

BEARING BLOCK NAIL SPACING DETAIL

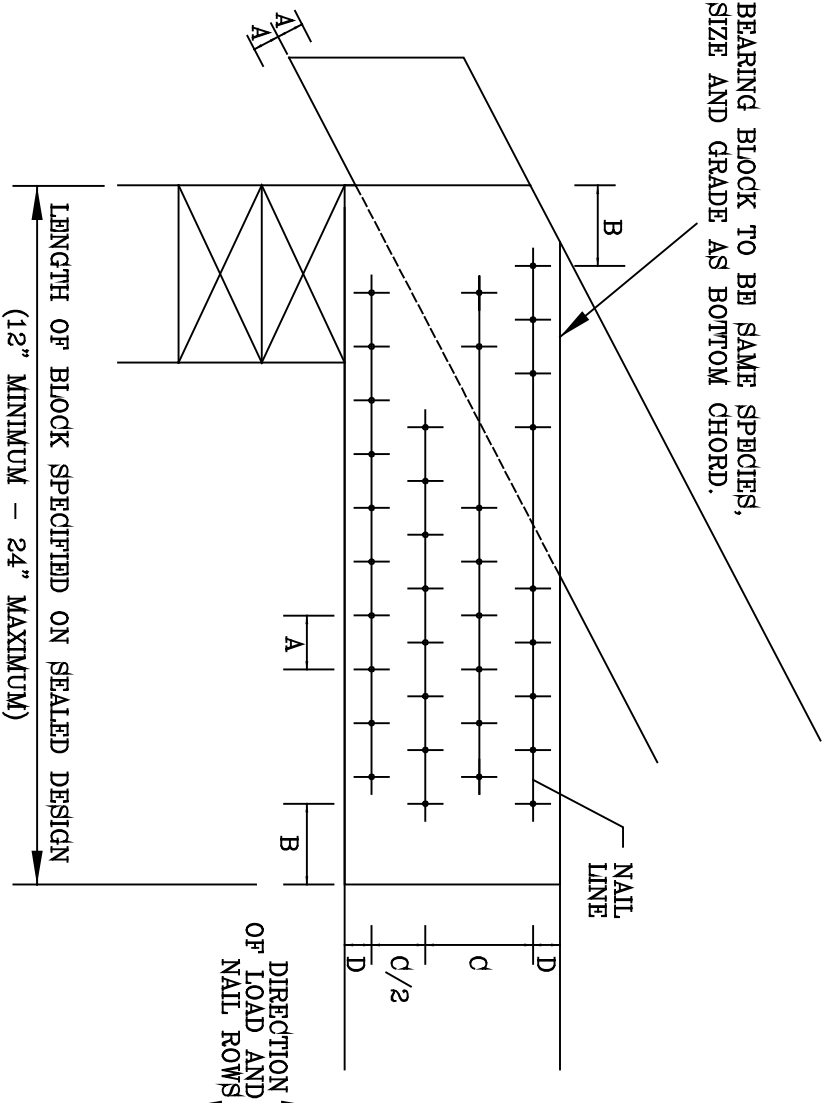
(SPF & NORTHERN SPECIES LUMBER)

VALUES FROM CSA 086-01 ENGINEERING DESIGN IN WOOD

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

- A - SPACING PARALLEL TO GRAIN (16 NAIL DIAMETERS - MIN.)
- B - END DISTANCE (12 NAIL DIAMETERS - MIN.)
- C - SPACING OF NAILS IN A ROW (8 NAIL DIAMETERS - MIN.)
- D - EDGE DISTANCE (4 NAIL DIAMETERS - MIN.)

BEARING BLOCK TO BE SAME SPECIES, SIZE AND GRADE AS BOTTOM CHORD.



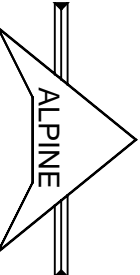
MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

| NAIL TYPE | DIAM. | CHORD SIZE | | | | | |
|------------------|--------|------------|-----|-----|------|------|--|
| | | 2X4 | 2X6 | 2X8 | 2X10 | 2X12 | |
| 2.5" COMMON NAIL | 0.128" | 5 | 8 | 11 | 15 | 18 | |
| 3.0" COMMON NAIL | 0.144" | 4 | 7 | 10 | 13 | 17 | |
| 3.5" COMMON NAIL | 0.160" | 3 | 6 | 9 | 12 | 15 | |
| 2.5" SPIRAL NAIL | 0.109" | 6 | 11 | 15 | 19 | 24 | |
| 3.0" SPIRAL NAIL | 0.122" | 6 | 10 | 13 | 17 | 21 | |
| 3.5" SPIRAL NAIL | 0.152" | 4 | 7 | 10 | 13 | 17 | |
| 3.25" GUN NAIL | 0.128" | 5 | 8 | 11 | 15 | 18 | |

MINIMUM NAIL SPACING DISTANCES ++

| NAIL TYPE | DIAM. | DISTANCES | | | |
|------------------|--------|-----------|--------|--------|------|
| | | A | B | C | D |
| 2.5" COMMON NAIL | 0.128" | 2-1/8" | 1-5/8" | 1-1/8" | 5/8" |
| 3.0" COMMON NAIL | 0.144" | 2-3/8" | 1-3/4" | 1-1/4" | 5/8" |
| 3.5" COMMON NAIL | 0.160" | 2-5/8" | 2" | 1-3/8" | 3/4" |
| 2.5" SPIRAL NAIL | 0.109" | 1-3/4" | 1-3/8" | 7/8" | 1/2" |
| 3.0" SPIRAL NAIL | 0.122" | 2" | 1-1/2" | 1" | 1/2" |
| 3.5" SPIRAL NAIL | 0.152" | 2-1/2" | 1-7/8" | 1-1/4" | 5/8" |
| 3.25" GUN NAIL | 0.128" | 2-1/8" | 1-5/8" | 1-1/8" | 5/8" |

++ - CSA 086-01 ALLOWABLES ROUNDED UP TO NEAREST 1/8"



ALPINE SYSTEMS CORPORATION
CONCORD, ONTARIO
COQUITLAM, BC
BRASSARD, QUEBEC
http://www.alpinesys.com/Specs

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICE HANDLING, INSTALLING AND BRACING BY TPI TRUSS INSTITUTE, 588 DUNDAS DR., SUITE 200, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE SYSTEMS CORPORATION SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CHANGES, VARIATIONS, FIELD CHANGES AND REVISIONS SHALL BE MADE BY THE DESIGNER. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER TPI 96.

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|------|---------------|
| REP | BEARING BLOCK |
| DATE | 12/04/03 |
| DRWG | CNBRGBLK0503 |
| ENG | TJB/AV |