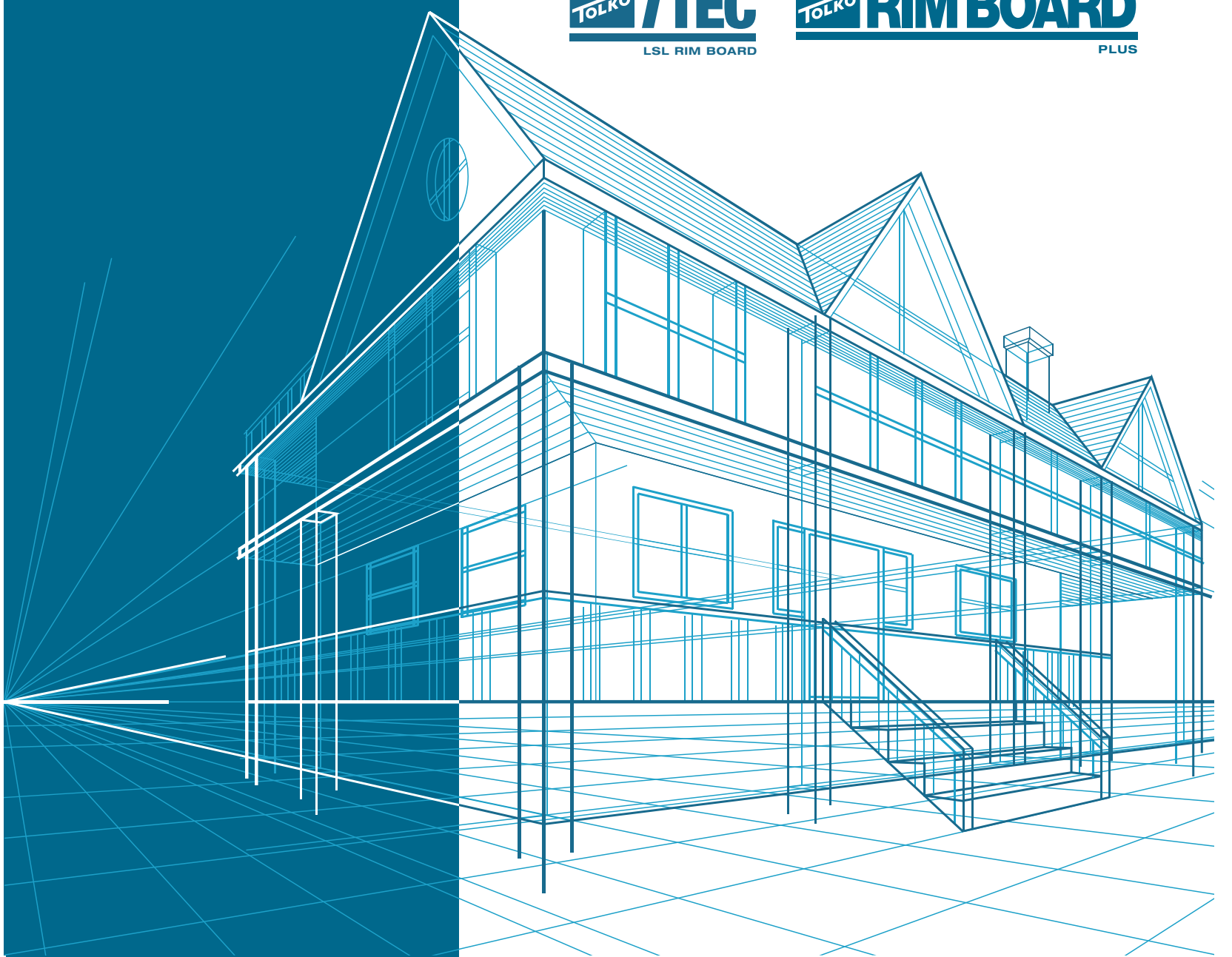
TOLKO

TECHNICAL GUIDE (LSD – CANADA)

T-TEC 1.35E & 1.55E LSL RIM BOARD & TOLKO OSB RIM BOARD PLUS

TOLKO T-TEC LSL RIM BOARD

TOLKO RIM BOARD PLUS



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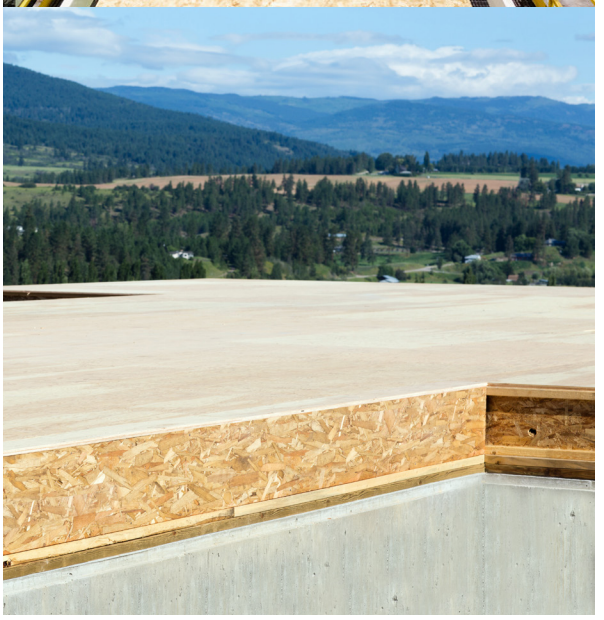

TOLKO RIM BOARD OFFERINGS

Tolko produces T-TEC LSL Rim Board from laminated strand lumber (LSL) and Tolko OSB Rim Board Plus from oriented strand board (OSB). Tolko's rim board offerings are manufactured from highly predictable and uniform engineered wood that is sawn to consistent sizes and resists warping and splitting making them the preferred rim board for builders.

TOLKO T-TEC LSL RIM BOARD

TOLKO RIM BOARD PLUS

RIM BOARD APPLICATIONS

Tolko OSB Rim Board Plus fills the space between the sill plate and the bottom wall plate, or between the top plate and the bottom plate in multi-floor construction. In addition, to filling the void, rim board is an integral structural component that transfers both lateral and vertical forces. To function properly, the rim board must match the depth of framing members.

BUILDING WITH CONFIDENCE

T-TEC LSL Rim Board and Tolko OSB Rim Board Plus are structural-use products that are manufactured in accordance with the Performance Standard for APA EWS Rim Boards PRR-401 ANSI PRR-410, CCMC 13238-L (for OSB Rim Board) and meet or exceed the requirements given in the ICC-ES Acceptance Criteria for Wood-based Rim Board Products, AC124.

	T-TEC LSL Rim Board	Tolko OSB Rim Board Plus
Thickness[1]	1-1/8", 1-1/4", 1-1/2", 1-3/4"	1-1/8", 1-1/4"
Depths[1]	9-1/2", 11-7/8", 14", 16", 18", 20", 22", 24"	9-1/2", 11-7/8", 14", 16", 18", 20", 22", 24"
Lengths[1]	12', 16', 24'	12', 16', 24'
E-Rating	1.35E, 1.55E	0.55E
Zinc Borate Protection	Optional	Optional

1 For promotional purposes, lengths and widths are the actual sizes.

CONTENTS

RIM BOARD INSTALLATION

TABLE 1: NAILING SCHEDULE FOR TOLKO OSB RIM BOARD PLUS AND 1.35E & 1.55E T-TEC LSL

Sheathing to Rim Board	Rim Board to Sill Plate (Toe Nail)	Rim Board to I-Joist/LSL Joist	Sheathing to Rim Board to Bottom Plate
8d common (0.131" x 2-1/2") at 6" o.c. (typical)	8d box (0.113" x 2-1/2") at 6" o.c. (typical)	8d box (0.113" x 2-1/2") top and bottom. This is typical for a Rim Board of 1-1/8". A larger nail size (10d: 0.131"x 2-1/2") may be required for thicker Rim Board or as indicated by the I-Joist/LSL Joist manufacturer.	16d box (0.135" x 3-1/2") or 16d common (0.162" x 3-1/2") - in accordance with the prescriptive requirements of the applicable code.

Notes:

1) The first and last nail between sheathing and rim board (edge nails) shall be 3 inches from each rim board end.
2) The first and last toe nails between rim board and sill plate shall be 3 inches from each rim board end.
3) The lateral load capacity (Table 3) shall not be increased for nail spacings less than 6". The 16d (box or common) nails used to connect the bottom plate to the Rim Board through the sheathing do not reduce the lateral load capacity of the Rim Board provided that the 8d nail spacing (sheathing-Rim Board) is 6" o.c. and the 16d nail spacing (bottom plate-sheathing-Rim Board) is in accordance with the prescriptive requirements of the applicable code.

FIGURE 1: ATTACHMENT DETAILS WHERE RIM BOARDS ABUT

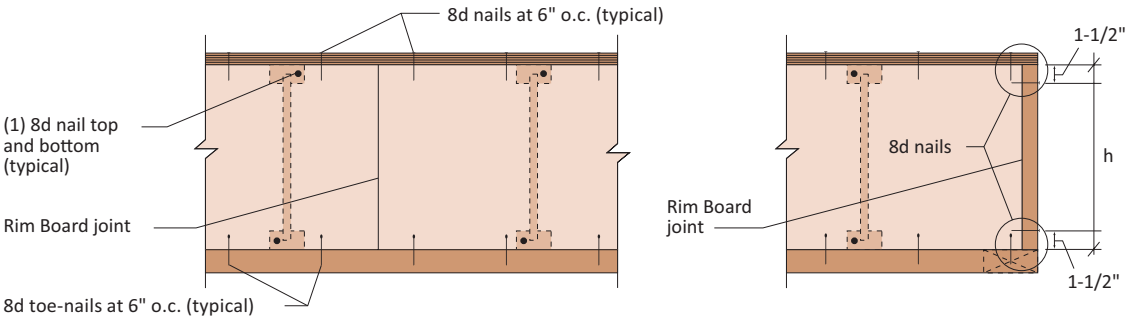

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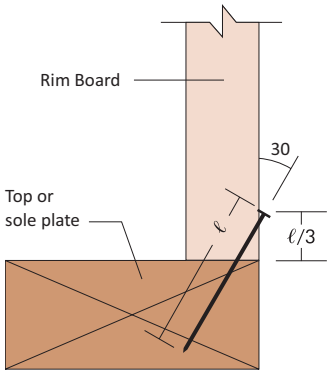
FIGURE 2: TOE-NAIL CONNECTION AT RIM BOARD



Source: APA Performance Rated Rim Boards® – Form No.345K

PROPOSITION 65 WARNING

WARNING

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhailing wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

WARNING

This product can expose you to chemicals including methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

TABLE 2: FASTENERS DESIGN FOR TOLKO OSB RIM BOARD PLUS AND 1.35E & 1.55E T-TEC LSL[a, b]

Equivalent Specific Gravity (S.G.)					
Nails		Nails and Wood Screws[e]		Bolts and Lag Screws[c, d]	
Withdrawal Load		Lateral Load		Lateral Load	
Installed in Edge	Installed in Face	Installed in Edge	Installed in Face	Installed in Face	
				Parallel to Grain	Perpendicular to Grain
0.42	0.44	0.47	0.50	0.50	0.50

(a) Fastener design values calculated using the tabulated equivalent specific gravities given above must be adjusted by the applicable adjustment factors specified in the CSA086 for connections.
(b) Fasteners spacing, and end and edge distances must be as specified in the CSA086.
(c) Bolts and lag screws shall only be installed into the face (plank orientation) of the LSL or Rim Board.
(d) The capacities for the 1/2-inch diameter lag screws/bolts installed into Tolko LSL or Rim Board for ledger attachment shall be in accordance with Table 3.
(e) For Tolko OSB Rim Board Plus, a specific gravity of 0.5 could be used for generating the factored lateral resistances of nails or screws fastened on the face.

DESIGN PROPERTIES RIM BOARD APPLICATION

TABLE 3: FACTORED RESISTANCES FOR TOLKO OSB RIM BOARD PLUS AND 1.35E & 1.55E T-TEC LSL[a]

Grade	Thickness (in.)	Factored Horizontal Shear Load, ØH[b,c] (lbf/ft)	Factored Uniform Vertical Load, ØV[d] (lbf/ft)					Factored Concentrated Vertical Load, ØP[e] (lbf)	Factored Lateral Resistance for 1/2-inch dia. Lag Screws/Bolts, ØZ (lbf)
			Depth						
			≤ 16"	18"	20"	22"	24"	Depth ≤ 24"	
Tolko OSB Rim Board Plus	1-1/8	243	7,033	6,743	6,018	5,293	4,640	5,075	584
	1-1/4								
1.35E T-TEC LSL	1-1/4	304	7,830	6,308	6,308	6,308	6,308	5,510	934
	1-1/2	274	9,353	7,975	7,975	7,975	7,975		
	1-3/4	243	10,948	10,948	10,948	10,948	10,948		
1.55E T-TEC LSL	1-1/8	286	7,033	4,930	4,930	4,930	4,930	6,670	734
	1-1/4	280	7,830	7,468	7,468	7,468	7,468	6,670	1,001
	1-1/2	243	9,353	8,700	8,700	8,700	8,700	6,670	1,001

(a) The tabulated lateral load factored resistance is based on the short-term load duration. The vertical uniform and vertical concentrated load are not permitted to be increased for any load duration. The tabulated values are limited to dry service conditions.

(b) The horizontal lateral load transfer resistance is for shear forces parallel to the rim joist under short-term and dry service conditions only. For compliance with the NBC 2020, the value shall be multiplied by 0.93. The fastening of the floor shall meet or exceed Part 9 of the NBC 2020.

(c) The nailing schedule for sheathing to rim is based on 8d box nails (0.113" x 2-1/2") at 6" on center, and for the rim board to the sill plate with 8d box nails (0.113" x 2-1/2" toe-nailed) at 6" on center. Values assume the floor joists or blocking are fastened to the rim board and the sill plate at max. 24" on center in accordance with Part 9 of the NBC 2020. Commercial framing connectors may be used to achieve lateral load capacities exceeding the values shown in this table. Calculations shall be based on the equivalent relative density values listed in Table 2 subjected to the nailing spacing provided in Table 4.

(d) The factored uniform vertical load capacity is based on the strength of the rim board and may need to be reduced based on the bearing capacity of the supporting wall plate.

(e) Factored concentrated vertical load capacity is based on a 4-1/2" bearing length. The bearing load must be simultaneously satisfied along with the concentrated load capacity.

Rim Boards subjected to a combination of uniform and concentrated vertical loads - First, the factored applied concentrated load shall not exceed the factored concentrated vertical load capacity of the rim board, based on a 4-1/2" bearing length over the floor sheathing attached to the top of the rim board. Second, the factored applied concentrated load shall be calculated as an equivalent uniform load based on the applied loading length increased by a 45° load distribution through decking and plate on both sides of the concentrated load, as applicable. The equivalent factored uniform load shall be added to the factored applied uniform load to determine the total factored applied uniform load, which shall not exceed the factored vertical uniform load of the Rim Board. If the total factored applied uniform load exceeds the factored vertical uniform load, use appropriate squash blocks, double Rim Boards, or a higher grade Performance Rated Rim Board to carry the concentrated vertical load.

Example:

A mechanical device distributes a weight of 1,000 lbf for a distance of 12 inches along the top of a 1-1/8-inch x 16-inch Tolko OSB Rim Board Plus through 23/32-inch floor sheathing. In addition to the mechanical device, the Rim Board carries a uniform live load of 2,000 lbf/ft and a concentrated live load of 2,000 lbf.

Check:

(1) Factored concentrated vertical load = 1.25*1,000 lbf + 1.5*2,000= 4,250 lbf < 1.0*5,075 =5,075 lbf (for a KD = 1.0). OK.

(2) Equivalent factored uniform load = (1.25*1,000+1.5*2,000) / [(12 + 2 * 23/32) / 12] = 3,795 lbf/ft. Total equivalent factored uniform bearing load = 3,795 +1.5* 2,000 = 6,795 lbf/ft. Use Tolko OSB Rim Board Plus that has an allowable bearing (vertical) load capacity of 7,033 lbf/ft.

Source: Form No. W345K • © 2009 APA - The Engineered Wood Association • www.apawood.org

FIGURE 3: 2X LEDGER TO RIM BOARD ATTACHMENT DETAIL

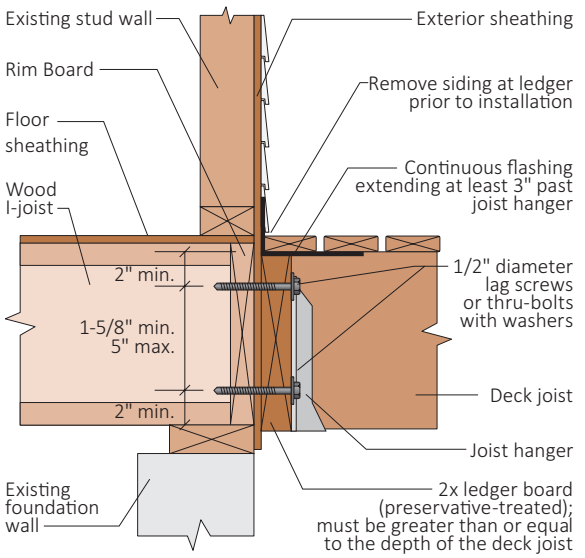


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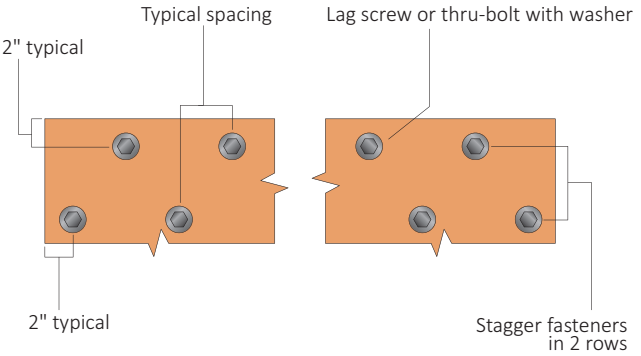
FIGURE 4: FASTENER SPACING FOR DECK LEDGER



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NAILING DISTANCES ON THE EDGE AND FACE

TABLE 4: MINIMUM NAIL SPACING [a]

Product	Thickness (in.)	Orientation[d]	Pennyweight/Type [e, f]	Max. Diameter (in.)	Max. Length (in.)	Minimum End Distance (in.)	Minimum Nail Spacing per Row (in)	
							Single Row	Multiple Rows[b,c,i]
Tolko OSB Rim Board Plus	1-1/8	Face[h]	8d; 10d; 12d	0.148	3-1/4	2-1/2	2	
	1-1/4	Edge[g]	8d; 10d; 12d	0.148	3-1/4	2-1/2	6	
1.35E T-TEC LSL Rim Board	1-1/4 ≤ thickness < 1-1/2	Edge[g]	8d and smaller	0.131	2-1/2	2	4	Not recommended
			10d; 12d	0.148	3-1/4	2	4	
			16d	0.162	3-1/2	2-1/2	5	
		Face[h]	8d and smaller	0.131	2-1/2	7/8	1	1
			10d; 12d	0.148	3-1/4	7/8	1	1
			16d	0.162	3-1/2	7/8	1-1/2	1-1/2
	1-1/2 ≤ thickness < 3-1/2	Edge[g]	8d and smaller	0.131	2-1/2	1	2	3
			10d; 12d	0.148	3-1/4	2	3	4
			16d	0.162	3-1/2	2-1/2	3	6
		Face[h]	8d and smaller	0.131	2-1/2	1/2	1	1
			10d; 12d	0.148	3-1/4	1/2	1	1
			16d	0.162	3-1/2	7/8	1-1/2	1-1/2
1.55E T-TEC LSL	1-1/8	Edge[g]	8d and smaller	0.131	2-1/2	2	4	Not recommended
			10d; 12d	0.148	3-1/4	2-1/2	5	
			16d	0.162	3-1/2	3	6	
		Face[h]	8d and smaller	0.131	2-1/2	7/8	1	1
			10d; 12d	0.148	3-1/4	7/8	1	1
			16d	0.162	3-1/2	7/8	1-1/2	1-1/2
	1-1/4	Edge[g]	8d and smaller	0.131	2-1/2	2	4	Not recommended
			10d; 12d	0.148	3-1/4	2	4	
			16d	0.162	3-1/2	2-1/2	5	
		Face[h]	8d and smaller	0.131	2-1/2	7/8	1	1
			10d; 12d	10d; 12d	3-1/4	7/8	1	1
			16d	16d	3-1/2	7/8	1-1/2	1-1/2
	1-1/2	Edge[g]	8d and smaller	0.131	2-1/2	1	2	3
			10d; 12d	10d; 12d	3-1/4	2	3	4
			16d	16d	3-1/2	2-1/2	3	6
		Face[h]	8d and smaller	0.131	2-1/2	1/2	1	1
			10d; 12d	10d; 12d	3-1/4	1/2	1	1
			16d	16d	3-1/2	7/8	1-1/2	1-1/2

Notes:

(a) Edge distance shall be sufficient to prevent splitting, but not less than permitted in CSA086.

(b) Multiple rows must be spaced 1/2 inch or more from each other and offset one-half of the tabulated minimum nailing spacing, as shown in APA PR-284C Figure 1.

(c) Multiple rows must be equally spaced about the centerline of the edge of face (whichever applies).

(d) Face orientation applies to nails driven into the face of the member, such that the long axis of the nail is perpendicular to the wide face of the strands. Edge orientation applies to nails driven into the edge of the member.

(e) 16d sinker nails (0.148" x 3-1/4") may be spaced the same as the 12d common wire nails (0.14" x 3-1/4").

(f) Nails listed are common wire nails. For box nails, the spacing and end distance requirements of the next lower penny weight common nail may be used: e.g. a 16d box nail may be spaced the same as a 10d or 12d common nail.

(g) Nail penetration for edge nailing shall not exceed 2 inches for 16d common wire nails (0.162" x 3-1/2") and 2-1/2" for 10d and 12d nails (common or box).

(h) Tabulated closest on-center spacing for face orientation is applicable to nails that are installed in rows parallel to the grain (length) of the member. For nails installed in tows perpendicular to the direction of the grain (width/depth) of the member, the closest on-center spacing for face orientation shall be sufficient to prevent splitting of the member.

(i) The multiple row end spacing is 1-1/2 inches.

DESIGN PROPERTIES EDGEWISE BENDING

TABLE 5A: SPECIFIED EDGEWISE BENDING STRENGTHS AND MODULUS OF ELASTICITY[a]

Product/Grade	Modulus of Elasticity, E[d] (psi)	Specified flexural strength, fb[b] (psi)	Specified compression perpendicular to grain, $f_{c\perp}$[e] (psi)	Specified shear parallel to grain, fv (psi)
1.35E T-TEC LSL	1.35 X 10^6	3420[c]	1370	580
1.55E T-TEC LSL - 1 1/8"	1.55 X 10^6	4360[c]	1640	845
1.55E T-TEC LSL - 1 1/4" & 1 1/2"	1.55 X 10^6	4360[c]	1640	975

(a) The tabulated values are specified strengths and modulus of elasticity for normal load duration. All values, except E, are permitted to be adjusted for other load durations as permitted by the code. The tabulated values are limited to the dry service conditions.

(b) Tabulated flexural stress (fb) may be increased by 4 percent when the member qualifies as a repetitive member as defined in CSA086.

(c) Tabulated value is based on a reference depth of 12 inches. For other depths, when loaded edgewise, fb shall be modified by (12/d)0.125, where d = depth in inches. For depths less than 2-1/2 inches, the factor for the 2-1/2-inch depth shall be used.

(d) Edgewise apparent modulus of elasticity. For a simple span member, deflection for a uniform load could be calculated as follows:

$$\delta_T = \frac{270wL^4}{Ebh^3}$$

where:
δ_T = total deflection (in)
w = applied uniform loads (lbf/ft)
L = design span (ft)
E = modulus of elasticity (lbf/in^2)
b = beam width (in)
h = beam depth (in)

(e) The size factor for bearing, KZcp, shall be equal to 1.0.

TABLE 5B: FACTORED EDGEWISE BENDING STRENGTHS AND MODULUS OF ELASTICITY[a]

Product/Grade	Modulus of Elasticity, E[c] (psi)	Specified flexural strength, fb[b] (psi)	Specified compression perpendicular to grain, $f_{c\perp}$[e] (psi)	Specified shear parallel to grain, fv[d] (psi)
Tolko Rim Board Plus	0.55 X 10^6	1,100	910	260

Rim Board Properties - APA Form W345 CA - 2021

(a) All tabulated values are applicable to the standard-term lod duration and permitted to be adjusted for other load durations in accordance with the applicable building code except for E.

(b) Specified edgewise bending strength shall be permitted for engineered design of spans of 4 ft. or less. For longer spans over openings, use glulam, I-Joists or SCL headers.

(c) Edgewise apparent modulus of elasticity. For a simple span member, deflection for a uniform load could be calculated as follows:

$$\delta_T = \frac{270wL^4}{Ebh^3}$$

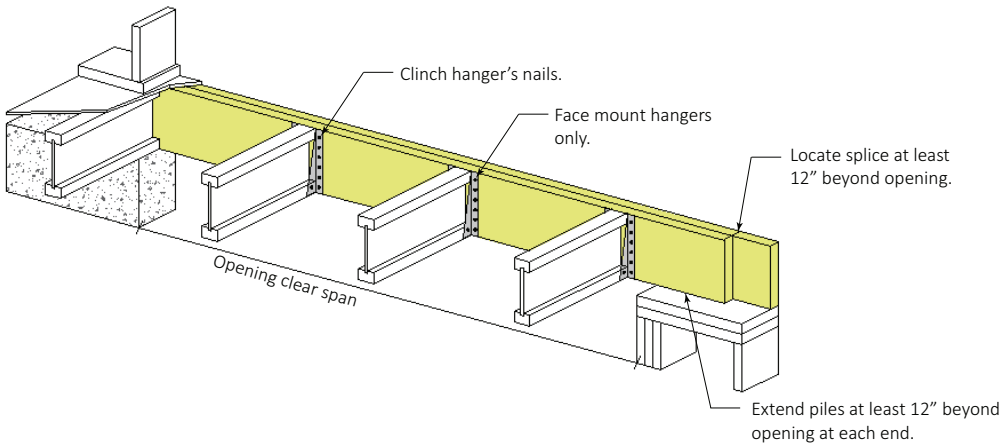
where:
δ_T = total deflection (in)
w = applied uniform loads (lbf/ft)
L = design span (ft)
E = modulus of elasticity (lbf/in^2)
b = beam width (in)
h = beam depth (in)

(d) Specified edgewise shear strength is permitted to be increased to 502 psi for mat-formed panels such as OSB.

(e) Specified edwise compressive strength perpendicular to grain at 0.04-in. deformation, which is permitted to be increased to 1,000 psi for mat-formed panel such as OSB.

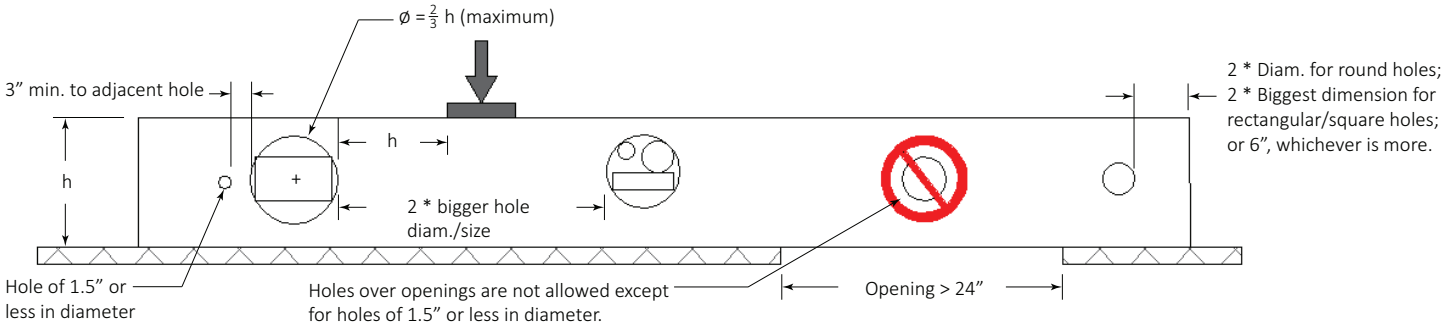
RIM BOARD HEADER APPLICATION

FIGURE 5: HEADER APPLICATION



ALLOWABLE HOLES

FIGURE 6: RIM BOARD HOLES SPECIFICATION



Notes:

1) The maximum allowable round hole size for rim boards is limited to 2/3 of the rim board depth. Rectangular/square holes shall be circumscribed in the maximum allowable round holes, and the corners shall not be over-cut. Pre-drilling corners with a 1-inch diameter bit is recommended.
2) Holes should not occur in rim board installed over openings, such as doors or windows, where the rim board is not fully supported, except that holes of 1-1/2 inches or less in size are permitted provided they are positioned at the mid-depth and in the middle 1/3 of the span.
3) When concentrated loads are present on the rim board (loads not supported by other vertical-load-carrying members such as squash blocks), holes should not be placed in the rim board within a distance equal to the depth of the rim board from the area of loading.
4) For multiple holes, the clear spacing between holes should be at least two times the diameter of the larger hole, or twice the length of the longest side of the longest rectangular hole. This minimum hole spacing does not apply to holes of 1-1/2" or less in diameter, which can be placed anywhere in the rim board except that the clear distance to the adjacent hole should be 3 inches minimum.
5) Closely grouped holes are permitted if the group perimeter meets the requirements for the round hole.

ALLOWABLE PLF LOADS HEADER APPLICATION

TABLE 6: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO OSB RIM BOARD PLUS 1-1/8”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16		
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)
TOLKO RIM BOARD PLUS	1-1/8	1	7.25			1270			720			403	235		257	136		177	57	83	98														
			9.25			1620			1078			658			419	282		290	119		161	61	88	101												
			9.5			1664			1108			694			442	306		306	129		170	66	95	107												
			11.25			1970			1312			974			621			430	214		239	109		151	63	91	103	40	56	75						
			11.875			2080			1385			1037			693			479	252		267	129		169	74	107	116	47	66	83						
		2	7.25			2540			1440			807	470		514	272		355	114	167	197	58	83	123												
			9.25			3240			2157			1316			839	565		580	238		322	122	176	203	70	99	139	44	60	99						
			9.5			3328			2216			1388			885	612		612	258		340	132	191	215	76	108	146	48	65	105						
			11.25			3941			2624			1949			1243			860	429		479	219		303	127	182	207	80	112	150	53	72	112		
			11.875			4160			2770			2075			1386			959	504		535	258		338	149	215	232	94	132	167	63	86	125		
			14			4905			3265			2446			1929			1336			746	423		473	244		324	154	221	235	103	145	177		
			16			5605			3732			2795			2233			1747			976			619	365		426	230		309	154	220	233		
		3	7.25			3810			2246			1259	705		802	408		554	172	250	307	88	124	193	51	68	131								
			9.25			4861			3236			2053			1310	847		906	357		504	183	264	318	105	149	217	66	90	156	44	57	116		
			9.5			4992			3324			2166			1382	918		956	387		532	198	287	336	114	162	229	72	98	165	48	62	123		
			11.25			5912			3936			2948			1941			1343	643		749	329		474	190	274	324	120	168	234	80	108	176		
			11.875			6240			4155			3112			2163			1497	756		835	387		529	224	323	362	141	199	262	94	129	197		
			14			7357			4898			3669			2932			2085			1164	634		738	367		507	231	332	367	155	217	277		
			16			8408			5598			4193			3350			2726			1524	947		968	548		665	345		483	231	330	365		
		4	7.25			5080			2995			1679	940		1070	544		739	229	334	410	117	166	258	68	91	175	42	54	125					
			9.25			6481			4315			2738			1746	1130		1208	476		672	244	353	424	141	198	289	88	120	208	59	76	155		
			9.5			6656			4432			2889			1843	1224		1274	516		709	264	383	448	153	216	306	96	131	220	64	83	164		
			11.25			7883			5248			3931			2588			1791	858		998	439		632	254	365	432	160	224	312	107	145	234		
			11.875			8321			5540			4150			2884			1997	1009		1114	516		705	299	431	483	188	265	349	126	172	262		
			14			9810			6531			4892			3909			2780			1553	846		985	489		676	308	443	490	206	290	369		
			16			11211			7465			5591			4467			3635			2032	1263		1290	731		887	460		644	308	440	487		

Design Assumptions

1) Header span is the center-to-center distance of the supports and is only valid for simple span applications.
2) The allowable loads represent the capacity in pounds per lineal foot (plf) of length.
3) Tabulated values are valid for uniform loads only.
4) Minimum end bearing of 4 1/2”.
5) Deflection of L/360 for the live load and L/240 for the total load.
6) Multiple-ply members shall have the same thickness and grade and be properly connected. Refer to the multi-ply connections on Table 15 to 16.
7) Vertical load transfer at bearings is limited to a maximum specified strength of 609 psi (4.2 MPa) as per ASTM D7672 and CSA086.
8) Tabulated factored total loads shall not be increased for a load duration KD > 1.0.
9) Joints in Rim Board shall not be located within the header span.
10) Tabulated values assume full lateral support of the compression edge. Full support is considered to be a maximum unbraced length of 24”.
11) Tabulated values are valid for dry service conditions, where the moisture content in service does not exceed 16%, as in most covered structures.

How to use this table

1) Both total and live loads, unfactored and factored, shall be checked. Where the unfactored deflection resistance is blank, the factored total load governs the design.Header weight shall be included in the total load.
2) Header weight shall be included in the total load.
3) Select the appropriate Span [center-to-center of min. end bearing, or clear span + (4.5/12)].
4) Scan vertically to find the proper ply thickness, number of plies, and depth with the capacities that exceed the actual unfactored and factored live and total loads.
5) Verify the min. end bearing length of 4-1/2”.
6) Hanger capacities may be reduced for the selected rim board thicknesses. Refer to the hanger manufacturer for appropriate reductions.
7) For loading conditions not shown, use CSD® software or contact your Tolko representative.

TABLE 7: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO OSB RIM BOARD PLUS 1-1/4”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16		
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)	
TOLKO RIM BOARD PLUS	1-1/4	1	7.25			1411			800			448	261		285	151		197	63	92	109														
			9.25			1800			1198			731			466	314		322	132		179	67	98	113												
			9.5			1849			1231			771			492	340		340	143		189	73	106	119	42	60	81									
			11.25			2189			1458			1082			691			478	238		266	122		168	70	101	115	44	62	83						
			11.875			2311			1539			1152			770			533	280		297	143		188	83	119	128	52	73	93						
		2	7.25			2822			1600			896	522		571	302		394	127	185	218	65	92	137											
			9.25			3601			2397			1462			932	628		645	264		358	135	196	226	78	110	154	49	66	111						
			9.5			3698			2462			1542			984	680		680	287		378	146	213	239	85	120	163	53	72	117						
			11.25			4379			2916			2165			1382			956	476		533	244		337	141	203	230	88	124	166	59	80	125		
			11.875			4622			3078			2305			1540			1066	560		594	287		376	166	239	257	104	147	186	70	95	139		
			14			5450			3628			2718			2143			1484			829	470		525	272		360	171	246	261	114	161	197		
			16			6228			4147			3106			2482			1941			1085			688	406		473	255		343	171	244	259		
		3	7.25			4233			2496			1399	783		891	453		616	191	278	341	97	138	215	56	76	146								
			9.25			5401			3596			2282			1455	942		1006	397		560	203	294	353	117	165	241	74	100	173	49	63	129		
			9.5			5547			3693			2407			1535	1020		1062	430		591	220	319	373	127	180	255	80	109	183	53	69	137		
			11.25			6569			4374			3276			2156			1492	715		832	366		526	211	304	360	133	186	260	89	120	195		
			11.875			6934			4617			3458			2404			1664	840		928	430		587	249	359	402	156	221	291	105	143	219		
			14			8175			5443			4077			3257			2316			1294	705		820	408		563	257	369	408	172	241	308		
			16			9343			6220			4659			3723			3029			1693	1053		1075	609		739	383		537	257	366	405		
		4	7.25			5644			3328			1866	1045		1189	604		821	255	371	455	130	184	286	75	102	194	47	60	139					
			9.25			7202			4795			3042			1940	1256		1342	529		747	271	392	471	157	221	322	98	133	231	66	84	173		
			9.5			7396			4924			3210			2047	1360		1416	574		788	293	426	498	170	240	340	107	145	245	71	92	183		
			11.25			8759			5832			4368			2875			1990	953		1109	488		702	282	406	481	177	249	347	119	161	260		
			11.875			9245			6156			4611			3205			2218	1121		1238	574		783	332	479	537	209	295	388	140	191	292		
			14			10900			7257			5436			4343			3089			1725	940		1094	544		751	342	492	545	229	322	410		
			16			12457			8294			6213			4964			4039			2258	1404		1434	812		986	511		716	342	489	541		

See Notes and Design Assumptions from Table 6.

TABLE 8: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO 1.35E T-TEC LSL 1-1/4”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16		
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)	
1.35E T-TEL LSL	1-1/4	1	7.25			3152			2100	1241		1493	635	950	954	367	548	661	155	229	370	79	116	235	45	66	162								
			9.25			3252			2167			1624			1298	763		1045	322	479	586	165	243	373	95	139	258	60	86	188	40	56	143		
			9.5			3252			2167			1624			1298	827		1081	349	519	616	178	264	392	103	151	271	65	93	198	43	61	150		
			11.25			3251			2166			1623			1297			1080	579		808	296	440	540	171	253	373	108	157	272	72	104	207		
			11.875			3251			2165			1622			1297			1080	681		808	349	519	598	202	298	413	127	186	302	85	123	230		
		2	7.25			6304			4200	2482		2986	1271	1901	1908	735	1097	1323	310	459	741	158	232	471	91	132	325	57	81	237					
			9.25			6505			4334			3248			2596	1527		2091	644	959	1172	330	487	747	190	279	516	120	173	376	80	113	286		
			9.5			6505			4334			3248			2596	1655		2162	698	1039	1233	357	528	785	206	302	542	130	187	396	87	123	301		
			11.25			6503			4332			3246			2594			2160	1159		1617	593	881	1080	343	506	747	216	315	545	144	208	415		
			11.875			6503			4331			3245			2594			2160	1363		1617	698	1038	1196	404	596	827	254	372	604	170	246	460		
			14			6501			4329			3243			2592			2157			1615	1144		1289	662	982	1072	416	614	825	279	408	628		
			16			6499			4327			3241			2590			2156			1613			1287	988		1070	622		915	416	612	798		
		3	7.25			9457			6301	3724		4659	1906	2851	2978	1103	1646	2064	465	689	1156	238	349	736	137	198	508	86	121	370	58	78	281		
			9.25			9758			6501			4872			3895	2291		3243	966	1439	1829	495	731	1166	286	418	805	180	259	588	120	170	447		
			9.5			9758			6501			4872			3895	2482		3243	1047	1559	1924	536	793	1226	310	454	847	195	281	618	130	185	470		
			11.25			9755			6498			4869			3892			3240	1739		2426	890	1322	1686	515	759	1166	324	473	852	217	312	648		
			11.875			9755			6497			4868			3891			3240	2045		2425	1047	1557	1867	606	895	1291	381	558	944	255	369	718		
			14			9751			6494			4865			3888			3236			2422	1716		1933	993	1473	1608	625	921	1288	418	612	981		
			16			9749			6491			4862			3885			3234			2419			1931	1482		1605	933		1372	625	919	1198		
		4	7.25			12609			8401	4965		6212	2542	3802	3970	1471	2195	2753	620	919	1542	317	465	982	183	264	677	115	162	494	77	105	374		
			9.25			13011			8668			6496			5193	3055		4325	1289	1919	2439	660	975	1554	381	558	1074	240	346	784	161	227	596		
			9.5			13011			8668			6496			5193	3310		4324	1396	2079	2565	714	1057	1635	413	605	1129	260	375	825	174	246	627		
			11.25			13007			8664			6492			5189			4321	2319		3235	1187	1763	2248	687	1013	1554	432	631	1136	289	417	864		
			11.875			13006			8663			6491			5188			4320	2727		3234	1396	2076	2489	808	1193	1721	508	744	1258	340	492	958		
			14			13002			8659			6487			5184			4315			3230	2288		2578	1324	1964	2144	833	1228	1718	558	816	1309		
			16			12998			8655			6483			5180			4312			3226			2574	1976		2140	1244		1830	833	1225	1597		

See Notes and Design Assumptions from Table 6.

TABLE 9: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO 1.35E T-TEC LSL 1-1/2”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16					
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)	
1.35E T-TEC LSL	1-1/2	1	7.25			3782			2520	1489		1791	762	1140	1145	441	658	794	186	275	444	95	139	283	55	79	195									
			9.25			3903			2600			1949			1558	916		1255	386	575	703	198	292	448	114	167	309	72	103	226	48	68	171			
			9.5			3903			2600			1948			1558	993		1297	418	623	739	214	317	471	124	181	325	78	112	237	52	74	180			
			11.25			3902			2599			1947			1556			1296	695		970	356	529	648	206	303	448	129	189	327	86	125	249			
			11.875			3902			2599			1947			1556			1296	818		970	418	622	717	242	358	496	152	223	362	102	147	276			
		2	7.25			7565			5041	2979		3583	1525	2281	2290	882	1317	1588	372	551	889	190	279	566	110	158	390	69	97	284	46	63	216			
			9.25			7807			5201			3898			3116	1833		2510	773	1151	1407	396	585	896	229	335	619	144	207	452	96	136	343			
			9.5			7806			5200			3897			3116	1986		2594	837	1247	1479	428	634	942	248	363	651	156	225	475	104	148	361			
			11.25			7804			5198			3895			3113			2592	1391		1941	712	1058	1296	412	607	896	259	378	655	173	250	498			
			11.875			7804			5198			3895			3113			2592	1636		1940	837	1245	1435	484	716	992	305	446	725	204	295	552			
			14			7801			5195			3892			3110			2589			1938	1372		1547	794	1178	1286	500	737	990	335	489	754			
			16			7799			5193			3890			3108			2587			1935			1544	1186		1284	746		1098	500	735	958			
		3	7.25			11348			7561	4468		5591	2288	3421	3573	1324	1975	2477	558	827	1388	286	418	883	165	238	609	104	146	444	69	94	337			
			9.25			11710			7801			5847			4674	2750		3892	1160	1727	2195	594	877	1399	343	502	966	216	311	706	145	204	536			
			9.5			11710			7801			5846			4674	2979		3892	1256	1871	2308	643	951	1471	372	545	1016	234	338	742	157	222	564			
			11.25			11707			7798			5843			4670			3889	2087		2911	1068	1587	2023	618	911	1399	389	568	1022	260	375	778			
			11.875			11706			7797			5842			4669			3888	2454		2910	1256	1868	2240	727	1074	1549	458	670	1132	306	443	862			
			14			11702			7793			5838			4666			3884			2907	2059		2320	1191	1768	1929	750	1106	1546	502	734	1178			
			16			11698			7789			5835			4662			3880			2903			2317	1779		1926	1120		1647	750	1103	1437			
		4	7.25			15131			10082	5958		7454	3050	4562	4764	1765	2634	3303	744	1103	1850	381	558	1178	220	317	813	138	194	592	93	126	449			
			9.25			15614			10402			7796			6232	3666		5190	1546	2302	2927	792	1170	1865	458	670	1289	288	415	941	193	272	715			
			9.5			15613			10401			7795			6232	3972		5189	1675	2495	3078	857	1269	1962	496	726	1355	312	451	990	209	296	752			
			11.25			15609			10397			7791			6227			5185	2782		3882	1424	2116	2698	824	1215	1865	519	757	1363	347	500	1037			
			11.875			15608			10396			7790			6226			5184	3272		3881	1675	2491	2987	969	1432	2066	610	893	1510	409	591	1150			
			14			15603			10391			7785			6221			5179			3876	2745		3094	1589	2357	2573	1000	1474	2061	670	979	1571			
			16			15598			10386			7780			6216			5174			3871			3089	2372		2568	1493		2196	1000	1471	1916			

See Notes and Design Assumptions from Table 6.

TABLE 10: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO 1.35E T-TEC LSL 1-3/4”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16					
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)	
1.35E T-TEC LSL	1-3/4	1	7.25			4413			2940	1737		2090	889	1330	1336	514	768	926	217	321	518	111	162	330	64	92	227	40	56	166						
			9.25			4554			3033			2273			1817	1069		1464	451	671	820	231	341	523	133	195	361	84	121	263	56	79	200			
			9.5			4553			3033			2273			1817	1158		1513	488	727	863	250	370	550	144	212	379	91	131	277	61	86	210			
			11.25			4552			3032			2272			1816			1512	811		1132	415	617	756	240	354	522	151	221	382	101	146	290			
			11.875			4552			3032			2272			1816			1512	954		1131	488	726	837	282	417	579	178	260	423	119	172	322			
			14			4550			3030			2270			1814			1510			1130	800		902	463	687	750	291	430	577	195	285	440			
			16			4549			3029			2269			1813			1509			1129			901	691		749	435		640	291	429	559			
		2	7.25			8826			5881	3475		4181	1779	2661	2672	1029	1536	1852	434	643	1037	222	325	660	128	185	455	81	113	332	54	73	252			
			9.25			9108			6067			4547			3635	2138		2928	902	1343	1641	462	682	1046	267	390	722	168	242	527	112	159	400			
			9.5			9107			6067			4547			3635	2317		3027	977	1455	1726	500	740	1100	289	424	759	182	263	554	122	172	421			
			11.25			9105			6065			4545			3632			3024	1623		2264	831	1234	1512	480	709	1045	302	442	764	202	292	581			
			11.875			9104			6064			4544			3632			3024	1909		2263	977	1453	1675	565	835	1158	356	521	846	238	344	644			
			14			9101			6061			4541			3629			3021			2261	1601		1805	926	1375	1501	583	860	1155	391	571	880			
			16			9099			6058			4538			3626			3018			2258			1802	1383		1498	871		1281	583	858	1118			
		3	7.25			13240			8821	5213		6522	2669	3992	4169	1544	2305	2890	651	965	1619	333	488	1031	193	277	711	121	170	518	81	110	393			
			9.25			13662			9101			6821			5453	3208		4541	1353	2015	2561	693	1024	1632	401	586	1128	252	363	823	169	238	626			
			9.5			13661			9101			6821			5453	3475		4540	1466	2183	2693	750	1110	1716	434	636	1186	273	394	866	183	259	658			
			11.25			13658			9097			6817			5449			4537	2435		3397	1246	1851	2361	721	1063	1632	454	663	1193	304	438	908			
			11.875			13657			9096			6816			5448			4536	2863		3395	1466	2179	2614	848	1253	1807	534	782	1321	357	517	1006			
			14			13652			9092			6811			5443			4531			3391	2402		2707	1390	2062	2251	875	1290	1804	586	856	1374			
			16			13648			9088			6807			5439			4527			3387			2703	2075		2247	1307		1921	875	1287	1677			
		4	7.25			17653			11762	6951		8697	3559	5322	5559	2059	3073	3854	868	1287	2159	444	651	1374	257	370	948	162	227	691	108	147	524			
			9.25			18216			12135			9095			7271	4277		6055	1804	2686	3415	924	1365	2176	534	781	1504	336	484	1098	225	318	834			
			9.5			18215			12135			9094			7270	4634		6054	1955	2911	3591	1000	1480	2289	579	848	1581	364	526	1155	244	345	878			
			11.25			18211			12130			9090			7265			6049	3246		4529	1662	2468	3148	961	1418	2176	605	884	1591	405	584	1210			
			11.875			18209			12128			9088			7264			6048	3818		4527	1955	2906	3485	1131	1671	2410	712	1042	1762	477	689	1341			
			14			18203			12122			9082			7258			6042			4522	3203		3610	1853	2750	3002	1167	1720	2405	782	1142	1832			
			16			18198			12117			9077			7252			6036			4516			3604	2767		2996	1742		2562	1167	1716	2236			

See Notes and Design Assumptions from Table 6.

TABLE 11: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO 1.55E T-TEC LSL 1-1/8”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16					
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)	
1.55E T-TEC LSL	1-1/8	1	7.25			2928			1951	1282		1462	656	982	1095	380	567	760	160	237	426	82	120	271	47	68	187									
			9.25			2927			1950			1461			1168	789		973	333	496	673	170	252	429	98	144	297	62	89	217	41	59	165			
			9.5			2927			1950			1461			1168	855		973	360	537	708	184	273	451	106	156	312	67	97	228	45	64	173			
			11.25			2926			1949			1460			1167			972	599		727	306	456	581	177	262	429	111	163	314	74	108	239			
			11.875			2926			1949			1460			1167			972	704		727	360	536	581	208	308	476	131	193	348	88	127	265			
		2	7.25			5857			3902	2565		2925	1313	1965	2191	760	1135	1520	320	475	852	164	241	543	95	137	375	59	84	274	40	55	208			
			9.25			5855			3900			2923			2337	1578		1946	666	992	1347	341	504	859	197	289	594	124	179	434	83	118	330			
			9.5			5855			3900			2923			2337	1710		1946	721	1075	1417	369	547	903	213	313	625	134	195	457	90	128	347			
			11.25			5853			3899			2921			2335			1944	1198		1455	613	912	1162	355	524	859	223	327	629	149	216	479			
			11.875			5853			3898			2921			2334			1944	1409		1455	721	1073	1162	417	617	952	262	386	696	176	255	531			
			14			5851			3896			2919			2333			1942			1453			1160	684		964	430	636	825	288	423	720			
			16			5849			3894			2917			2331			1940			1451			1158			963	643		823	430	635	718			
		3	7.25			8785			5853	3848		4388	1970	2947	3419	1140	1702	2371	481	713	1329	246	361	847	142	206	585	89	126	427	60	82	325			
			9.25			8783			5851			4385			3505	2368		2919	999	1488	2102	511	757	1341	296	434	927	186	269	678	124	177	516			
			9.5			8782			5850			4385			3505	2565		2919	1082	1613	2186	554	821	1410	320	470	975	201	292	713	135	192	543			
			11.25			8780			5848			4382			3503			2916	1797		2183	920	1368	1744	532	786	1342	335	491	982	224	325	748			
			11.875			8779			5847			4381			3502			2916	2113		2183	1082	1610	1743	626	926	1450	394	579	1087	264	383	829			
			14			8776			5845			4379			3499			2913			2180			1740	1026		1447	646	954	1237	432	634	1080			
			16			8774			5842			4376			3496			2910			2177			1737			1444	964		1235	646	952	1078			
		4	7.25			11714			7805	5130		5850	2627	3930	4559	1520	2270	3162	641	951	1773	328	482	1130	190	274	781	119	169	570	80	110	433			
			9.25			11710			7801			5847			4674	3157		3892	1332	1985	2803	682	1009	1788	394	579	1237	248	359	904	166	236	688			
			9.5			11710			7801			5846			4674	3420		3892	1443	2151	2915	738	1094	1880	427	627	1300	269	390	951	180	257	724			
			11.25			11707			7798			5843			4670			3889	2396		2911	1226	1824	2325	710	1049	1789	447	654	1309	299	433	997			
			11.875			11706			7797			5842			4669			3888	2818		2910	1443	2147	2324	835	1235	1933	525	772	1450	352	511	1105			
			14			11702			7793			5838			4666			3884			2907			2320	1368		1929	861	1272	1650	577	846	1441			
			16			11698			7789			5835			4662			3880			2903			2317			1926	1286		1647	861	1270	1437			

See Notes and Design Assumptions from Table 6.

TABLE 12: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO 1.55E T-TEC LSL 1-1/4”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16					
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)	
1.55E T-TEC LSL	1-1/4	1	7.25			3253			2168	1425		1625	729	1091	1217	422	630	844	178	264	473	91	133	301	52	76	208									
			9.25			3252			2167			1624			1298	877		1081	370	551	748	189	280	477	109	160	330	69	99	241	46	65	183			
			9.5			3252			2167			1624			1298	950		1081	400	597	787	205	304	502	118	174	347	74	108	253	50	71	193			
			11.25			3251			2166			1623			1297			1080	665		808	340	506	646	197	291	477	124	181	349	83	120	266			
			11.875			3251			2165			1622			1297			1080	782		808	400	596	645	231	343	528	146	214	387	97	142	295			
		2	7.25			6507			4336	2850		3250	1459	2183	2435	844	1261	1689	356	528	946	182	267	603	105	152	416	66	94	304	44	61	231			
			9.25			6505			4334			3248			2596	1754		2162	740	1102	1497	378	561	955	219	321	660	138	199	482	92	131	367			
			9.5			6505			4334			3248			2596	1900		2162	801	1195	1574	410	608	1004	237	348	694	149	216	507	100	142	386			
			11.25			6503			4332			3246			2594			2160	1331		1617	681	1013	1292	394	582	955	248	363	699	166	240	532			
			11.875			6503			4331			3245			2594			2160	1565		1617	801	1193	1291	463	686	1057	292	428	774	195	284	590			
			14			6501			4329			3243			2592			2157			1615			1289	760		1072	478	707	917	320	470	800			
			16			6499			4327			3241			2590			2156			1613			1287			1070	714		915	478	705	798			
		3	7.25			9761			6504	4275		4875	2189	3275	3799	1266	1891	2635	534	793	1477	273	401	941	158	229	650	99	141	475	66	91	361			
			9.25			9758			6501			4872			3895	2631		3243	1110	1654	2336	568	841	1490	328	482	1030	207	299	753	138	197	573			
			9.5			9758			6501			4872			3895	2850		3243	1202	1792	2429	615	912	1567	356	523	1084	224	325	792	150	214	603			
			11.25			9755			6498			4869			3892			3240	1996		2426	1022	1520	1938	591	874	1491	372	545	1091	249	361	831			
			11.875			9755			6497			4868			3891			3240	2348		2425	1202	1789	1937	695	1029	1611	438	643	1208	293	426	921			
			14			9751			6494			4865			3888			3236			2422			1933	1140		1608	718	1060	1375	481	705	1201			
			16			9749			6491			4862			3885			3234			2419			1931			1605	1071		1372	718	1058	1198			
		4	7.25			13015			8672	5701		6500	2918	4367	5066	1689	2522	3513	712	1057	1970	364	535	1255	211	305	867	132	188	633	89	122	481			
			9.25			13011			8668			6496			5193	3508		4325	1480	2205	3115	757	1122	1987	438	643	1374	276	399	1005	185	263	765			
			9.5			13011			8668			6496			5193	3800		4324	1603	2390	3238	820	1216	2089	475	697	1445	299	433	1057	200	285	804			
			11.25			13007			8664			6492			5189			4321	2662		3235	1363	2027	2584	788	1165	1988	496	727	1454	332	481	1108			
			11.875			13006			8663			6491			5188			4320	3131		3234	1603	2386	2582	927	1373	2148	584	857	1611	391	568	1228			
			14			13002			8659			6487			5184			4315			3230			2578	1520		2144	957	1414	1834	641	940	1601			
			16			12998			8655			6483			5180			4312			3226			2574			2140	1429		1830	957	1411	1597			

See Notes and Design Assumptions from Table 6.

TABLE 13: ALLOWABLE PLF LOADS - RIM BOARD HEADERS TOLKO 1.55E T-TEC LSL 1-1/2”

Product Grade	Single Ply Thickness (in)	# of plies	Depth (in)	Header Span (ft)																															
				2			3			4			5			6			8			10			12			14			16					
				Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)	Unfactored Deflection Resistance		Factored Total Load (PLF)
				Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)		Live Load (PLF)	Total Load (PLF)	
1.55E T-TEC LSL	1-1/2	1	7.25			3904			2601	1710		1950	875	1310	1461	506	756	1013	213	317	568	109	160	362	63	91	250									
			9.25			3903			2600			1949			1558	1052		1297	444	661	898	227	336	573	131	193	396	82	119	289	55	78	220			
			9.5			3903			2600			1948			1558	1140		1297	481	717	944	246	364	602	142	209	416	89	130	304	60	85	231			
			11.25			3902			2599			1947			1556			1296	798		970	408	608	775	236	349	573	149	218	419	99	144	319			
			11.875			3902			2599			1947			1556			1296	939		970	481	715	774	278	411	634	175	257	464	117	170	354			
		2	7.25			7809			5203	3420		3900	1751	2620	2922	1013	1513	2026	427	634	1136	218	321	724	126	183	500	79	112	365	53	73	277			
			9.25			7807			5201			3898			3116	2104		2595	888	1323	1796	454	673	1146	263	386	792	165	239	579	111	157	441			
			9.5			7806			5200			3897			3116	2280		2594	962	1434	1889	492	729	1205	285	418	833	179	260	609	120	171	463			
			11.25			7804			5198			3895			3113			2592	1597		1941	817	1216	1550	473	699	1146	298	436	838	199	288	639			
			11.875			7804			5198			3895			3113			2592	1878		1940	962	1431	1549	556	823	1269	350	514	929	234	341	708			
			14			7801			5195			3892			3110			2589			1938			1547	912		1286	574	848	1100	384	564	960			
			16			7799			5193			3890			3108			2587			1935			1544			1284	857		1098	574	846	958			
		3	7.25			11714			7805	5130		5850	2627	3930	4559	1520	2270	3162	641	951	1773	328	482	1130	190	274	781	119	169	570	80	110	433			
			9.25			11710			7801			5847			4674	3157		3892	1332	1985	2803	682	1009	1788	394	579	1237	248	359	904	166	236	688			
			9.5			11710			7801			5846			4674	3420		3892	1443	2151	2915	738	1094	1880	427	627	1300	269	390	951	180	257	724			
			11.25			11707			7798			5843			4670			3889	2396		2911	1226	1824	2325	710	1049	1789	447	654	1309	299	433	997			
			11.875			11706			7797			5842			4669			3888	2818		2910	1443	2147	2324	835	1235	1933	525	772	1450	352	511	1105			
			14			11702			7793			5838			4666			3884			2907			2320	1368		1929	861	1272	1650	577	846	1441			
			16			11698			7789			5835			4662			3880			2903			2317			1926	1286		1647	861	1270	1437			
		4	7.25			15618			10406	6841		7800	3502	5240	6079	2027	3026	4216	855	1269	2364	437	643	1507	253	366	1041	159	225	760	106	146	578			
			9.25			15614			10402			7796			6232	4209		5190	1776	2646	3738	909	1346	2384	526	772	1649	331	479	1206	222	315	918			
			9.5			15613			10401			7795			6232	4560		5189	1924	2868	3886	985	1459	2507	570	837	1734	358	520	1268	240	342	965			
			11.25			15609			10397			7791			6227			5185	3195		3882	1635	2432	3100	946	1398	2385	596	873	1745	399	577	1330			
			11.875			15608			10396			7790			6226			5184	3757		3881	1924	2863	3099	1113	1647	2578	701	1029	1933	469	682	1473			
			14			15603			10391			7785			6221			5179			3876			3094	1824		2573	1148	1697	2200	769	1128	1921			
			16			15598			10386			7780			6216			5174			3871			3089			2568	1715		2196	1148	1693	1916			

See Notes and Design Assumptions from Table 6.

MULTIPLE MEMBER CONNECTIONS: TOP LOADED MEMBERS

TABLE 14: MULTIPLE MEMBER CONNECTIONS: TOP LOADED MEMBERS (1.35E & 1.55E LSL)

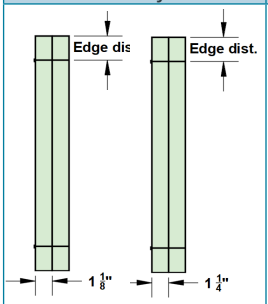
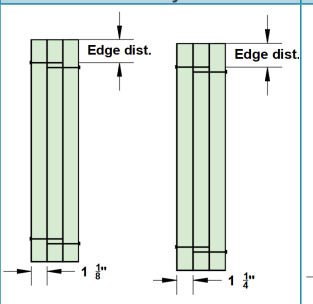
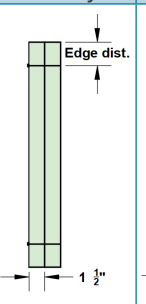
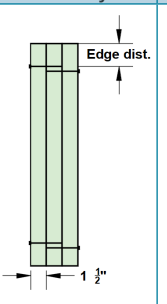
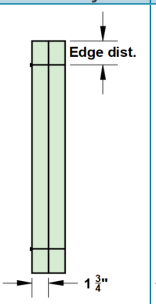
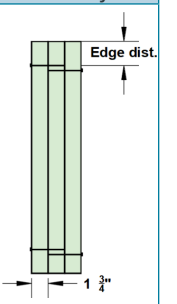
Ply Thickness (in.)	# of Plies	Fastener Type	Depth (in.)	# Rows	On-Center Spacing (in.)	Location	Min. Edge Distance (in.)	Min. End Distance (in.)	Min. Distance Between Rows of Fasteners (in.)
1 1/8, 1 1/4	2	8d box nail (0.113" x 2.5")	7 1/4	2	12	One side (front or back)	1.5	3	3
			9 1/4, 9 1/2, 11 1/4, 11 7/8	3					
			14, 16	4					
	3		7 1/4	2	12	Both side (front and back) - stagger nails on the opposite side by 6"	1.5	3	3
			9 1/4, 9 1/2, 11 1/4, 11 7/8	3					
			14, 16	4					
1 1/8	4	SDW22438	7 1/4, 9 1/4, 9 1/2	2	12	One side (front or back)	1.5	6	4
			11 1/4, 11 7/8, 14	3					
			16	4					
1 1/4		SDW22500, WS5, WSWH5	7 1/4, 9 1/4, 9 1/2	2	12	One side (front or back)	1.5	6	4
			11 1/4, 11 7/8, 14	3					
			16	4					
1 1/2	2	10d box nail (0.128" x 3")	7 1/4	2	12	One side (front or back)	1.5	3	3
			9 1/4, 9 1/2, 11 1/4, 11 7/8	3					
			14, 16	4					
	3		7 1/4	2	12	Both side (front and back) - stagger nails on the opposite side by 6"	1.5	3	3
			9 1/4, 9 1/2, 11 1/4, 11 7/8	3					
			14, 16	4					
	4	SDW22600, WS6, WSWH6	7 1/4, 9 1/4, 9 1/2	2	12	One side (front or back)	1.5	6	4
			11 1/4, 11 7/8, 14	3					
			16	4					
1 3/4	2	16d box nail (0.135" x 3.5")	7 1/4	2	12	One side (front or back)	1.5	3	3
			9 1/4, 9 1/2, 11 1/4, 11 7/8	3					
			14, 16	4					
	3		7 1/4	2	12	Both side (front and back) - stagger nails on the opposite side by 6"	1.5	3	3
			9 1/4, 9 1/2, 11 1/4, 11 7/8	3					
			14, 16	4					
	4	SDW22634, WSWH634	7 1/4, 9 1/4, 9 1/2	2	12	One side (front or back)	1.5	6	4
			11 1/4, 11 7/8, 14	3					
			16	4					

Note:

1) Top Loads (uniform or concentrated) must be applied evenly across the entire total width. Otherwise, the side-loaded connections (uniform or concentrated) shall be used.

MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED UNIFORM SIDE LOADS

TABLE 15: MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED UNIFORM SIDE LOADS - NAILS

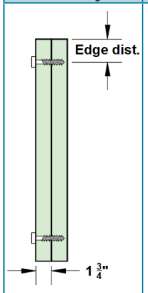
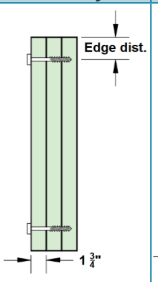
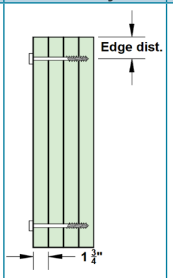
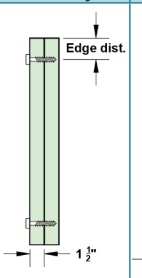
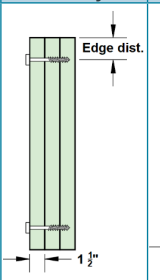
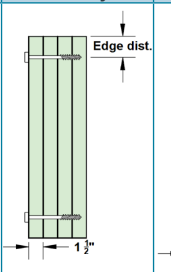
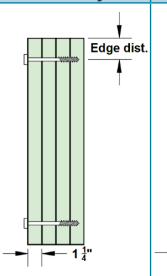
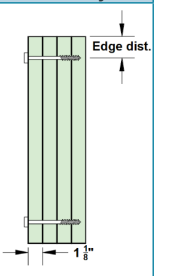
			Assembly A	Assembly B	Assembly A	Assembly B	Assembly A	Assembly B
								
Fastener type			8d Box Nail (0.113" x 2.5")		10d Box Nail (0.128" x 3")		16d Box Nail (0.135" x 3.5")	
Side member thickness			1-1/8" or 1-1/4"	1-1/8" or 1-1/4"	1-1/2"	1-1/2"	1 3/4"	1 3/4"
Main member thickness			1-1/8" or 1-1/4"	1-1/8" or 1-1/4"	1-1/2"	1-1/2"	1 3/4"	1 3/4"
Min. depth (in.)	# of Rows	Fastener o.c. spacing (in.)	Max. Allowable Uniform Side Loads (PLF)					
7.25	2	12	400	300	500	375	560	420
9.25	3	12	600	450	750	565	840	630
14	4	12	800	600	1000	750	1120	840

Tabulated values shall not be increased for a load duration $K_D > 1.0$

Min. nails distances:

1) Min. nail edge distance = 1.5"
2) Min. nail end distance = 3"
3) Min. distance between rows of nails = 3"
4) Min. distance between nails in a row = 6"
5) Nails staggering distance = o.c. spacing/2
6) For other nails o.c. spacings, multiply the tabulated PLF load by 12/o.c. spacing (max. fasteners o.c. spacing = 24")
7) For three-ply members (Assembly B), min. o.c. spacing = 12"

TABLE 16: MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED UNIFORM SIDE LOADS - SIMPSON STRONG-DRIVE® SDW SCREWS

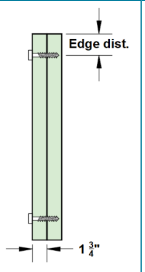
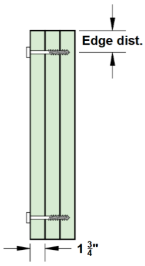
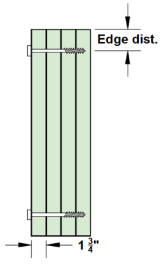
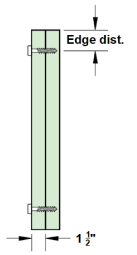
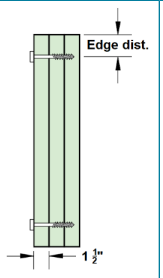
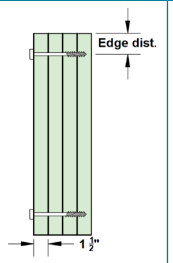
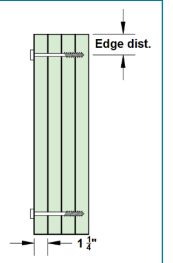
			Assembly A	Assembly B	Assembly F	Assembly A	Assembly B	Assembly F	Assembly F	Assembly F
										
Fastener type			SDW22338	SDW22500	SDW22634	SDW22300	SDW22458	SDW22600	SDW22500	SDW22438
Fastener nominal length (in.)			3 3/8	5	6 3/4	3	4 5/8	6	5	4.375
Side member thickness			1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"	1 1/8"
Main member thickness			1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"	1 1/8"
Min. depth (in.)	# of Rows	Fastener o.c. spacing (in.)	Max. Allowable Uniform Side Loads (PLF)							
7.25	2	12	1265	1070	950	1220	1200	1095	795	730
11.25	3	12	1895	1605	1425	1830	1800	1640	1190	1095
16	4	12	2530	2135	1900	2440	2395	2190	1585	1460

Tabulated values shall not be increased for a load duration $K_D > 1.0$

Min. screws distances:

1) Min. fastener edge distance = 1.5"
2) Min. fastener end distance = 6"
3) Min. distance between rows of fasteners = 4"
4) Fasteners staggering distance = o.c. spacing/2
5) For other fasteners o.c. spacings, multiply the tabulated PLF load by 12/o.c. spacing (max. fasteners o.c. spacing = 24"
6) Fasteners installed on one side only

TABLE 17: MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED UNIFORM SIDE LOADS - MITEK MIFLK SCREWS

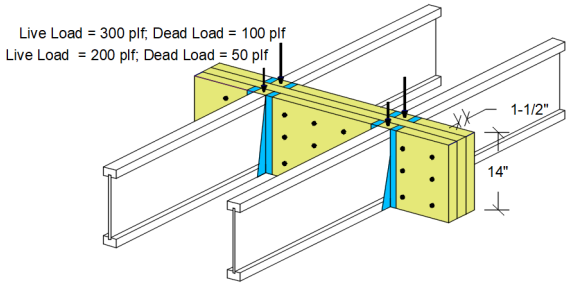
			Assembly A	Assembly B	Assembly F	Assembly A	Assembly B	Assembly F	Assembly F
									
		Fastener type	MIFLK312	MIFLK005	MIFLK634	MIFLK278	MIFLK412	MIFLK22600	MIFLK005
		Fastener nominal length (in.)	3 1/2	5	6 3/4	3	4 5/8	6	5
		Side member thickness	1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"
		Main member thickness	1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"
Min. depth (in.)	# of Rows	Fastener o.c. spacing (in.)	Max. Allowable Uniform Side Loads (PLF)						
7.25	2	12	1540	1200	1060	1180	1005	895	690
11.25	3	12	2310	1800	1590	1770	1505	1340	1030
16	4	12	3080	2400	2120	2360	2005	1785	1375

Tabulated values shall not be increased for a load duration KD > 1.0

Min. screws distances:

1) Min. fastener edge distance = 1.5”
2) Min. fastener end distance = 6”
3) Min. distance between rows of fasteners = 4”
4) Fasteners staggering distance = o.c. spacing/2
5) For other fasteners o.c. spacings, multiply the tabulated PLF load by 12/o.c. spacing (max. fasteners o.c. spacing = 24”
6) Fasteners installed on one side only

FIGURE 7: UNIFORM SIDE LOAD DESIGN EXAMPLE

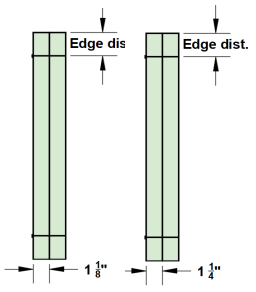
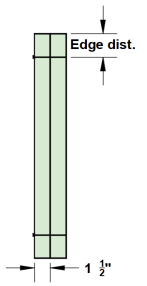
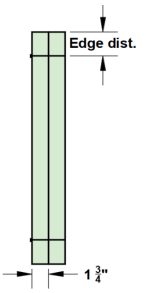
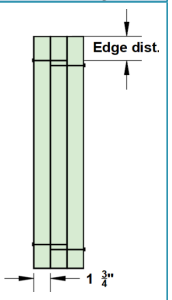


Note:

1) Verify that a 3-ply, 1-1/2” x 14” header can support the total factored load of 1.5*300 + 1.25*100 = 575 PLF with proper live and total deflection criteria.
2) The actual factored uniform load applied to the outer ply member is 575 PLF.
3) Three 1-1/2” plies (Assembly B), 3 rows of 10d Box nails (0.128” x 3”) at 12” o.c. spacing fastened on both sides (face and back) are good for 750 PLF factored uniform side load. Therefore, use 3 rows of 10d Box nails (0.128” x 3”) at 12” o.c. spacing.
4) Since nails are required on both sides (face and back) for 3-ply members, stagger fasteners on the back side by half the distance between the fasteners on the face side.
5) Verify hanger capacity. Capacity reduction may be required for the selected header thickness. Refer to hanger manufacturer for appropriate reductions.

MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED CONCENTRATED SIDE LOADS

TABLE 18: MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED CONCENTRATED SIDE LOADS - NAILS

		Assembly A	Assembly A	Assembly A	Assembly B
					
Fastener type		8d Box Nail (0.113" x 2.5")	10d Box Nail (0.128" x 3")	16d Box Nail (0.135" x 3.5")	
Side member thickness		1 1/8" or 1 1/4"	1 1/2"	1 3/4"	1 3/4"
Main member thickness		1 1/8" or 1 1/4"	1 1/2"	1 3/4"	1 3/4"
Min. depth (in.)	Total # of Fasteners	Max. Allowable Uniform Side Loads (PLF)			
7.25	6	1200	1500	1680	1260
9.25	8	1600	2000	2240	1680
9.5	12	2400	3000	3360	2520
11.25	16	3200	4000	4480	3360
14	18	3600	4500	5040	3780
16	24	4800	6000	6720	5040

Tabulated values shall not be increased for a load duration KD > 1.0

FIGURE 8: 6 NAILS

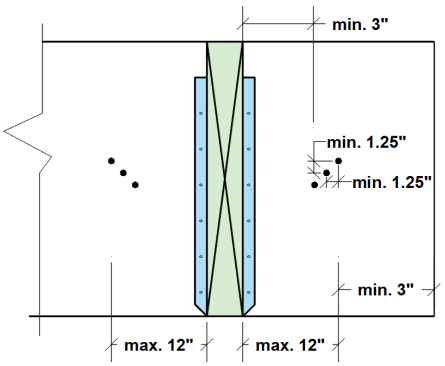


FIGURE 9: 8 NAILS

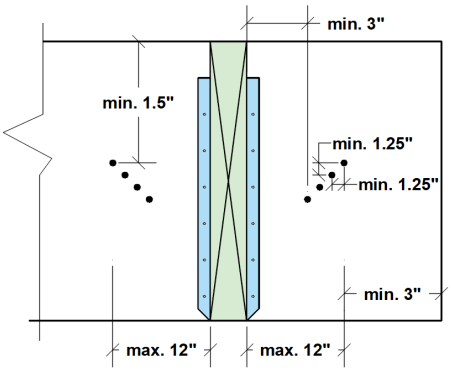


FIGURE 10: 12 NAILS

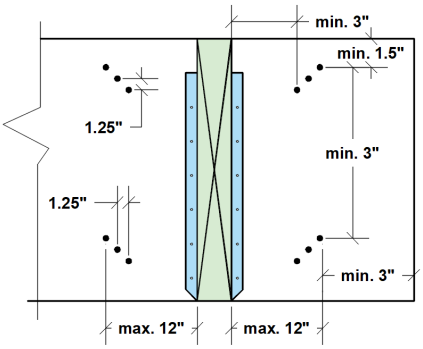


FIGURE 11: 16 NAILS

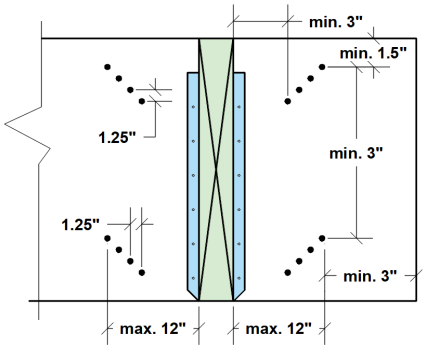


FIGURE 12: 18 NAILS

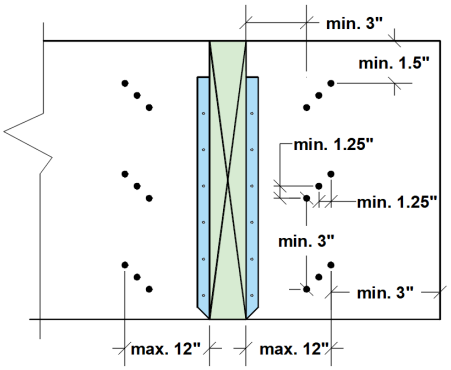


FIGURE 13: 24 NAILS

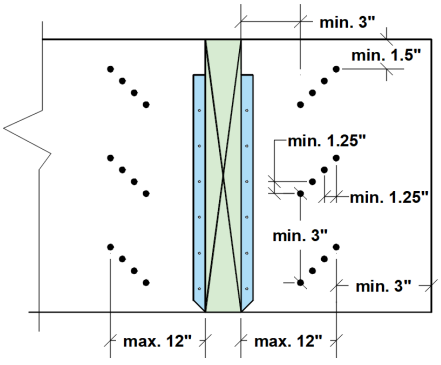
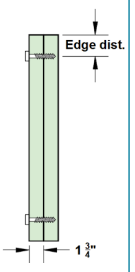
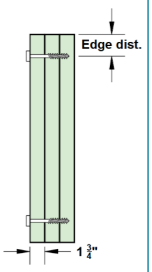
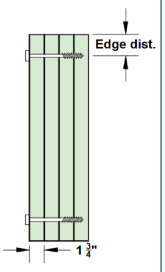
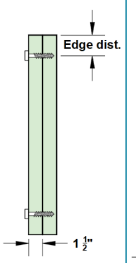
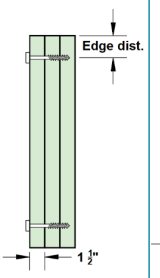
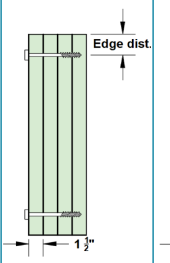
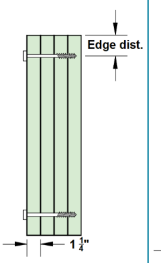
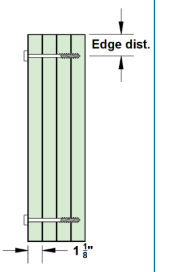


TABLE 19: MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED CONCENTRATED SIDE LOADS - SIMPSON SDW SCREWS

		Assembly A	Assembly B	Assembly F	Assembly A	Assembly B	Assembly F	Assembly F	Assembly F
									
Fastener type		SDW22338	SDW22500	SDW22634	SDW22300	SDW22458	SDW22600	SDW22500	SDW22438
Fastener nominal length (in)		3 3/8	5	6 3/4	3	4 5/8	6	5	4.375
Side Member Thickness		1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"	1 1/8"
Main Member Thickness		1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"	1 1/8"
Min. depth (in.)	Total # of Fasteners	Max. Allowable Uniform Side Loads (PLF)							
7.25	6	3790	3205	2850	3660	3595	3280	2375	2190
9.25	8	5055	4270	3795	4880	4790	4375	3165	2920
9.5	12	7580	6405	5695	7320	7185	6560	4745	4375
11.25	16	10105	8540	7590	9760	9575	8750	6325	5835
14	18	11370	9605	8540	10980	10775	9840	7115	6560

Tabulated values shall not be increased for a load duration KD > 1.0

FIGURE 14: 6 SDW SCREWS

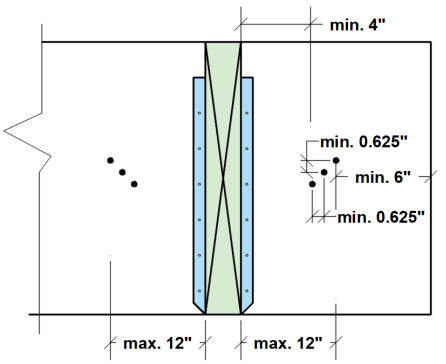


FIGURE 15: 8 SDW SCREWS

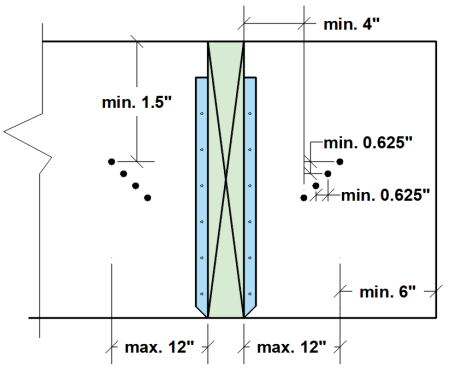


FIGURE 16: 12 SDW SCREWS

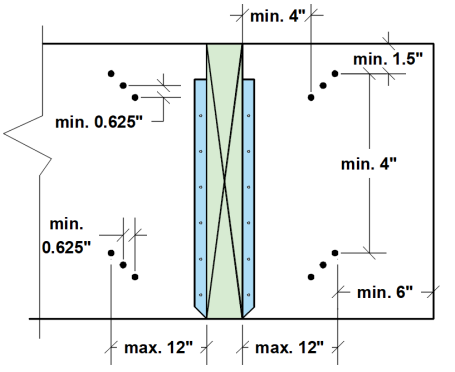


FIGURE 17: 16 SDW SCREWS

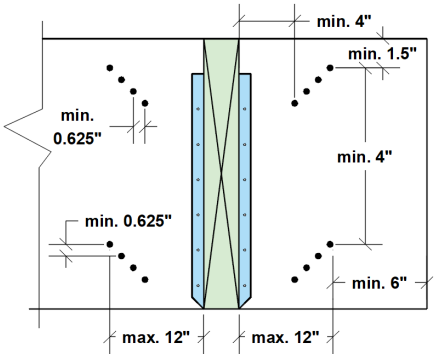


FIGURE 18: 18 SDW SCREWS

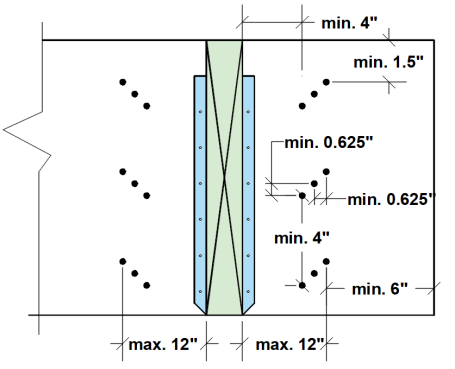
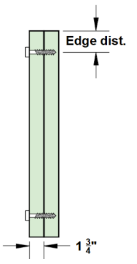
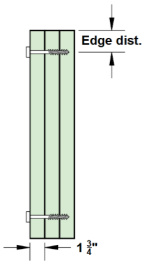
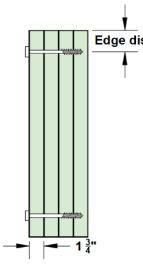
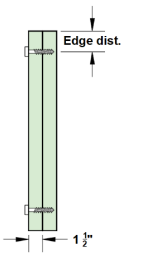
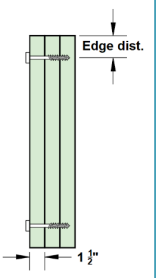
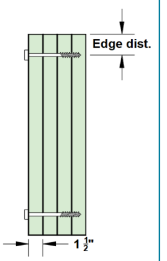
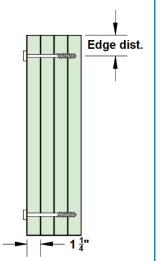


TABLE 20: MULTIPLE MEMBER CONNECTIONS: MAX. FACTORED CONCENTRATED SIDE LOADS - MITEK MIFLK SCREWS

		Assembly A	Assembly B	Assembly F	Assembly A	Assembly B	Assembly F	Assembly F
								
	Fastener type	MIFLK312	MIFLK005	MIFLK634	MIFLK278	MIFLK412	MIFLK22600	MIFLK005
	Fastener nominal length (in)	3 1/2	5	6 3/4	3	4 5/8	6	5
	Side Member Thickness	1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"
	Main Member Thickness	1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/4"
Min. depth (in.)	Total # of Fasteners	Max. Allowable Uniform Side Loads (PLF)						
7.25	6	4620	3600	3180	3540	3010	2675	2060
9.25	8	6160	4800	4240	4720	4010	3565	2745
9.5	12	9240	7200	6360	7080	6015	5345	4115
11.25	16	12320	9600	8480	9440	8020	7130	5490
14	18	13860	10800	9540	10620	9020	8020	6175

Tabulated values shall not be increased for a load duration KD > 1.0

FIGURE 19: 6 MIFLK SCREWS

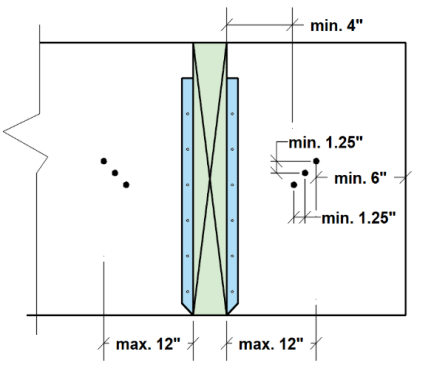


FIGURE 20: 8 MIFLK SCREWS

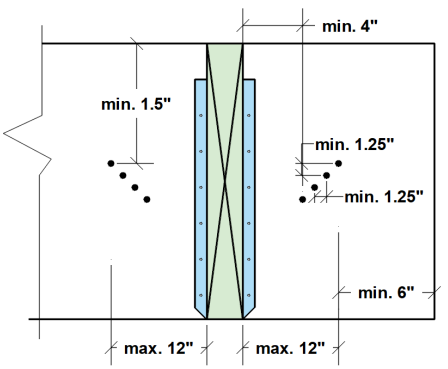


FIGURE 21: 12 MIFLK SCREWS

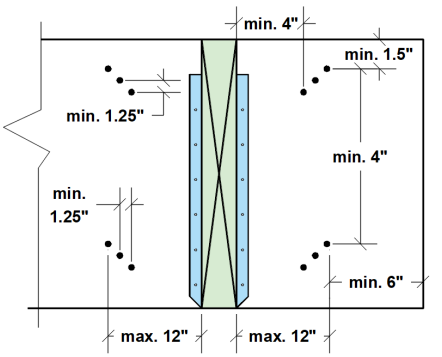


FIGURE 22: 16 MIFLK SCREWS

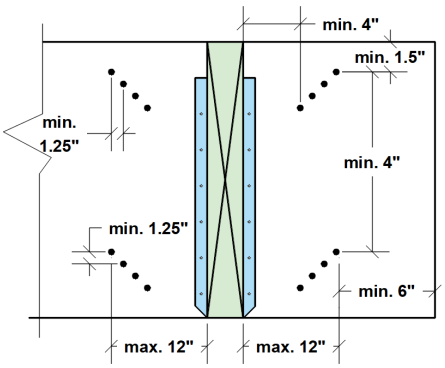


FIGURE 23: 18 MIFLK SCREWS

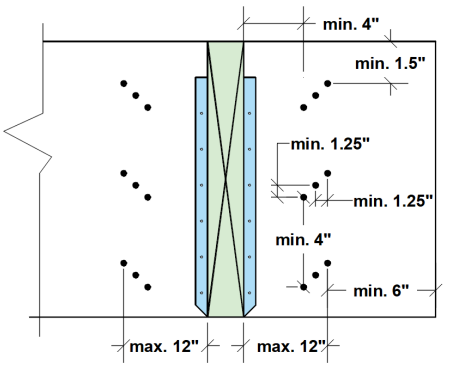
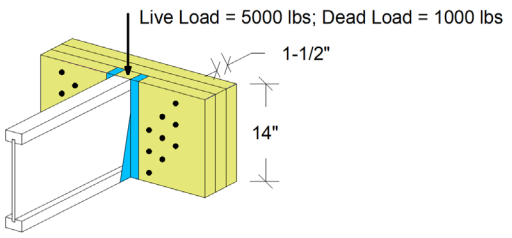


FIGURE 24: CONCENTRATED SIDE LOAD EXAMPLE



Note:

1) Verify that a 3-ply, 1-1/2" x 14" header can support a factored concentrated side load of 1.5*5000+1.25*1000 = 8750 lbs and all other loads applied.
2) The concentrated factored side load of 8750 lbs is transferred to the header with a face mount hanger.
3) For an assembly of three 1-1/2" plies (Assembly B), 18 - MIFLK005 screws are good for 10800 lbs.
4) Verify hanger capacity. Capacity reduction may be required for the selected header thickness. Refer to hanger manufacturer for appropriate reductions.

STORAGE AND HANDLING

INTRODUCTION

Proper storage and handling of engineered wood products (EWP) including T-TEC LSL and Tolko LSL Industrials is required to protect the products during distribution and at the jobsite. APA – The Engineered Wood Association recommends the following storage and handling practices for EWP products. For full details on proper storage and handling, refer to *APA Technical Note: Proper Storage and Handling of I-Joists and LVL, Form E705* available at www.apawood.org.

SAFE HANDLING DURING DISTRIBUTION

1. Bundle wrap can be slippery. Avoid walking on wrapped bundles. Stacks of product may be unstable or slippery, especially when wet. Avoid walking on the material.
2. Follow good forklift safety procedures when handling T-TEC LSL and Tolko LSL Industrials at the yard.
3. Store longest material lowest to the ground.
4. When handling with a crane, pick up the load using a spreader if necessary to minimize handling stresses.
5. Post and follow load limits on storage racks.

STORAGE DURING DISTRIBUTION

1. Keep wrapped to protect from weather.
2. Use stickers to separate bundles.
3. Use stickers every 8 feet and maintain vertical alignment of the stickers.
4. Do not store T-TEC LSL and Tolko LSL Industrials in direct contact with the ground.
5. For optimal moisture protection, keep at least 12 inches up from the ground.
6. To protect from dirt and weather, delay unwrapping the bundles until the time of the installation or cut-up for delivery.
7. Take care to avoid forklift damage. If the ground is unlevel in the storage area, reduce forklift speed to avoid “bouncing” the load.
8. When handling with a crane, pick up the load using a spreader if necessary to minimize handling stresses.
9. Maintain stack height within safe limits.
10. Do not stack other material on top of T-TEC LSL and Tolko LSL Industrials.

PROPER HANDLING AT THE JOBSITE

1. Do not drop the product off the delivery truck. Best practice is to use a forklift or boom.
2. Store on level, well-drained area.
3. Keep on stickers spaced every 8’ and at least every 6” off the ground at the jobsite.
4. Keep material covered to protect from weather.
5. Do not stack other material on top of the product.
6. Never use or try to repair damaged products. If defective material is discovered prior to or during installation, cease installation and contact the supplier.

MOISTURE EFFECTS

T-TEC LSL and Tolko LSL Industrials products are manufactured under carefully controlled conditions that assure they are dry. Moisture content can be affected by humidity, exposure to wetting and drying conditions. While T-TEC LSL and Tolko LSL Industrials products are engineered to withstand normal exposure, excessive exposure to moisture may lead to dimensional change.

If moisture is present, mold, mildew and wood decay fungi may grow on any engineered wood products, thus it is important to properly store T-TEC LSL and Tolko LSL Industrials to control exposure to moisture. Moisture increase is expected under normal construction situations and does not adversely affect the performance of the products if good building practices are followed to minimize exposure and to provide proper conditions for the products to re-equilibrate to dry conditions.

Reference: *APA Technical Note: Proper Storage and Handling of I-Joists and LVL, Form E705* available at www.apawood.org.

CSD SOFTWARE

Calculated Structured Designs Inc. (CSD®) is a software development company providing solutions for the engineered wood, engineering, design, and building industries for all of North America and Australia.

Building with the most recent cutting edge development tools, CSD® offers solutions for our industry leading designers, drafters, engineers, and builders.

Website: csdsoftware.com/csd/software/

DRAW

- Multiple input styles for quick and easy drawing
- Real Time 3D feedback
- Create realistic model the way it will be built
- Draw the way you want. iStruct® will follow
- Robust graphics tools allow custom detailing in the model

DESIGN

- Analyze anytime for quick results and guidance
- Precision load development for accurate designs
- Solution Seeker finds the optimum product solution
- Easily create required engineering reports
- Automatic load distribution analyzes all components at once

BUILD

- Create Flexible and detailed plot layouts
- Add any type of data to your plot
- Integrate customer details and information
- Create dynamic quotes with exports to point of sale systems
- Send materials to automated saw files or create manual cut lists

ACCESS THE CSD SOFTWARE

Tolko offers authorized customers access to engineered wood design software by CSD. This software includes:

isPlan®

A 3D layout and design solution that allows users to model an entire structure with 2D and 3D views. isPlan® develops and transfers gravity loads through the structure and designs the structural members.

isDesign®

A single member sizing solution that allows users to size floor and roof joists, beams and posts by inputting span and load information. Innovative tools allow selection of the most cost effective solution.

isWall®

The first stand alone wall design application that allows users to model a tall wall and run gravity and wind analysis for all the components of the wall.

To become a Tolko authorized user, please contact your Tolko EWP sales representative at:

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