



finnforest

Finnforest USA, Engineered Wood Division

32205 Little Mack Avenue
Roseville, Michigan 48066

Phone: 800/622-5850 • Fax: 586/296-8773

www.finnforestus.com

3-1/2" THICK LVL 2900 F_b-2.0 E BEAMS & HEADERS



NO NAILING • NO CUPPING • NO WASTE

**LOAD CAPACITIES COMPARABLE TO PARALLAM
MORE THAN 40% LIGHTER THAN PARALLAM
A MORE COST EFFECTIVE STRUCTURAL SOLUTION**

Header	Load Conditions	MASTER PLANK	PARALLAM
16'-9"	600 plf Total Load 450 plf Live Load 3.0 inches of bearing req'd 1.15 Load Duration	3 1/2" x 11 7/8" Total weight 152 lbs./Beam	3 1/2" x 11 7/8" Total weight 221 lbs./Beam
18'-9"	700 plf Total Load 500 plf Live Load 3.0 inches of bearing req'd 1.25 Load Duration	3 1/2" x 14" Total weight 179 lbs./Beam	3 1/2" x 14" Total weight 260 lbs./Beam
16'-9"	1000 plf Total Load 700 plf Live Load 3.0 inches of bearing req'd 1.00 Load Duration	3 1/2" x 16" Total weight 206 lbs./Beam	3 1/2" x 16" Total weight 296 lbs./Beam 4.5 inches of bearing req'd

1. Properties of MASTER PLANK and PARALLAM per their respective NER reports.
2. Shear deflection is accounted for.
3. Calculations are from the identical computer program so direct comparisons can be made.



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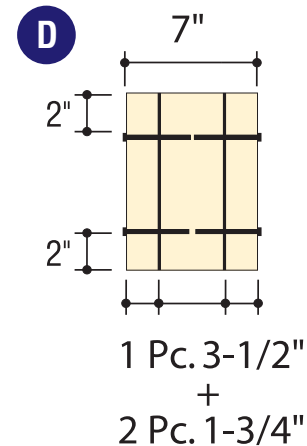
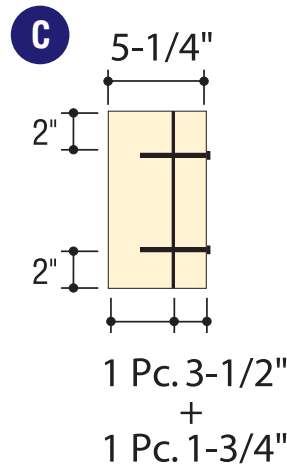
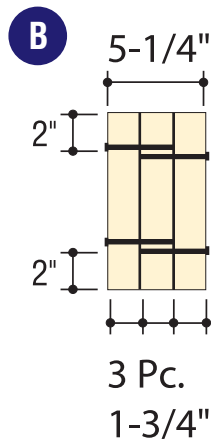
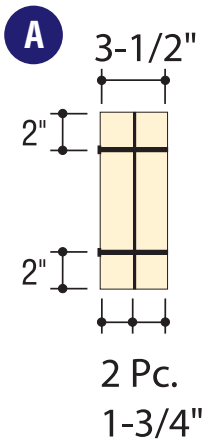
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PRE-ASSEMBLED MASTER PLANK BEAMS & HEADERS

ASSEMBLY PATTERNS



* ADDITIONAL INFORMATION FOLLOWING, SEE CHART BELOW RIGHT.

CAPACITY OF SIDE-LOADED BEAMS

Maximum Uniform Load Applied To Either Outside Member (plf)

MULTIPLE ASSEMBLY
(SEE ABOVE)

2-rows gun nails
.131 dia. x 3-1/4"
@ 8" o.c.

3-rows gun nails
.131 dia. x 3-1/4"
@ 8" o.c.

A
B (see 5)
C
D (see 5, 6)

426
426 (see 5)
426
426 (see 5, 6)

639
639 (see 5)
639
639 (see 5, 6)

*

Beam Depth	Nailing Pattern
7-1/4" to 11-1/4"	2-rows gun nails .131 dia. x 3-1/4" @ 8" o.c.
11-7/8" to 24"	3-rows gun nails .131 dia. x 3-1/4" @ 8" o.c.

- Specific gravity for nail and bolt design is 0.45. Nail design requirements use the 2001 edition of NDS®. NDS® does not purely apply to this connection problem. Nail values assume worst case mode III failure.
- Adding nails in field to create 4" on center nail connections will have design values of 852 plf and 1278 plf respectively.
- The beam must be sized to carry the applied load, the connection can then be checked for adequacy.
- Values listed are for 100% duration. Increase 15% for snow loaded roof conditions and 25% on non-snow loaded roof conditions.
- For 3 piece members, nailing specified is for both sides.
- 7" Wide beams may not be loaded from one side only. They must be loaded from both sides and/or top loaded.