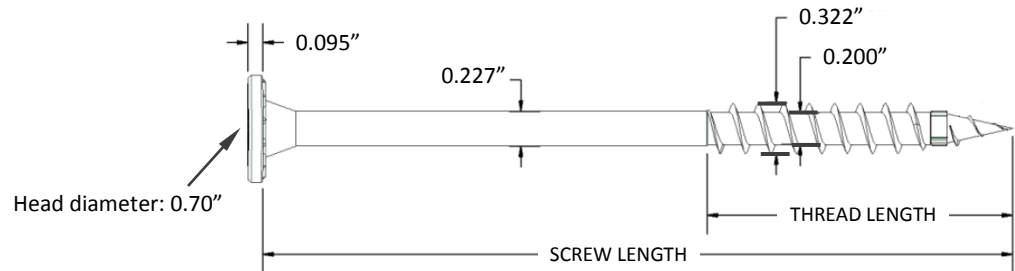




MiTek FlatLOK screws are used for fastening multiply truss girders or EWP beams to transfer loads between plies.

**Screw Dimensions and Applications:**



Product Code	Head Marking	Screw Length (in)	Thread Length (in)	Typical Application
MIFLK278	F2.9FL	2 7/8	1 3/4	2-ply dimensional lumber
MIFLK312	F3.5FL	3 1/2	2	2-ply SCL beams
MIFLK004	F4.0FL	4	2	Interior corridor ledgers
MIFLK412	F4.5FL	4 1/2	2	3-ply dimensional lumber
MIFLK005	F5.0FL	5	2	3-ply SCL beams, 2-ply 3x2 flatchord
MIFLK006	F6.0FL	6	2	4-ply dimensional lumber, 2-ply 4x2 flatchord
MIFLK634	F6.7FL	6 3/4	2	4-ply SCL beams, 2-ply 4x2 flatchord

**Minimum Screw Spacing:**

	SCL	Dimensional Lumber	
		D Fir-L	S-P-F
Spacing parallel to grain	4"	4-1/2"	3-3/4"
End distance parallel to grain	3-3/4"	3-1/2"	2-3/4"
Spacing perpendicular to grain	2-1/4"	2-1/4"	2"
Edge distance perpendicular to grain	1-3/4"	1-1/4"	1"

**Notes:**

1. When fastening is done in multiple rows, the rows must be staggered from each other by 1".
2. Screws installed into the narrow face (edge-wise) of the 2x\_ dimensional lumber must be installed along the centre line of the member in one (1) row only.

**Material Finish:**

Proprietary coating provides protection that exceeds the protection provided by hot-dipped galvanized coatings conforming to ASTM A153. May be used for interior and exterior applications, and in pressure treated (ACQ) wood.



**Lateral Resistances:**

Tables below contain factored lateral resistances for various wood-to-wood framing applications.

General notes:

1. Factored lateral resistances determined in accordance with CSA O86-14 Clause 12.11.
2. Factored lateral resistances apply to two-member single shear connections where both members are of the same specific gravity. Where the members are of different specific gravities, use the lower of the two.
3. Table values are for standard-term load duration, dry service condition, dry and untreated lumber. Apply  $K_D$ ,  $K_{SF}$  and  $K_T$  modification factors where applicable, per CSA O86-14 Clause 12.2.1, Clause 12.11.4.
4. Fasteners are to be driven perpendicular to grain.
5. Use MIFLK004 or MIFLK412 to connect 2x\_ S-P-F (DRY) ledger to wall stud for a factored lateral resistance of 415 lb per screw.

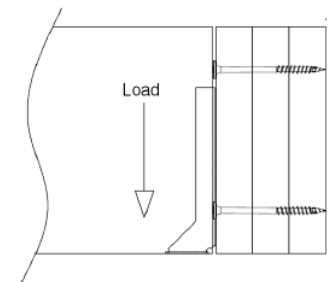
Table 1: 2x_ Truss Ply-To-Ply Connection						
Product Code	Factored Lateral Resistance (lb)					
	HEAD side loading			TIP side loading		
	D Fir-L MSR 2400F <sub>b</sub> -2.0E	MSR 2100F <sub>b</sub> -1.8E MSR 2250F <sub>b</sub> -1.9E	S-P-F MSR 1650F <sub>b</sub> -1.5E	D Fir-L MSR 2400F <sub>b</sub> -2.0E	MSR 2100F <sub>b</sub> -1.8E MSR 2250F <sub>b</sub> -1.9E	S-P-F MSR 1650F <sub>b</sub> -1.5E
MIFLK278 (2PLY)	295	285	255	295	285	255
MIFLK412 (3PLY)	485	465	425	370	355	325
MIFLK006 (4PLY)	485	465	425	355	345	315

Table 2: Lumber-On-Flat Ply-To-Ply Connection			
Product Code	Factored Lateral Resistance (lb)		
	HEAD-side or TIP-side loading		
	D Fir-L MSR 2400F <sub>b</sub> -2.0E	MSR 2100F <sub>b</sub> -1.8E MSR 2250F <sub>b</sub> -1.9E	S-P-F MSR 1650F <sub>b</sub> -1.5E
MIFLK005 (2-3x2)	600	585	520
MIFLK006 (2-4x2)	600	585	530
MIFLK634 (2-4x2)	600	585	540

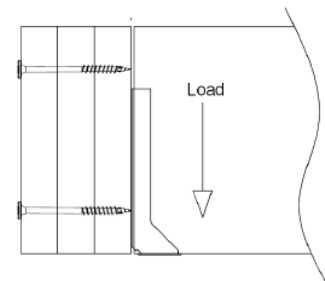
NOTES: Member thickness = 2.5" for 3x2 chord  
Member thickness = 3.5" for 4x2 chord

Table 3: SCL Ply-To-Ply Connection		
Product Code	Factored Lateral Resistance (lb)	
	HEAD side loading	TIP side loading
MIFLK312 (2PLY)	385	385
MIFLK005 (3PLY)	520	400
MIFLK634 (4PLY)	520	400

NOTES:  
1. Member thickness = 1.75"  
2. Table values are based on SCL with Specific Gravity of 0.50.



**Loaded on Head Side**  
(other multi-ply configurations similar)



**Loaded on Tip Side**  
(other multi-ply configurations similar)