - 2	20 - 0 ⁺	9 - 11	15 - 4	19 - 0
		No.2	10 - 4	15 - 2	18 - 9	10 - 0	14 - 5	17 - 10	9 - 8	13 - 9	17 - 1	8 - 11	12 - 8	15 - 8
		No. 3	7 - 10	11 - 2	13 - 9	-	10 - 8	13 - 2	-	10 - 2	12 - 7	-	9 - 4	11 - 6
		Stud	7 - 11	11 - 6	13 - 9	-	11 - 0	13 - 2	-	10 - 6	12 - 7	-	9 - 8	11 - 6

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	12 - 3	19 - 0	20 - 0†	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 7	20 - 0†
		No.1	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0†
		No.2	10 - 9	16 - 8	20 - 0†	10 - 3	15 - 10	20 - 0†	9 - 10	15 - 2	19 - 9	9 - 5	14 - 6	18 - 11
		No. 3	9 - 10	13 - 11	17 - 3	9 - 2	12 - 11	16 - 0	8 - 6	12 - 1	14 - 11	8 - 0	11 - 4	14 - 0
		Stud	9 - 10	14 - 5	17 - 3	9 - 2	13 - 4	16 - 0	8 - 7	12 - 6	14 - 11	8 - 0	11 - 8	14 - 0
16		SS	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	19 - 11	9 - 8	14 - 11	18 - 7	9 - 3	14 - 1	17 - 5
		No.2	9 - 9	15 - 1	19 - 7	9 - 3	14 - 4	18 - 6	8 - 10	13 - 8	17 - 4	8 - 6	13 - 1	16 - 2
		No. 3	8 - 5	12 - 0	14 - 9	7 - 10	11 - 1	13 - 9	-	10 - 4	12 - 10	-	9 - 9	12 - 0
		Stud	8 - 6	12 - 4	14 - 9	7 - 10	11 - 5	13 - 9	-	10 - 8	12 - 10	-	10 - 0	12 - 0
24		SS	9 - 7	14 - 11	19 - 4	9 - 2	14 - 2	18 - 5	8 - 9	13 - 7	17 - 8	8 - 5	13 - 0	16 - 11
		No.1	9 - 2	13 - 11	17 - 3	8 - 9	12 - 11	16 - 0	8 - 4	12 - 1	14 - 11	8 - 0	11 - 4	14 - 0
		No.2	8 - 5	13 - 0	16 - 1	8 - 1	12 - 1	14 - 11	-	11 - 3	13 - 11	-	10 - 7	13 - 0
		No. 3	-	9 - 8	11 - 11	-	8 - 11	11 - 1	-	8 - 4	10 - 4	-	7 - 10	9 - 8
		Stud	-	9 - 11	11 - 11	-	9 - 3	11 - 1	-	8 - 7	10 - 4	-	8 - 1	9 - 8
12	Scots Pine - Sweden	SS	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 5	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†
		No.1	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.2	11 - 1	16 - 11	20 - 0†	10 - 7	15 - 9	19 - 6	10 - 1	14 - 8	18 - 2	9 - 8	13 - 9	17 - 0
		No. 3	8 - 10	12 - 6	15 - 5	8 - 2	11 - 7	14 - 4	-	10 - 10	13 - 4	-	10 - 2	12 - 6
		Stud	8 - 10	12 - 11	15 - 5	8 - 3	12 - 0	14 - 4	-	11 - 2	13 - 4	-	10 - 6	12 - 6
16		SS	11 - 4	17 - 6	20 - 0†	10 - 9	16 - 8	20 - 0†	10 - 4	15 - 11	20 - 0†	9 - 11	15 - 4	19 - 11
		No.1	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	18 - 11	9 - 6	14 - 4	17 - 8
		No.2	10 - 0	14 - 6	18 - 0	9 - 6	13 - 6	16 - 8	8 - 10	12 - 7	15 - 7	8 - 4	11 - 10	14 - 7
		No. 3	-	10 - 8	13 - 3	-	9 - 11	12 - 3	-	9 - 3	11 - 6	-	8 - 8	10 - 9
		Stud	-	11 - 1	13 - 3	-	10 - 3	12 - 3	-	9 - 7	11 - 6	-	9 - 0	10 - 9
24		SS	9 - 10	15 - 2	19 - 9	9 - 4	14 - 6	18 - 10	8 - 11	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3
		No.1	9 - 5	14 - 2	17 - 6	9 - 0	13 - 2	16 - 3	8 - 7	12 - 4	15 - 2	8 - 1	11 - 6	14 - 3
		No.2	8 - 3	11 - 8	14 - 5	-	10 - 10	13 - 5	-	10 - 2	12 - 6	-	9 - 6	11 - 9
		No. 3	-	8 - 7	10 - 8	-	8 - 0	9 - 11	-	-	9 - 3	-	-	8 - 8
		Stud	-	8 - 11	10 - 8	-	8 - 3	9 - 11	-	-	9 - 3	-	-	8 - 8

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Scots Pine - Germany	SS	10 - 3	15 - 11	20 - 0 [†]	9 - 9	15 - 1	19 - 7
		No.1	9 - 10	15 - 2	19 - 1	9 - 3	14 - 2	17 - 6
		No.2	9 - 0	13 - 11	17 - 9	8 - 6	13 - 2	16 - 4
		No. 3	-	10 - 8	13 - 2	-	9 - 9	12 - 1
		Stud	-	11 - 0	13 - 2	-	10 - 1	12 - 1
16		SS	9 - 4	14 - 5	18 - 9	8 - 10	13 - 7	17 - 8
		No.1	8 - 11	13 - 3	16 - 5	8 - 5	12 - 2	15 - 0
		No.2	8 - 2	12 - 4	15 - 3	-	11 - 4	14 - 0
		No. 3	-	9 - 2	11 - 4	-	8 - 5	10 - 4
		Stud	-	9 - 5	11 - 4	-	8 - 8	10 - 4
24		SS	8 - 1	12 - 6	16 - 3	-	11 - 10	15 - 0
		No.1	-	10 - 8	13 - 2	-	9 - 9	12 - 1
		No.2	-	9 - 11	12 - 3	-	9 - 1	11 - 3
		No. 3	-	-	9 - 1	-	-	8 - 4
		Stud	-	-	9 - 1	-	-	8 - 4
12	Scots Pine - Sweden	SS	10 - 6	16 - 3	20 - 0 [†]	9 - 11	15 - 4	20 - 0
		No.1	10 - 1	15 - 7	19 - 5	9 - 6	14 - 5	17 - 10
		No.2	9 - 1	12 - 11	16 - 0	8 - 4	11 - 11	14 - 8
		No. 3	-	9 - 6	11 - 9	-	8 - 9	10 - 10
		Stud	-	9 - 10	11 - 9	-	9 - 1	10 - 10
16		SS	9 - 6	14 - 8	19 - 1	9 - 0	13 - 11	18 - 1
		No.1	9 - 1	13 - 6	16 - 8	8 - 7	12 - 4	15 - 3
		No.2	7 - 10	11 - 1	13 - 9	-	10 - 2	12 - 7
		No. 3	-	8 - 2	10 - 1	-	-	9 - 3
		Stud	-	8 - 6	10 - 1	-	7 - 9	9 - 3
24		SS	8 - 3	12 - 9	16 - 7	7 - 10	12 - 1	15 - 8
		No.1	-	10 - 10	13 - 5	-	9 - 11	12 - 4
		No.2	-	8 - 11	11 - 0	-	8 - 2	10 - 2
		No. 3	-	-	8 - 2	-	-	-
		Stud	-	-	8 - 2	-	-	-

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir – France & Germany	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	19 - 11	20 - 0 ⁺	13 - 0	18 - 10	20 - 0 ⁺	12 - 7	17 - 10	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 0	19 - 4	20 - 0 ⁺	12 - 7	18 - 4	20 - 0 ⁺
24		SS	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺	12 - 6	19 - 4	20 - 0 ⁺
		No.1	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	19 - 11	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No.2	12 - 10	19 - 10	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺
		No. 3	11 - 11	16 - 11	20 - 0 ⁺	11 - 3	16 - 0	19 - 9	10 - 8	15 - 2	18 - 9	10 - 1	14 - 4	17 - 9
		Stud	11 - 11	17 - 5	20 - 0 ⁺	11 - 3	16 - 5	19 - 9	10 - 8	15 - 7	18 - 9	10 - 2	14 - 9	17 - 9
12	Douglas Fir/European Larch – Austria, The Czech Republic & Bavaria	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
16		SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 7	20 - 0 ⁺	20 - 0 ⁺
		No. 3	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
		Stud	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0 ⁺	20 - 0 ⁺
24		SS	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 7	20 - 0 ⁺	12 - 3	19 - 0	20 - 0 ⁺
		No.1	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 11	19 - 11	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No.2	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺
		No. 3	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 8	20 - 0 ⁺	11 - 7	18 - 0	20 - 0 ⁺	11 - 3	17 - 4	20 - 0 ⁺
		Stud	12 - 6	19 - 4	20 - 0 ⁺	12 - 0	18 - 5	20 - 0 ⁺	11 - 7	17 - 5	20 - 0 ⁺	11 - 3	16 - 6	20 - 0 ⁺

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir – France & Germany	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No. 3	13 - 6	19 - 10	20 - 0 ⁺	13 - 1	18 - 11	20 - 0 ⁺	12 - 8	18 - 1	20 - 0 ⁺	11 - 8	16 - 7	20 - 0 ⁺
		Stud	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 1	19 - 5	20 - 0 ⁺	12 - 8	18 - 7	20 - 0 ⁺	11 - 8	17 - 0	20 - 0 ⁺
16		SS	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 5	19 - 2	20 - 0 ⁺
		No.1	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺
		No.2	12 - 10	19 - 10	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺
		No. 3	11 - 11	17 - 0	20 - 0 ⁺	11 - 5	16 - 2	20 - 0 ⁺	10 - 11	15 - 6	19 - 2	10 - 0	14 - 2	17 - 7
		Stud	12 - 0	17 - 6	20 - 0 ⁺	11 - 5	16 - 8	20 - 0 ⁺	10 - 11	15 - 11	19 - 2	10 - 0	14 - 7	17 - 7
24		SS	12 - 1	18 - 8	20 - 0 ⁺	11 - 9	18 - 2	20 - 0 ⁺	11 - 5	17 - 7	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺
		No.1	11 - 8	18 - 0	20 - 0 ⁺	11 - 3	17 - 5	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.2	11 - 2	17 - 3	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺	10 - 6	16 - 2	20 - 0 ⁺	9 - 11	15 - 4	19 - 0
		No. 3	9 - 7	13 - 8	16 - 11	9 - 2	13 - 0	16 - 1	8 - 9	12 - 5	15 - 5	8 - 1	11 - 5	14 - 1
		Stud	9 - 8	14 - 1	16 - 11	9 - 2	13 - 5	16 - 1	8 - 9	12 - 10	15 - 5	8 - 1	11 - 9	14 - 1
12	Douglas Fir/European Larch – Austria, The Czech Republic & Bavaria	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 11	20 - 0 ⁺	20 - 0 ⁺	13 - 2	20 - 0 ⁺	20 - 0 ⁺
		No.2	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 8	20 - 0 ⁺	20 - 0 ⁺	12 - 11	20 - 0	20 - 0 ⁺
		No. 3	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
		Stud	13 - 10	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺
16		SS	13 - 8	20 - 0 ⁺	20 - 0 ⁺	13 - 3	20 - 0 ⁺	20 - 0 ⁺	12 - 10	19 - 11	20 - 0 ⁺	12 - 2	18 - 10	20 - 0 ⁺
		No.1	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 0	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺	11 - 11	18 - 5	20 - 0 ⁺
		No.2	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 9	19 - 8	20 - 0 ⁺	12 - 4	19 - 1	20 - 0 ⁺	11 - 8	18 - 1	20 - 0 ⁺
		No. 3	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		Stud	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 7	20 - 0 ⁺	11 - 9	17 - 9	20 - 0 ⁺	11 - 2	16 - 4	20 - 0 ⁺
24		SS	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 10	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺	10 - 7	16 - 4	20 - 0 ⁺
		No.1	11 - 8	18 - 0	20 - 0 ⁺	11 - 3	17 - 5	20 - 0 ⁺	10 - 11	16 - 11	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.2	11 - 5	17 - 7	20 - 0 ⁺	11 - 0	17 - 1	20 - 0 ⁺	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No. 3	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 10	20 - 0 ⁺	9 - 8	14 - 10	18 - 4
		Stud	10 - 9	15 - 8	20 - 0 ⁺	10 - 3	15 - 0	20 - 0 ⁺	9 - 10	14 - 4	20 - 0 ⁺	9 - 0	13 - 2	18 - 4

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir – France & Germany	SS	13 - 0	20 - 0†	20 - 0†	12 - 5	19 - 2	20 - 0†	11 - 10	18 - 4	20 - 0†	11 - 4	17 - 7	20 - 0†
		No.1	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 5	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†
		No.2	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No. 3	10 - 9	15 - 4	18 - 11	10 - 0	14 - 2	17 - 7	9 - 4	13 - 3	16 - 5	8 - 9	12 - 5	15 - 4
		Stud	10 - 9	15 - 9	18 - 11	10 - 0	14 - 7	17 - 7	9 - 4	13 - 8	16 - 5	8 - 9	12 - 9	15 - 4
16		SS	11 - 9	18 - 3	20 - 0†	11 - 3	17 - 4	20 - 0†	10 - 9	16 - 7	20 - 0†	10 - 3	15 - 11	20 - 0†
		No.1	11 - 4	17 - 6	20 - 0†	10 - 9	16 - 8	20 - 0†	10 - 4	15 - 11	20 - 0†	9 - 11	15 - 4	19 - 4
		No.2	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	18 - 11	9 - 6	14 - 4	17 - 8
		No. 3	9 - 3	13 - 1	16 - 3	8 - 7	12 - 2	15 - 1	8 - 0	11 - 4	14 - 1	-	10 - 8	13 - 2
		Stud	9 - 3	13 - 6	16 - 3	8 - 7	12 - 6	15 - 1	8 - 0	11 - 8	14 - 1	-	10 - 11	13 - 2
24		SS	10 - 3	15 - 10	20 - 0†	9 - 9	15 - 1	19 - 7	9 - 4	14 - 5	18 - 9	8 - 11	13 - 10	17 - 11
		No.1	9 - 10	15 - 2	19 - 2	9 - 4	14 - 5	17 - 10	8 - 11	13 - 5	16 - 7	8 - 7	12 - 7	15 - 7
		No.2	9 - 5	14 - 2	17 - 6	9 - 0	13 - 2	16 - 3	8 - 7	12 - 4	15 - 2	8 - 1	11 - 6	14 - 3
		No. 3	-	10 - 7	13 - 1	-	9 - 10	12 - 1	-	9 - 2	13 - 4	-	8 - 7	10 - 7
		Stud	-	10 - 10	13 - 1	-	10 - 1	12 - 1	-	9 - 5	13 - 4	-	8 - 10	10 - 7
12	Douglas Fir/European Larch – Austria, The Czech Republic & Bavaria	SS	12 - 9	19 - 9	20 - 0†	12 - 2	18 - 10	20 - 0†	11 - 8	18 - 0	20 - 0†	11 - 2	17 - 3	20 - 0†
		No.1	12 - 6	19 - 4	20 - 0†	11 - 11	18 - 5	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†
		No.2	12 - 3	19 - 0	20 - 0†	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 7	20 - 0†
		No. 3	11 - 8	18 - 1	20 - 0†	11 - 2	17 - 3	20 - 0†	10 - 8	16 - 6	20 - 0†	10 - 3	15 - 10	20 - 0
		Stud	11 - 8	17 - 7	20 - 0†	11 - 2	16 - 4	20 - 0†	10 - 5	15 - 3	20 - 0†	9 - 10	14 - 3	20 - 0†
16		SS	11 - 7	17 - 10	20 - 0†	11 - 0	17 - 0	20 - 0†	10 - 6	16 - 3	20 - 0†	10 - 1	15 - 7	20 - 0†
		No.1	11 - 4	17 - 6	20 - 0†	10 - 9	16 - 8	20 - 0†	10 - 4	15 - 11	20 - 0†	9 - 11	15 - 4	19 - 11
		No.2	11 - 1	17 - 2	20 - 0†	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	20 - 0†	9 - 8	15 - 0	19 - 6
		No. 3	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 7	19 - 7	9 - 8	14 - 9	18 - 3	9 - 3	13 - 10	17 - 1
		Stud	10 - 4	15 - 1	20 - 0†	9 - 7	14 - 0	19 - 7	9 - 0	13 - 1	18 - 3	8 - 5	12 - 3	17 - 1
24		SS	10 - 0	15 - 6	20 - 0†	9 - 7	14 - 9	19 - 3	9 - 2	14 - 2	18 - 4	8 - 9	13 - 7	17 - 7
		No.1	9 - 10	15 - 2	19 - 9	9 - 4	14 - 6	18 - 10	8 - 11	13 - 10	18 - 0	8 - 7	13 - 3	17 - 3
		No.2	9 - 7	14 - 11	19 - 4	9 - 2	14 - 2	18 - 5	8 - 9	13 - 7	17 - 8	8 - 5	13 - 0	16 - 11
		No. 3	9 - 2	13 - 9	17 - 0	8 - 9	12 - 9	15 - 9	8 - 4	11 - 11	14 - 8	7 - 10	11 - 2	13 - 9
		Stud	8 - 4	12 - 1	17 - 0	-	11 - 3	15 - 9	-	10 - 6	14 - 8	-	9 - 10	13 - 9

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Douglas Fir - France & Germany	SS	10 - 11	16 - 11	20 - 0 ⁺	10 - 4	16 - 0	20 - 0 ⁺
		No.1	10 - 6	16 - 3	20 - 0 ⁺	9 - 11	15 - 4	19 - 6
		No.2	10 - 1	15 - 7	19 - 5	9 - 6	14 - 5	17 - 10
		No. 3	8 - 3	11 - 8	14 - 5	-	10 - 9	13 - 3
		Stud	8 - 3	12 - 0	14 - 5	-	11 - 0	13 - 3
16		SS	9 - 11	15 - 3	19 - 10	9 - 4	14 - 5	18 - 9
		No.1	9 - 6	14 - 8	18 - 3	9 - 0	13 - 6	16 - 9
		No.2	9 - 1	13 - 6	16 - 8	8 - 7	12 - 4	15 - 3
		No. 3	-	10 - 0	12 - 5	-	9 - 2	11 - 4
		Stud	-	10 - 4	12 - 5	-	9 - 5	11 - 4
24		SS	8 - 7	13 - 3	17 - 3	8 - 1	12 - 6	16 - 4
		No.1	8 - 3	11 - 10	14 - 8	-	10 - 11	13 - 5
		No.2	-	10 - 10	13 - 5	-	9 - 11	12 - 4
		No. 3	-	8 - 1	10 - 0	-	-	9 - 2
		Stud	-	8 - 4	10 - 0	-	-	9 - 2
12	Douglas Fir/European Larch - Austria, The Czech Republic & Bavaria	SS	10 - 9	16 - 7	20 - 0 ⁺	10 - 2	15 - 8	20 - 0 ⁺
		No.1	10 - 6	16 - 3	20 - 0 ⁺	9 - 11	15 - 4	20 - 0
		No.2	10 - 3	15 - 11	20 - 0 ⁺	9 - 9	15 - 1	19 - 7
		No. 3	9 - 10	15 - 2	18 - 9	9 - 3	13 - 11	17 - 3
		Stud	9 - 3	13 - 5	18 - 9	8 - 6	12 - 4	17 - 3
16		SS	9 - 8	15 - 0	19 - 6	9 - 2	14 - 2	18 - 5
		No.1	9 - 6	14 - 8	19 - 1	9 - 0	13 - 11	18 - 1
		No.2	9 - 4	14 - 5	18 - 9	8 - 10	13 - 7	17 - 8
		No. 3	8 - 11	13 - 0	16 - 1	8 - 5	11 - 11	14 - 9
		Stud	7 - 11	11 - 6	16 - 1	-	10 - 7	14 - 9
24		SS	8 - 5	13 - 0	16 - 11	8 - 0	12 - 4	16 - 0
		No.1	8 - 3	12 - 9	16 - 7	7 - 10	12 - 1	15 - 8
		No.2	8 - 1	12 - 6	16 - 3	-	11 - 10	15 - 4
		No. 3	-	10 - 6	12 - 11	-	9 - 7	11 - 11
		Stud	-	9 - 3	12 - 11	-	8 - 6	11 - 11

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			90			95			100			105		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) – Germany, NE France, & Switzerland	SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 11	20 - 0†	20 - 0†
		No. 3	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	20 - 0†	20 - 0†	13 - 2	19 - 8	20 - 0†
		Stud	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 7	20 - 0†	20 - 0†	13 - 2	20 - 0†	20 - 0†
16		SS	14 - 0††	20 - 0†	20 - 0†	14 - 0††	20 - 0†	20 - 0†	13 - 8	20 - 0†	20 - 0†	13 - 3	20 - 0†	20 - 0†
		No.1	14 - 0††	20 - 0†	20 - 0†	13 - 10	20 - 0†	20 - 0†	13 - 5	20 - 0†	20 - 0†	12 - 11	20 - 0†	20 - 0†
		No.2	14 - 0††	20 - 0†	20 - 0†	13 - 6	20 - 0†	20 - 0†	13 - 0	20 - 0†	20 - 0†	12 - 7	19 - 6	20 - 0†
		No. 3	13 - 3	19 - 10	20 - 0†	12 - 9	18 - 9	20 - 0†	12 - 4	17 - 9	20 - 0†	11 - 10	16 - 10	20 - 0†
		Stud	13 - 3	20 - 0†	20 - 0†	12 - 9	19 - 2	20 - 0†	12 - 4	18 - 1	20 - 0†	11 - 9	17 - 2	20 - 0†
24		SS	12 - 10	19 - 10	20 - 0†	12 - 4	19 - 1	20 - 0†	11 - 11	18 - 5	20 - 0†	11 - 6	17 - 10	20 - 0†
		No.1	12 - 6	19 - 4	20 - 0†	12 - 0	18 - 8	20 - 0†	11 - 7	18 - 0	20 - 0†	11 - 3	17 - 4	20 - 0†
		No.2	12 - 2	18 - 10	20 - 0†	11 - 9	18 - 2	20 - 0†	11 - 4	17 - 6	20 - 0†	10 - 11	16 - 11	20 - 0†
		No. 3	11 - 3	16 - 0	19 - 9	10 - 7	15 - 1	18 - 8	10 - 0	14 - 3	17 - 8	9 - 6	13 - 6	16 - 9
		Stud	11 - 2	16 - 4	19 - 9	10 - 7	15 - 5	18 - 8	10 - 0	14 - 7	17 - 8	9 - 6	13 - 10	16 - 9

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			110			115			120			130		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) – Germany, NE France, & Switzerland	SS	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 9	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.1	14 - 0 ⁺	20 - 0 ⁺	20 - 0 ⁺	13 - 5	20 - 0 ⁺	20 - 0 ⁺	13 - 4	20 - 0 ⁺	20 - 0 ⁺	12 - 7	19 - 6	20 - 0 ⁺
		No.2	13 - 6	20 - 0 ⁺	20 - 0 ⁺	13 - 1	20 - 0 ⁺	20 - 0 ⁺	12 - 8	19 - 8	20 - 0 ⁺	12 - 0	18 - 7	20 - 0 ⁺
		No. 3	12 - 9	18 - 8	20 - 0 ⁺	12 - 4	17 - 10	20 - 0 ⁺	12 - 0	17 - 0	20 - 0 ⁺	11 - 0	15 - 7	19 - 4
		Stud	12 - 9	19 - 1	20 - 0 ⁺	12 - 4	18 - 2	20 - 0 ⁺	11 - 11	17 - 5	20 - 0 ⁺	10 - 11	15 - 11	19 - 4
16		SS	12 - 10	19 - 10	20 - 0 ⁺	12 - 5	19 - 3	20 - 0 ⁺	12 - 1	18 - 8	20 - 0 ⁺	11 - 5	17 - 8	20 - 0 ⁺
		No.1	12 - 6	19 - 4	20 - 0 ⁺	12 - 2	18 - 9	20 - 0 ⁺	11 - 9	18 - 3	20 - 0 ⁺	11 - 2	17 - 3	20 - 0 ⁺
		No.2	12 - 2	18 - 11	20 - 0 ⁺	11 - 10	18 - 4	20 - 0 ⁺	11 - 6	17 - 9	20 - 0 ⁺	10 - 10	16 - 10	20 - 0 ⁺
		No. 3	11 - 3	16 - 0	19 - 9	10 - 9	15 - 3	18 - 10	10 - 3	14 - 7	18 - 0	9 - 5	13 - 5	16 - 6
		Stud	11 - 3	16 - 4	19 - 9	10 - 8	15 - 7	18 - 10	10 - 3	14 - 11	18 - 0	9 - 5	13 - 8	16 - 6
24		SS	11 - 2	17 - 3	20 - 0 ⁺	10 - 9	16 - 8	20 - 0 ⁺	10 - 6	16 - 2	20 - 0 ⁺	9 - 11	15 - 4	19 - 11
		No.1	10 - 10	16 - 10	20 - 0 ⁺	10 - 6	16 - 4	20 - 0 ⁺	10 - 3	15 - 7	19 - 4	9 - 8	14 - 4	17 - 9
		No.2	10 - 7	16 - 5	20 - 0 ⁺	10 - 3	15 - 11	20 - 0 ⁺	10 - 0	15 - 5	19 - 4	9 - 5	14 - 4	17 - 9
		No. 3	9 - 1	12 - 10	15 - 11	8 - 8	12 - 3	15 - 2	8 - 3	11 - 9	14 - 6	-	10 - 9	13 - 4
		Stud	9 - 0	13 - 2	15 - 11	8 - 7	12 - 6	15 - 2	8 - 3	12 - 0	14 - 6	-	11 - 0	13 - 4

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			140			150			160			170		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) – Germany, NE France, & Switzerland	SS	12 - 0	18 - 6	20 - 0†	11 - 5	17 - 8	20 - 0†	10 - 11	16 - 11	20 - 0†	10 - 6	16 - 2	20 - 0†
		No.1	12 - 0	18 - 6	20 - 0†	11 - 2	17 - 8	20 - 0†	10 - 11	16 - 8	20 - 0†	10 - 6	15 - 7	19 - 3
		No.2	11 - 5	17 - 8	20 - 0†	10 - 10	16 - 10	20 - 0†	10 - 5	16 - 1	20 - 0†	9 - 11	15 - 5	19 - 3
		No. 3	10 - 2	14 - 5	17 - 10	9 - 5	13 - 5	16 - 7	8 - 10	12 - 6	15 - 5	8 - 3	11 - 8	14 - 6
		Stud	10 - 1	14 - 9	17 - 10	9 - 5	13 - 8	16 - 7	8 - 9	12 - 9	15 - 5	8 - 3	12 - 0	14 - 6
16		SS	10 - 10	16 - 9	20 - 0†	10 - 4	16 - 0	20 - 0†	9 - 10	15 - 3	19 - 10	9 - 6	14 - 8	19 - 0
		No.1	10 - 7	16 - 4	20 - 0†	10 - 1	15 - 3	18 - 11	9 - 8	14 - 3	17 - 8	9 - 3	13 - 4	16 - 6
		No.2	10 - 4	15 - 11	20 - 0†	9 - 10	15 - 2	18 - 11	9 - 5	14 - 3	17 - 8	9 - 0	13 - 4	16 - 6
		No. 3	8 - 8	12 - 4	15 - 3	8 - 1	11 - 6	14 - 2	-	10 - 9	13 - 3	-	10 - 0	12 - 5
		Stud	8 - 8	12 - 7	15 - 3	8 - 1	11 - 9	14 - 2	-	10 - 11	13 - 3	-	10 - 3	12 - 5
24		SS	9 - 5	14 - 7	18 - 11	9 - 0	13 - 10	17 - 7	8 - 7	13 - 3	16 - 5	8 - 3	12 - 5	15 - 4
		No.1	9 - 2	13 - 3	16 - 4	8 - 8	12 - 4	15 - 2	8 - 1	11 - 6	14 - 2	-	10 - 9	13 - 3
		No.2	8 - 11	13 - 3	16 - 4	8 - 6	12 - 4	15 - 2	8 - 1	11 - 6	14 - 2	-	10 - 9	13 - 3
		No. 3	-	9 - 11	12 - 3	-	9 - 3	11 - 5	-	8 - 7	10 - 8	-	8 - 1	10 - 0
		Stud	-	10 - 2	12 - 3	-	9 - 5	11 - 5	-	8 - 10	10 - 8	-	8 - 3	10 - 0

See footnotes to the table on page 69.

TABLE 2 - MAXIMUM ALLOWABLE STUD LENGTH TABLES

Exposure C - H/180 - 3/8" WSP			180			195		
Stud Spacing	Species	Grade	2x4	2x6	2x8	2x4	2x6	2x8
12	Silver Fir (Abies alba) – Germany, NE France, & Switzerland	SS	10 - 1	15 - 7	20 - 0†	9 - 6	14 - 8	19 - 2
		No.1	10 - 1	14 - 8	18 - 2	9 - 6	13 - 5	16 - 8
		No.2	9 - 7	14 - 8	18 - 2	9 - 1	13 - 5	16 - 8
		No. 3	7 - 9	11 - 0	13 - 7	-	10 - 1	12 - 6
		Stud	-	11 - 3	13 - 7	-	10 - 4	12 - 6
16		SS	9 - 1	14 - 1	18 - 0	8 - 7	13 - 4	16 - 6
		No.1	8 - 10	12 - 7	15 - 6	8 - 1	11 - 6	14 - 3
		No.2	8 - 8	12 - 7	15 - 6	8 - 1	11 - 6	14 - 3
		No. 3	-	9 - 5	11 - 8	-	8 - 8	10 - 8
		Stud	-	9 - 8	11 - 8	-	8 - 10	10 - 8
24		SS	7 - 11	11 - 8	14 - 5	-	10 - 9	13 - 3
		No.1	-	10 - 1	12 - 6	-	9 - 3	11 - 6
		No.2	-	10 - 1	12 - 6	-	9 - 3	11 - 6
		No. 3	-	-	9 - 5	-	-	8 - 7
		Stud	-	7 - 9	9 - 5	-	-	8 - 7

See footnotes to the table on page 69.

TABLE 3 - SIZE, HEIGHT, AND SPACING LIMITATIONS FOR WOODS^{1,2,3}

	2x4	2x6	2x8
Loadbearing Studs Supporting	Maximum Unsupported Stud Length (ft)		
	10	10	10
	Maximum Stud Spacing (inches o.c)		
Roof & Ceiling Only	24	24	24
1 Floor Only	24	24	24
Roof, Ceiling, & 1 Floor Only	16	24	24
2 Floors Only	16	24	24
Roof, Ceiling, & 2 Floors	-	16	24
Non-loadbearing Studs	Maximum Unsupported Stud Length (ft)		
	14	20	20
	Maximum Stud Spacing (inches o.c)		
	24	24	24

1. Maximum stud lengths in Tables 1 and 2 are based on wind loads. For dead and live loads, stud lengths shall be limited to the requirements in this Table 3.
2. Habitable attics shall be considered an additional floor for purposes of determining gravity and seismic loads in accordance with AWC's WFCM Section 3.1.3.1
3. Table 3 is a replication of AWC Table 3.20C of the Wood Frame Construction Manual. PLIB acknowledges that they are not the owner nor creator of the information in Table 3 and is replicated as an aid to the wood frame construction industry.

Footnotes to the tables:

The tables shown follow the design methodology and assumptions used in the WFCM tables 3.20 b1-b6.

Assumptions from WFCM Table 3.20 b1-b6

1. †Allowable stud length exceeds 20 feet
2. ††Maximum stud length for 2x4 non loadbearing stud is 14' per Table 3
3. – Lumber grade not available or allowable stud length is less than 7'9" for 8' wall height
4. Inside wall is covered with a minimum of 1/2" gypsum wallboard attached in accordance with minimum building code requirements.
5. Outside wall is covered with a minimum of 3/8" wood structural panel sheathing with all panel joints occurring over studs or blocking and attached using a minimum 8d common nails spaced a maximum of 6" on center at panel edges and 12" on center at intermediate framing members
6. To address additional end zone loading requirements, end zone stud spacings shall be multiplied by 0.80 for framing located within 4 feet of corners. The additional bending capacity provided by the reduced stud spacing is assumed to be sufficient to resist the additional end zone loading requirements.

TABLE 4 – BASE VALUE COMPARISON TABLE

	Select Structural	No. 1	No. 2	No. 3	Stud	Construction	Standard	Utility
Fiber Bending Stress (Fb) ¹ , psi								
Austrian Spruce - Austria & The Czech Republic	1,500	1,000	925	525	725	1,050	575	275
Norway Spruce - Estonia, Latvia, & Lithuania	1,200	850	800	450	625	900	500	250
Norway Spruce - Finland	1,350	850	625	375	500	725	400	200
Norway Spruce - Germany, NE France, & Switzerland	1,200	825	725	425	575	825	475	225
Norway Spruce - Norway	1,550	1,000	800	475	625	925	525	250
Norway Spruce - Romania & Ukraine	1,250	850	750	425	575	850	475	225
Norway Spruce - Sweden	1,250	825	675	400	550	775	425	200
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine	1,300	900	775	450	600	875	500	225
Scots Pine - Estonia, Latvia, & Lithuania	1,150	800	750	425	575	850	475	225
Scots Pine - Finland	1,300	950	925	525	725	1,050	600	275
Scots Pine - Germany	1,200	800	700	400	550	800	450	225
Scots Pine - Sweden	1,350	825	575	375	450	650	375	175
Silver Fir (Abies alba) - Germany, NE France, & Switzerland	950	725	725	425	575	825	475	225
Douglas Fir-Larch	1,500	1,000	900	525	700	1,000	575	275
Hem-Fir	1,400	975	850	500	675	975	550	250
Spruce Pine Fir	1,250	875	875	500	675	1,000	550	275
Tension Parallel to Grain (Ft) ¹ , psi								
Austrian Spruce - Austria & The Czech Republic	675	450	400	225	325	475	250	125
Norway Spruce - Estonia, Latvia, & Lithuania	550	375	350	200	275	400	225	100
Norway Spruce - Finland	600	375	275	175	225	325	175	75
Norway Spruce - Germany, NE France, & Switzerland	550	375	325	200	250	375	200	100
Norway Spruce - Norway	700	450	375	200	275	425	225	100
Norway Spruce - Romania & Ukraine	575	375	325	200	250	375	200	100
Norway Spruce - Sweden	550	375	300	175	250	350	200	100
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine	600	400	350	200	275	400	225	100
Scots Pine - Estonia, Latvia, & Lithuania	525	350	325	200	275	375	225	100
Scots Pine - Finland	600	425	425	250	325	475	275	125
Scots Pine - Germany	550	375	325	175	250	375	200	100
Scots Pine - Sweden	600	375	250	150	200	300	175	75
Silver Fir (Abies alba) - Germany, NE France, & Switzerland	425	325	325	200	250	375	200	100
Douglas Fir-Larch	1,000	675	575	325	450	650	375	175
Hem-Fir	925	625	525	300	400	600	325	150
Spruce Pine Fir	700	450	450	250	350	500	275	125

¹Listed values are not size adjusted. Size adjustment factors (Cf) are listed in Table 4 of Paragraph 200 of *Standard No 17*.

TABLE 4 –BASE VALUE COMPARISON TABLE

	Select Structural	No. 1	No. 2	No. 3	Stud	Construction	Standard	Utility
Shear Parallel to Grain (Fv), psi								
Austrian Spruce - Austria & The Czech Republic					175			
Norway Spruce - Estonia, Latvia, & Lithuania					150			
Norway Spruce - Finland					125			
Norway Spruce - Germany, NE France, & Switzerland					170			
Norway Spruce - Norway					115			
Norway Spruce - Romania & Ukraine					100			
Norway Spruce - Sweden					170			
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine					135			
Scots Pine - Estonia, Latvia, & Lithuania					130			
Scots Pine - Finland					150			
Scots Pine - Germany					160			
Scots Pine - Sweden					120			
Silver Fir (Abies alba) - Germany, NE France, & Switzerland					125			
Douglas Fir-Larch					180			
Hem-Fir					150			
Spruce Pine Fir					135			
Compression Perpendicular to Grain (Fcperp), psi								
Austrian Spruce - Austria & The Czech Republic					260			
Norway Spruce - Estonia, Latvia, & Lithuania					430			
Norway Spruce - Finland					220			
Norway Spruce - Germany, NE France, & Switzerland					355			
Norway Spruce - Norway					360			
Norway Spruce - Romania & Ukraine					275			
Norway Spruce - Sweden					285			
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine					270			
Scots Pine - Estonia, Latvia, & Lithuania					430			
Scots Pine - Finland					210			
Scots Pine - Germany					395			
Scots Pine - Sweden					410			
Silver Fir (Abies alba) - Germany, NE France, & Switzerland					400			
Douglas Fir-Larch					625			
Hem-Fir					405			
Spruce Pine Fir					425			

TABLE 4 –BASE VALUE COMPARISON TABLE

	Select Structural	No. 1	No. 2	No. 3	Stud	Construction	Standard	Utility
Compression Parallel to Grain (Fc) ¹ , psi								
Austrian Spruce - Austria & The Czech Republic	1,250	1,100	1,050	625	675	1,300	1,100	725
Norway Spruce - Estonia, Latvia, & Lithuania	1,200	1,050	1,000	575	625	1,200	1,050	675
Norway Spruce - Finland	1,200	1,000	875	500	550	1,100	900	600
Norway Spruce - Germany, NE France, & Switzerland	1,200	1,050	950	550	600	1,200	975	650
Norway Spruce - Norway	1,250	1,100	1,000	575	650	1,250	1,050	675
Norway Spruce - Romania & Ukraine	1,200	1,050	950	550	600	1,200	1,000	650
Norway Spruce - Sweden	1,200	1,050	925	525	575	1,150	950	625
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine	1,200	1,050	1,000	575	625	1,200	1,000	675
Scots Pine - Estonia, Latvia, & Lithuania	1,150	1,050	975	550	625	1,200	1,000	650
Scots Pine - Finland	1,200	1,100	1,100	625	675	1,300	1,100	725
Scots Pine - Germany	1,200	1,050	950	550	600	1,150	975	625
Scots Pine - Sweden	1,200	1,000	825	475	525	1,050	850	550
Silver Fir (Abies alba) - Germany, NE France, & Switzerland	1,100	975	950	550	600	1,150	975	650
Douglas Fir-Larch	1,700	1,500	1,350	775	850	1,650	1,400	900
Hem-Fir	1,500	1,350	1,300	725	800	1,550	1,300	850
Spruce Pine Fir	1,400	1,150	1,150	650	725	1,400	1,150	750
Modulus of Elasticity (E), psi								
Austrian Spruce - Austria & The Czech Republic	1,700,000	1,600,000	1,500,000	1,300,000	1,300,000	1,400,000	1,300,000	1,200,000
Norway Spruce - Estonia, Latvia, & Lithuania	1,600,000	1,400,000	1,300,000	1,100,000	1,100,000	1,200,000	1,100,000	1,000,000
Norway Spruce - Finland	1,500,000	1,400,000	1,200,000	1,100,000	1,100,000	1,100,000	1,000,000	1,000,000
Norway Spruce - Germany, NE France, & Switzerland	1,600,000	1,400,000	1,200,000	1,100,000	1,100,000	1,100,000	1,000,000	900,000
Norway Spruce - Norway	1,800,000	1,500,000	1,300,000	1,200,000	1,200,000	1,200,000	1,100,000	1,000,000
Norway Spruce - Romania & Ukraine	1,500,000	1,400,000	1,200,000	1,100,000	1,100,000	1,100,000	1,000,000	1,000,000
Norway Spruce - Sweden	1,600,000	1,400,000	1,200,000	1,100,000	1,100,000	1,200,000	1,100,000	1,000,000
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine	1,700,000	1,600,000	1,400,000	1,300,000	1,300,000	1,300,000	1,200,000	1,100,000
Scots Pine - Estonia, Latvia, & Lithuania	1,500,000	1,400,000	1,200,000	1,100,000	1,100,000	1,100,000	1,000,000	1,000,000
Scots Pine - Finland	1,500,000	1,400,000	1,300,000	1,200,000	1,200,000	1,200,000	1,100,000	1,000,000
Scots Pine - Germany	1,600,000	1,400,000	1,100,000	1,000,000	1,000,000	1,100,000	1,000,000	900,000
Scots Pine - Sweden	1,700,000	1,500,000	1,200,000	1,100,000	1,100,000	1,200,000	1,100,000	1,000,000
Silver Fir (Abies alba) - Germany, NE France, & Switzerland	1,500,000	1,400,000	1,300,000	1,100,000	1,100,000	1,200,000	1,100,000	1,000,000
Douglas Fir-Larch	1,900,000	1,700,000	1,600,000	1,400,000	1,400,000	1,500,000	1,400,000	1,300,000
Hem-Fir	1,600,000	1,500,000	1,300,000	1,200,000	1,200,000	1,300,000	1,200,000	1,100,000
Spruce Pine Fir	1,500,000	1,400,000	1,400,000	1,200,000	1,200,000	1,300,000	1,200,000	1,100,000

¹Listed values are not size adjusted. Size adjustment factors (Cf) are listed in Table 4 of Paragraph 200 of *Standard No 17*.

TABLE 4 –BASE VALUE COMPARISON TABLE

	Select Structural	No. 1	No. 2	No. 3	Stud	Construction	Standard	Utility
Modulus of Elasticity Minimum (E _{min}), psi								
Austrian Spruce - Austria & The Czech Republic	620,000	580,000	550,000	470,000	470,000	510,000	470,000	440,000
Norway Spruce - Estonia, Latvia, & Lithuania	580,000	510,000	470,000	400,000	400,000	440,000	400,000	370,000
Norway Spruce - Finland	550,000	510,000	440,000	400,000	400,000	400,000	370,000	370,000
Norway Spruce - Germany, NE France, & Switzerland	580,000	510,000	440,000	400,000	400,000	400,000	370,000	330,000
Norway Spruce - Norway	660,000	550,000	470,000	440,000	440,000	440,000	400,000	370,000
Norway Spruce - Romania & Ukraine	550,000	510,000	440,000	400,000	400,000	400,000	370,000	370,000
Norway Spruce - Sweden	580,000	510,000	440,000	400,000	400,000	440,000	400,000	370,000
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine	620,000	580,000	510,000	470,000	470,000	470,000	440,000	400,000
Scots Pine - Estonia, Latvia, & Lithuania	550,000	510,000	440,000	400,000	400,000	400,000	370,000	370,000
Scots Pine - Finland	550,000	510,000	470,000	440,000	440,000	440,000	400,000	370,000
Scots Pine - Germany	580,000	510,000	400,000	370,000	370,000	400,000	370,000	330,000
Scots Pine - Sweden	620,000	550,000	440,000	400,000	400,000	440,000	400,000	370,000
Silver Fir (Abies alba) - Germany, NE France, & Switzerland	550,000	510,000	470,000	400,000	400,000	440,000	400,000	370,000
Douglas Fir-Larch	690,000	620,000	580,000	510,000	510,000	550,000	510,000	470,000
Hem-Fir	580,000	550,000	470,000	440,000	440,000	470,000	440,000	400,000
Spruce Pine Fir	550,000	510,000	510,000	440,000	440,000	470,000	440,000	400,000
Specific Gravity (G)								
Austrian Spruce - Austria & The Czech Republic	0.43							
Norway Spruce - Estonia, Latvia, & Lithuania	0.43							
Norway Spruce - Finland	0.42							
Norway Spruce - Germany, NE France, & Switzerland	0.42							
Norway Spruce - Norway	0.43							
Norway Spruce - Romania & Ukraine	0.38							
Norway Spruce - Sweden	0.42							
Scots Pine - Austria & The Czech Republic, Romania, & Ukraine	0.50							
Scots Pine - Estonia, Latvia, & Lithuania	0.45							
Scots Pine - Finland	0.48							
Scots Pine - Germany	0.53							
Scots Pine - Sweden	0.47							
Silver Fir (Abies alba) - Germany, NE France, & Switzerland	0.43							
Douglas Fir-Larch	0.50							
Hem-Fir	0.43							
Spruce Pine Fir	0.42							

ABOUT PLIB

Founded in 1903, Pacific Lumber Inspection Bureau (PLIB) is a non-profit, accredited lumber and wood products inspection and certification agency. PLIB provides lumber-grading and grade-stamping services to the lumber industry along with a wide range of other inspection and certification services for related wood-products manufacturers including Heat Treatment, Wood Packaging, CE Marking, WUI, Glulam, Cross-Laminated Timber, and Wood Trusses.

In January 2019, PLIB merged operations with the West Coast Lumber Inspection Bureau (WCLIB) and with it, the American Institute of Timber Construction (AITC), retaining both the WCLIB and AITC trademarks. With the merger, PLIB added Glulam and Cross-Laminated Timber quality-control certification to its list of signature services and expanded coverage into the southern United States and Europe.

PLIB is accredited by the American Lumber Standards Committee (ALSC), the Canadian Lumber Standards Accreditation Board (CLSAB), North America's only lumber grading accreditation bodies, and by the International Accreditation Service (IAS), a nonprofit, public-benefit corporation and a subsidiary of the International Code Council (ICC), the governing body that develops the International Building Code (IBC).

For more information about PLIB, visit our website at www.plib.org.