

APRIL 1, 2025

BEARING BLOCK DETAIL-SP BLOCK

MII-BLCK3.5-SP



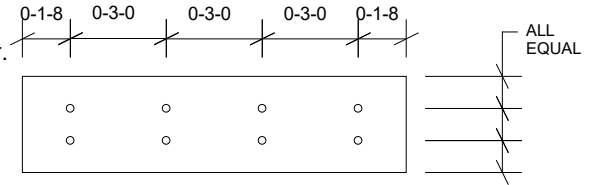
REFER TO INDIVIDUAL TRUSS DESIGN
FOR PLATE SIZES AND LUMBER GRADES

MiTek USA, Inc.

Page 1 of 1

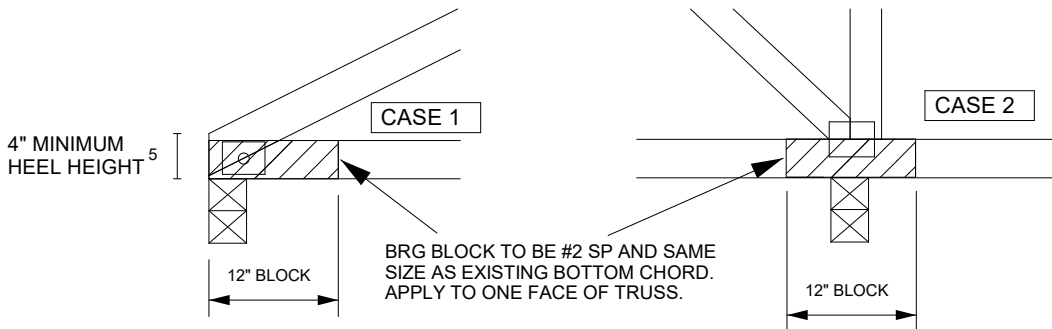
IMPORTANT

This detail to be used only with one ply trusses with a D.O.L. lumber increase of 1.15 or higher. Trusses not fitting these criteria should be examined individually.

**0-3-8 ACTUAL BEARING SIZE**

NAIL PATTERN FOR 2x4
SIMILAR FOR 2x6 OR 2x8

BOTTOM CHORD SIZE AND NAILING PATTERN	LUMBER SPECIE	ALLOWABLE REACTION (lb) CASE 1 ¹	ALLOWABLE REACTION (lb) CASE 2 ⁴	ALLOWABLE BLOCK CAPACITY (lb)	BEARING BLOCK & WOOD BEARING ALLOWABLE			
					CASE 1 (lb)	CASE 1 (FT-IN-16THS)	CASE 2 (LB)	CASE 2 (FT-IN-16THS)
2x4 BOTTOM CHORD 2 ROWS @ 3" O.C. (8 TOTAL NAILS)	SP	2966	3263	976	3942	0-4-10	4239	0-5-0
	DF	3281	3609	932	4213	0-4-8	4541	0-4-14
	HF	2126	2339	858	2985	0-4-15	3197	0-5-4
	SPF	2231	2454	847	3078	0-4-13	3301	0-5-3
2x6 BOTTOM CHORD 3 ROWS @ 3" O.C. (12 TOTAL NAILS)	SP	2966	3263	1464	4430	0-5-4	4727	0-5-9
	DF	3281	3609	1398	4679	0-5-0	5007	0-5-5
	HF	2126	2339	1288	3414	0-5-10	3627	0-6-0
	SPF	2231	2454	1270	3502	0-5-8	3725	0-5-13
2x8 BOTTOM CHORD 4 ROWS @ 3" O.C. (16 TOTAL NAILS)	SP	2966	3263	1952	4918	0-5-13	5215	0-6-2
	DF	3281	3609	1864	5145	0-5-8	5473	0-5-13
	HF	2126	2339	1717	3843	0-6-5	4056	0-6-11
	SPF	2231	2454	1694	3925	0-6-3	4148	0-6-8

**NOTES:**

1. USE LOWER $F_{c\perp}$ value OF TOP PLATE OR TRUSS WOOD SPECIES.
2. USE 1.5" END DISTANCE AND SPACE ROWS OF NAILS EQUALLY WITHIN THE DEPTH OF THE BLOCK, SEE DETAIL ABOVE .
3. NAILS DESIGNATED ARE 10d (0.131" X 3")
4. BEARING FACTOR OF 1.1 APPLIED, SEE CASE 2 DETAIL, END OF BLOCK MORE THAN 3" FROM THE END OF THE CHORD MEMBER.
5. BEARING BLOCK SHALL NOT BE CLIPPED FOR DETAIL TO BE VALID.
6. JOINT SPLICE IS PERMITTED IN A CASE 2 CONDITION.

LOADS BASED ON FOLLOWING F_c PERPENDICULAR VALUES:

SP = 565 psi
DF = 625 psi
HF = 405 psi
SPF = 425 psi

NOTE: VALUES DO NOT INCLUDE MSR LUMBER WITH "E" VALUES
GREATER THAN 1,900,000 PSI OR NON-DENSE GRADE LUMBER.