APRIL 1, 2025

BEARING BLOCK DETAIL-SPF BLOCK

MII-BLCK3.5-SPF

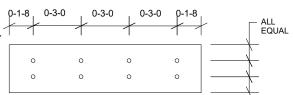


MiTek USA, Inc.

Page 1 of 1

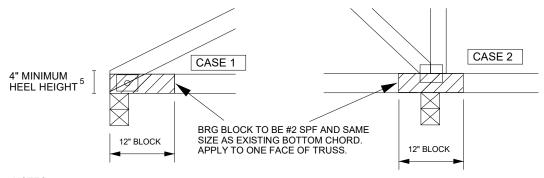
IMPORTANT

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.



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

0-3-8 ACTUAL BEARING SIZE		SIMILAR FOR 2x6 OR 2x8						
BOTTOM CHORD SIZE AND NAILING PATTERN	LUMBER SPECIE	ALLOWABLE REACTION (lb) CASE 1	ALLOWABLE REACTION (lb) 4 CASE 2	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	847	3813	0-4-8	4110	0-4-14
	DF	3281	3609	818	4099	0-4-6	4427	0-4-12
	HF	2126	2339	767	2893	0-4-12	3105	0-5-2
	SPF	2231	2454	758	2990	0-4-11	3213	0-5-1
2x6 BOTTOM CHORD 3 ROWS @ 3" O.C. (12 TOTAL NAILS)	SP	2966	3263	1270	4237	0-5-0	4533	0-5-6
	DF	3281	3609	1226	4508	0-4-13	4836	0-5-3
	HF	2126	2339	1150	3276	0-5-6	3489	0-5-12
	SPF	2231	2454	1138	3369	0-5-5	3592	0-5-10
2x8 BOTTOM CHORD 4 ROWS @ 3" O.C. (16 TOTAL NAILS)	SP	2966	3263	1694	4660	0-5-8	4957	0-5-14
	DF	3281	3609	1635	4917	0-5-4	5245	0-5-10
	HF	2126	2339	1533	3659	0-6-0	3872	0-6-6
	SPF	2231	2454	1517	3748	0-5-14	3971	0-6-4



NOTES:

- 1. USE LOWER Fcperpendicular 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.
- NAILS DESIGNATED ARE 10d (0.131" X 3")
 NAILS DESIGNATED ARE 10d (0.131" X 3")
 BEARING FACTOR OF 1.1 APPLIED, SEE CASE 2 DETAIL, END OF BLOCK MORE THAN 3" FROM THE END OF THE CHORD MEMBER.
 BEARING BLOCK SHALL NOT BE CLIPPED FOR DETAIL TO BE VALID.
 JOINT SPLICE IS PERMITTED IN A CASE 2 CONDITION.

LOADS BASED ON FOLLOWING Fc 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.