



LVL by Stora Enso

Technical brochure



Stora Enso

The renewable materials company

Stora Enso is a leading provider of renewable solutions in packaging, biomaterials, wooden constructions and paper on global markets.

Our aim is to replace fossil based materials by innovating and developing new products and services based on wood and other renewable materials.

Stora Enso is Europe's largest sawnwood producer and one of the world's top private forest owners, employing over 15,000 people and operating 15 sawmills across Europe. In 2024, our sales totalled EUR 9.05 billion (USD 9.78 billion). For more details, visit storaenso.com.

Population growth, urbanisation, climate change and eco-awareness are strong trends driving the business for wood-based solutions. Cities are growing and consequently there is greater need for residential housing as well as office and commercial buildings, resulting in an increased demand for lighter, easy-to-assemble and renewable construction materials.

We believe in a sustainable and energy-efficient construction method for the public and private sectors. Wood, our most important raw material, has many advantages over the materials made from non-renewable resources. Wood is renewable, recyclable and it can be used as a bioenergy at the end of its life cycle. With carbon captured in the wood, the products offer a truly sustainable means of combating climate change.

Stora Enso products are manufactured from responsibly sourced wood. The wood supply chains to Stora Enso's Wood Products units are covered by a wood traceability system, which is third-party certified according to PEFC™ or FSC® Chain of Custody system, or according to both systems.



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1. LVL by Stora Enso

Laminated Veneer Lumber



Code Evaluations: See DrJ Technical Evaluation Report TER No. 1507-01 (ASD) and TER No. 2210-02 (LSD).
Florida Product # 29268 (FL29268)

Key data

Basic information	Laminated Veneer Lumber (LVL) is an advanced wood product suitable for a wide range of structural applications, from new build to repair. Being one of the strongest wood-based construction materials relative to its weight, LVL provides an ideal solution when strength, dimensional stability and high load-bearing capacity are essential – not forgetting the homogeneous quality and good workability.
Use	Structural applications; beams, floor joists, headers, post-and-beam frames, roof joists and studs.
Standard widths	3½", 5 ½", 7¼", 9¼", 9½", 11¼", 11⅞", 14", 16", 18", 20", 22" and 24"
Standard thicknesses	1⅝", 1½" and 1¾"
Maximum length	64'
Wood species	Spruce (Picea abies)
Adhesives	LVL is consisting of multiple layers of veneers that are bonded together with brown phenolic resin. Top face veneer scarf joints are bonded with clear melamine-formaldehyde resin. LVL meets the heat durability performance requirements per ASTM D7247.
Moisture content	8 - 10% at time of manufacture
Surface quality	Intended for non-visual end usages. Standard LVL is delivered unsanded with a clear glue line on the top face.
Weight	Mean density 31.8 lb/ft³
Thermal conductivity λ	0.9 BTU in/hr-ft²-°F

Product weights

Thickness	Width	Material Weight (plf)
1-½"	3-½"	1.17
	5-½"	1.83
	7-¼"	2.42
	9-¼"	3.08
	9-½"	3.17
	11-¼"	3.75
	11-⅞"	3.96
	14"	4.67
	16"	5.33
	18"	6
	20"	6.67
	22"	7.33
	24"	8
1-¾"	3-½"	1.36
	5-½"	2.14
	7-¼"	2.82
	9-¼"	3.6
	9-½"	3.69
	11-¼"	4.38
	11-⅞"	4.62
	14"	5.44
	16"	6.22
	18"	7
	20"	7.78
	22"	8.56
	24"	9.33
5-½"	7-¼" Ins Hdr	4.32
	9-¼" Ins Hdr	5.51
	11-¼" Ins Hdr	6.71
	14" Ins Hdr	8.35

Applications

LVL can be used in various challenging construction and industrial end usages where strength, workability, stability and weight is a concern – opening up new possibilities for wood-based applications.

Typical applications range from posts and beams to joists and roof trusses, wood-frame construction and prefabricated building elements. Modern solutions can be found in vehicle and wind power installations as well as in a number of industrial applications.



Beam or Header



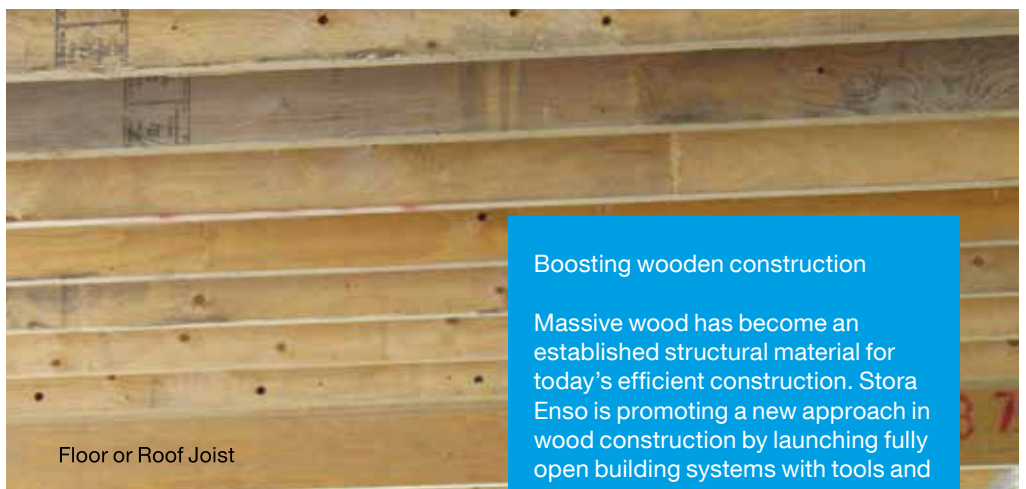
Truss Component



Factory Built Structures



Insulated Header



Floor or Roof Joist

Boosting wooden construction

Massive wood has become an established structural material for today's efficient construction. Stora Enso is promoting a new approach in wood construction by launching fully open building systems with tools and manuals for different building types. Building Systems by Stora Enso are based on building components like CLT and LVL.

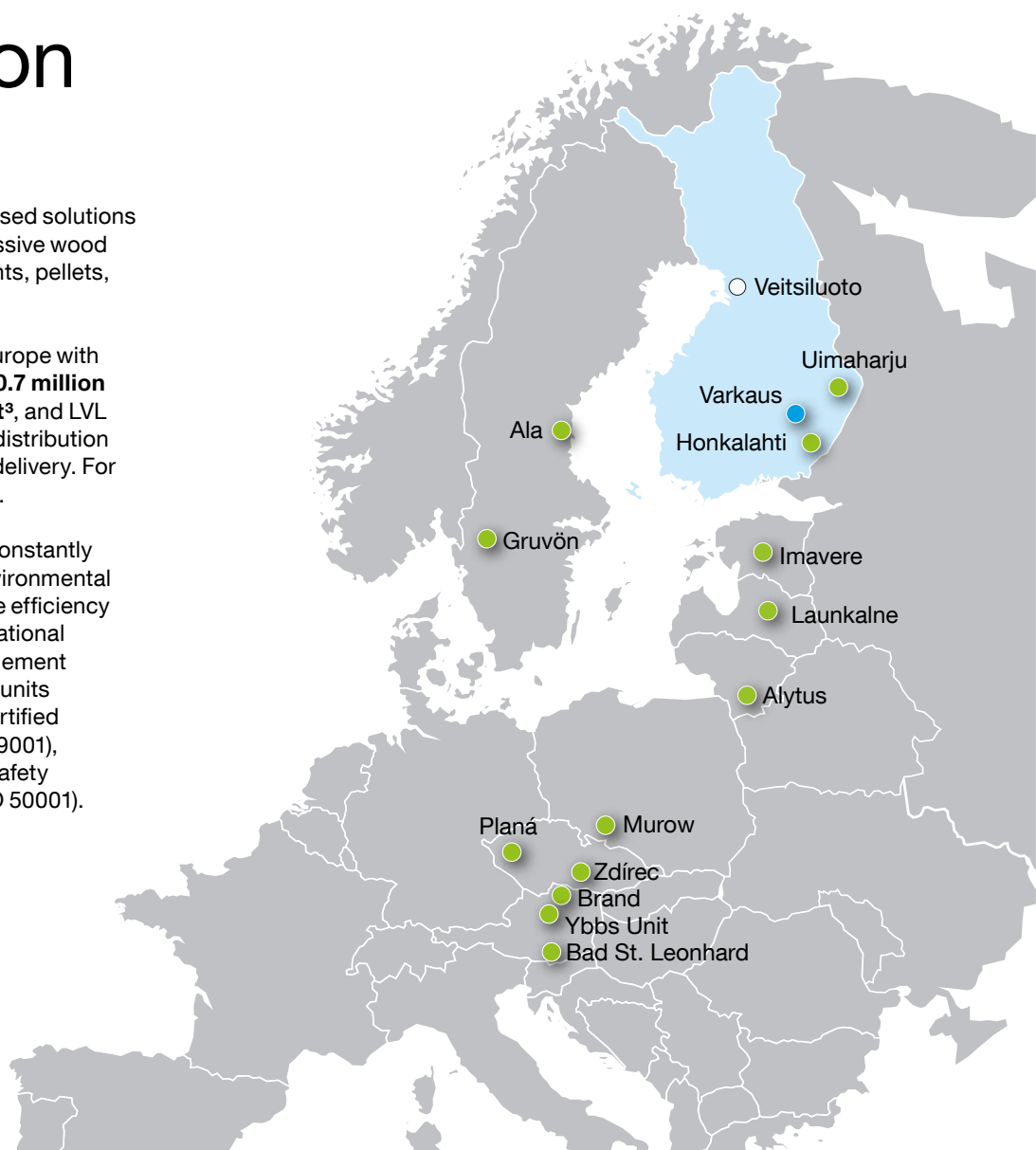
2. Production

Stora Enso provides versatile wood-based solutions for building and housing, including massive wood elements, building systems, components, pellets, and sawn timber.

In 2024, we operated 15 mills across Europe with a sawing capacity of approximately **190.7 million ft³**, further processing of **77.7 million ft³**, and LVL production of **3 million ft³**. Our global distribution network ensures reliable and efficient delivery. For the latest updates, visit storaenso.com.

In the manufacturing process, we set constantly higher targets to minimize negative environmental and social impacts and to maximize the efficiency of all raw material use. To achieve operational excellence, we apply integrated management systems. Stora Enso's Wood Products units have a good coverage of third-party certified management systems for Quality (ISO 9001), Environment (ISO 14001), Health and Safety (ISO 45001), and Energy Efficiency (ISO 50001).

Stora Enso has operations on all continents, and our focus is on utilizing expertise in renewable materials and creating value in wood, pulp, paper, and packaging. The map shows where our different units are located in the world. You can also access more detailed information about each unit through our [website](#) or by scanning the QR code.





Varkaus unit

Varkaus mill, situated in the Eastern Finland surrounded by rich forest areas, consists of a containerboard mill, pulp mill, sawmill and an LVL mill. Thanks to its own wood purchasing operations Stora Enso has full control over the whole value chain from raw material to the tailor-made products.

Varkaus had a sawing capacity of 9.18 million ft³ (sawn timber), 4.24 million ft³ (processed timber), and 3.00 million ft³ (LVL) in 2024. For more up-to-date information, please visit the [mill website](#).



The integrated mill is self-sufficient in energy. Combined heat and power plants use 95% bio- and recycled fuels maximizing the energy efficiency and minimizing fossil CO₂ emissions.

Most modern production technology

The essential benefits of LVL are derived from the choice of raw material used and the manner of production: logs are rotary peeled into 1/8" thick veneers and bonded together under heat and pressure.

Every sheet of veneer is individually measured in terms of density, moisture content and modulus of elasticity to optimize the product performance. Sheets are then re-glued into a continuous billet to create S grade products on the most advanced production line built to date in Europe.

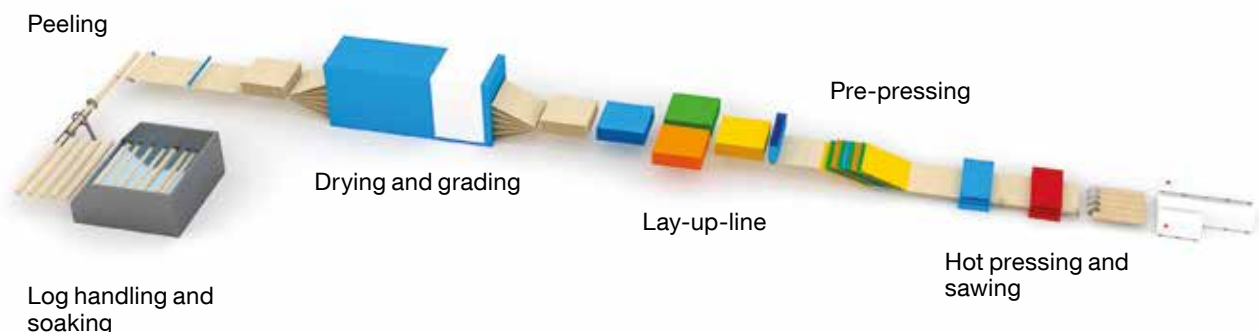


Illustration of the LVL line

3. Further Processing

Moisture protection

LVL products are treated with Otatek Biowax 4065, a waterborne emulsion of vegetable-based wax that forms a hydrophobic layer on treated surfaces.

Moisture protection is accurately applied to all four sides and ends in order to achieve greater protection.

Moisture protection is intended only for temporary protection during the storage and construction time at site. Surfaces exposed to continuous weather strain are recommended to be retreated once a year.



4. Material Properties

Fire resistance

The temperature at which LVL ignites when it is exposed to a flame is about 518°F. A temperature of over 752°F is needed to cause spontaneous combustion.

- Nominal charring rate of LVL is $\beta_n = 0.027$ in/min
- Example: $t = 60$ min, $n = \beta_n \cdot t = 0.027 \times 60 = 1.62$ in



Moisture behavior

LVL is delivered with a moisture content of 8 - 10%. Wood is a hygroscopic material and its moisture content varies according to the temperature and the relative humidity of ambient air.

The moisture content (MC) is defined by the following formula

- $MC = \frac{M_{wet} - M_{dry}}{M_{dry}} (100\%)$
- where M_{wet} is the initial mass of the test piece and M_{dry} is the mass of the overdry test piece after drying

Under sustained conditions of $T = 68^\circ\text{F}$ and $RH = 65\%$ the equilibrium moisture content of LVL is around 10%.

Thermal properties

The thermal conductivity of LVL depends on its moisture content. With a RH of 47% the moisture content of LVL is 9.3% and the thermal conductivity coefficient, $\lambda = 0.76$ BTU in/hr-ft²-°F. Within a RH of 93% the moisture content of LVL is 25% and the thermal conductivity coefficient, $\lambda = 0.90$ BTU in/hr-ft²-°F.

LVL dimensions are very stable under heat and the thermal deformation can generally be disregarded.



5. Design Software

The design guidelines and tables in this brochure are provided to assist in the selection of LVL by Stora Enso for use in common structural applications.

The design properties provided in the table on page 10 have been established using the procedures provided in ASTM D5456.

System Requirements:

- Windows 8 or higher
- Intel multi core i series processor, i5 or better or AMD equivalent.
- 4GB ram or better
- Hard disk free space of 1 GB or more
- High speed internet access for registration and updates
- Monitor with a resolution of 1680 x 1050 or higher

Design software

iStruct™ EWP Design Software

Stora Enso provides isDesign™ single member sizing software to qualified users for designing and specifying Stora Enso ewp products. isDesign is part of the iStruct suite of ewp software and provides users with the ability to easily design joists, beams, headers and columns. The intuitive graphical interface and respected design rigor mean you can get quick results with confidence.

Unique features like load linking and multi ply fastener design mean thorough results, fewer mistakes and time savings. isDesign also integrates with other iStruct applications like isPlan™ whole house software and isOptimize™ production software. Whether your designing one beam or a whole house the iStruct suite has the right application to get the job done.

MiTek

This industry demands faster, affordable and higher quality construction. That's why we never stop creating—and improving—powerful applications designed to grow your business success.

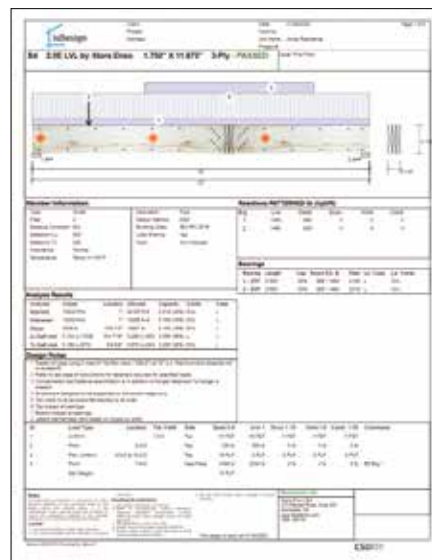
MiTek® software optimizes the business workflow, design, and production of homes. Our MiTek® 3D Structural Modeling Software expands the capability of every 2D or 3D architectural software platform - creating an optimized, buildable, structural frame in a virtual world. Before it's built on the jobsite, build it first in MiTek® Software.

From enterprise software for builders with option on option in an ERP system using a single database, to component manufacturing software for management, design and productivity, to MiTek Supply software for Lumber yard and materials dealers, MiTek® software offers a complete set of solutions to meet your needs.

Alpine

Alpine's IntelliVIEW software suite is a fully integrated software solution for the layout and design of a building's rough framing elements including roof and floor trusses, wall panels, solid sawn, EWP, construction hardware, sheathing and various ancillaries.

IntelliVIEW provides the industry's most complete analysis of the design, cost information and bill of materials. The software promotes increased profits by reducing plate and lumber use.



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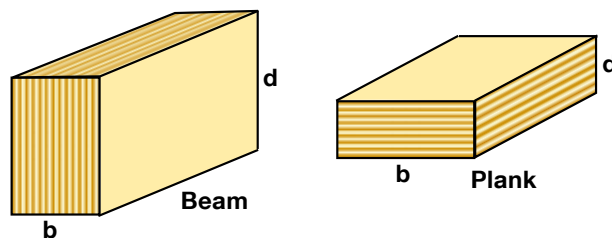
6. Structural Solutions

Reference Design Values (Allowable Stress Design)

Bending, F _b (psi)		Tension, F _t (psi)	Compression, F _c (psi)			Horizontal Shear, F _v (psi)		Beam Modulus of Elasticity, E (psi)	Plank Modulus of Elasticity, E (psi)	Modulus of Elasticity for Beam & Column Stability, E _{min} (psi)
Beam ^{5,6}	Plank	Parallel- to-Grain ⁷	Parallel to- Grain	Perpendicular to-Grain		Beam	Plank	True ⁴	True ⁴	
				Beam	Plank					
3,000	3,300	2,300	2,750	900	550	350	100	2.0 x 10 ⁶	2.0 x 10 ⁶	1.1 x 10 ⁶

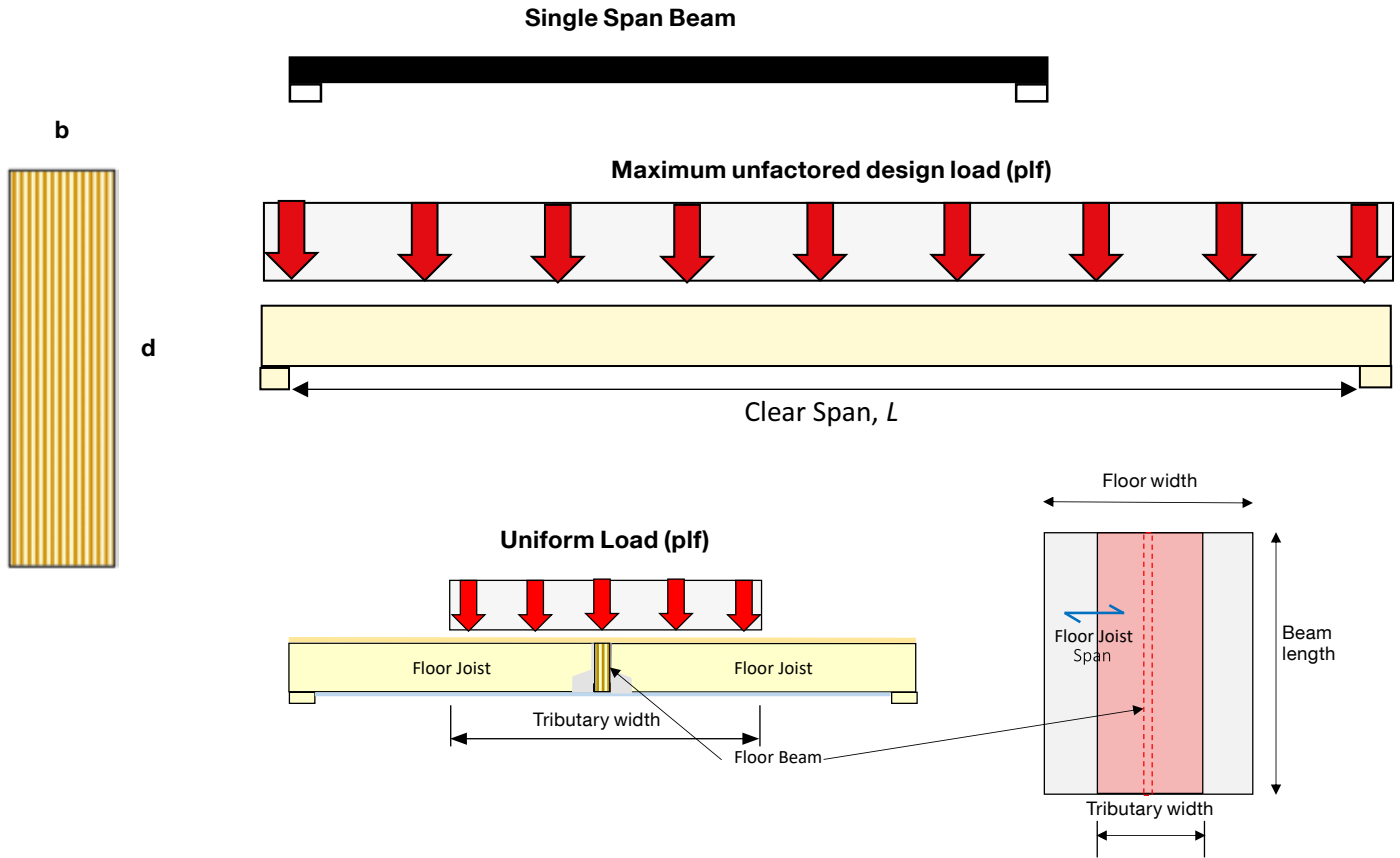
- 1 psi = 0.00689 MPa or 1 MPa = 145 psi.
- The reference design values in this table are applicable for the product used in dry, well-ventilated interior applications, in which the equivalent moisture content of sawn lumber is less than 16%.
- The reference design values in this table are for normal load duration. Loads of longer or shorter duration shall be adjusted in accordance with the applicable code. Duration of load adjustments shall not be applied to F_{cL} and E .

- Reference E Values for beam and plank are the true modulus of elasticity (i.e., shear-free).
Using True E , deflection is calculated as follows for uniformly loaded simple span beams.
 $\Delta = [5WL^4/(32Ed^3)] + [12WL^2/(5Edb)]$
where: Δ = deflection in inches
 W = uniform load in lbs./in.
 L = span in inches
 E = modulus of elasticity in psi
 b = width of beam in inches
 d = depth of beam in inches



- The design value for bending members used in a beam orientation is based on a referenced depth of 12" (305 mm).
 - For depths greater than or equal to $3^{15}/16"$, the bending values shall be adjusted by a size factor adjustment of $(12/d)^{0.117}$, where d is measured in inches with a minimum depth of $3^{15}/16"$ (100 mm).
 - For depths greater than or equal to $3\frac{1}{2}"$ and less than $3^{15}/16"$, the bending values shall be adjusted by a size factor adjustment of 1.139.
- When structural members qualify as repetitive members in accordance with the applicable code, a 4% increase is permitted.
- Design value multiplied by $(4.43/L)^{0.129}$ for length effect factors, with L measured in feet. Value limited to members 18" deep and less.

Single Span Load Tables



Notes:

1. All uniform loads given in the tables are in pounds per lineal foot (plf).
2. The top line (LL) of each table indicates the allowable load-carrying capacity using the live load deflection limit.
3. The middle line (TL) of each table indicates the allowable load carrying capacity (in addition to the self-weight of the beam) using the total load deflection limit of the member.
4. The bottom line (Brg) of each table indicates the required bearing length at each end of the beam in inches when loaded to the maximum loads allowed and assumes that the compression strength of the bearing material is greater than or equal to the compression perpendicular to grain design value of the S-LVL™ beam. Shorter bearing lengths may be possible with lighter loads, and longer bearing lengths may be required where the compression strength of the bearing material is less than the compression perpendicular to grain design value of the S-LVL™ beam. Calculations are based on a design span measured from centerline of required bearing to centerline of required bearing. If different bearing lengths are required, design span should be evaluated accordingly.
5. For live load deflection factors of LL/180 and LL/480, multiply the maximum live load value (LL/240) by 1.333 and (LL/360) by 0.667. The result shall not exceed the maximum allowable total load (TL).
6. These tables are for gravity loads only. Consult a registered design professional for wind and seismic load analysis and design.
7. All tables are based on uniform load conditions. Any concentrated load applications must be analyzed separately or converted to an equivalent uniform load.
8. The compression edge of the header or beam must be laterally supported at intervals of 24" or less. In addition, lateral support must be provided at bearing points.
9. 1.5"x14", 1.5"x16", 1.5"x18", 1.5"x20", 1.5"x22", 1.5"x24", 1.75"x16", 1.75"x18", 1.75"x20", 1.75"x22" and 1.75"x24" beams are to be used as minimum two ply members only unless both the top and bottom edge of the member are braced for the entire length of the beam and the ends at points of bearing are held in position to prevent rotation and/or lateral displacement.

1.5" 1 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 1 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	65	254	577	1133	1189	1586	1745	2274	2815	3364	3885	4594	4621
	TL	97	380	735	1133	1189	1586	1745	2274	2815	3364	3885	4594	4621
	Brg	1.5	1.5	1.75	2.75	2.75	4	4.25	6	7.5	9.25	11.5	12	12
8	LL	28	109	249	511	549	892	1028	1368	1716	2091	2466	2869	3271
	TL	41	162	372	658	689	933	1028	1368	1716	2091	2466	2869	3271
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
10	LL	--	56	129	268	288	473	553	885	1145	1401	1676	1967	2264
	TL	--	83	191	397	430	593	657	904	1145	1401	1676	1967	2264
	Brg	--	1.5	1.5	1.5	1.75	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
12	LL	--	32	75	156	169	278	325	525	772	1000	1204	1417	1642
	TL	--	47	110	231	251	414	471	637	811	1000	1204	1417	1642
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	7	8.25
14	LL	--	20	47	98	107	177	208	336	495	696	900	1065	1241
	TL	--	29	69	145	157	263	308	471	603	746	900	1065	1241
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
16	LL	--	--	31	66	71	119	140	228	337	474	643	828	966
	TL	--	--	45	96	105	176	207	330	452	574	695	828	966
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5.25	6.25
18	LL	--	--	22	46	50	84	98	161	238	336	458	601	772
	TL	--	--	31	67	73	122	145	238	353	457	547	659	772
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	3.75	4.75	5.5
20	LL	--	--	--	34	37	61	72	118	175	247	336	444	571
	TL	--	--	--	48	52	88	105	173	259	361	451	537	630
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	--	--	25	27	46	54	89	132	187	254	337	434
	TL	--	--	--	35	39	66	78	129	194	268	374	446	523
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	3.75	4.5
24	LL	--	--	--	--	21	35	41	68	102	145	197	261	337
	TL	--	--	--	--	29	50	59	99	149	212	291	375	436
	Brg	--	--	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
26	LL	--	--	--	--	--	28	33	54	80	114	156	207	266
	TL	--	--	--	--	--	38	46	77	116	167	226	302	376
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75
28	LL	--	--	--	--	--	22	26	43	64	92	125	166	214
	TL	--	--	--	--	--	30	36	61	92	133	183	243	315
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	--	--	--	--	21	35	52	75	102	136	175
	TL	--	--	--	--	--	--	28	48	74	107	148	194	256
	Brg	--	--	--	--	--	--	1.5	1.5	1.5	1.5	1.75	2.25	3

1.5" 1 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 1 Ply LL/240 TL/180 C _D =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	98	382	840	1293	1353	1801	1968	2566	3158	3753	4415	4622	4621
	TL	130	506	840	1293	1353	1801	1968	2566	3158	3753	4415	4622	4621
	Brg	1.5	1.5	2	3	3.25	4.5	5	6.75	8.5	10.5	12	12	12
8	LL	42	163	374	739	788	1063	1171	1558	1946	2360	2770	3209	3593
	TL	55	216	483	739	788	1063	1171	1558	1946	2360	2770	3209	3593
	Brg	1.5	1.5	1.5	2.25	2.5	3.5	3.75	5	6.5	8	10	11.75	12
10	LL	21	84	193	399	430	697	769	1032	1301	1593	1898	2219	2546
	TL	28	111	256	463	513	697	769	1032	1301	1593	1898	2219	2546
	Brg	1.5	1.5	1.5	1.75	2	2.75	3	4	5.25	6.5	8	9.5	11.25
12	LL	--	49	112	234	253	415	485	728	924	1139	1367	1609	1859
	TL	--	64	148	309	331	490	541	728	924	1139	1367	1609	1859
	Brg	--	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.5	6.75	8	9.5
14	LL	--	31	71	148	160	264	309	500	690	852	1027	1216	1412
	TL	--	39	93	194	211	349	399	541	690	852	1027	1216	1412
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	6.75	8
16	LL	--	20	47	99	107	179	209	340	501	656	798	945	1103
	TL	--	26	61	130	141	235	276	412	533	656	798	945	1103
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
18	LL	--	--	33	70	75	126	148	240	355	501	635	756	883
	TL	--	--	42	90	98	165	194	316	422	524	635	756	883
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25	6.25
20	LL	--	--	24	51	55	92	108	177	261	369	502	616	721
	TL	--	--	30	65	71	119	141	230	343	427	518	616	721
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75	5.75
22	LL	--	--	--	38	41	69	81	133	197	279	380	503	599
	TL	--	--	--	48	52	89	105	174	259	353	429	507	599
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25	5.25
24	LL	--	--	--	29	32	53	62	103	153	216	295	390	502
	TL	--	--	--	37	40	68	80	133	191	283	355	431	506
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75
26	LL	--	--	--	23	25	42	49	81	121	171	233	308	398
	TL	--	--	--	28	31	52	62	104	150	223	302	368	428
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25
28	LL	--	--	--	--	20	33	39	65	97	137	187	248	320
	TL	--	--	--	--	24	41	49	82	124	178	244	317	373
	Brg	--	--	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
30	LL	--	--	--	--	--	27	32	52	79	112	153	203	261
	TL	--	--	--	--	--	33	39	66	100	144	195	261	325
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75

1.5" 1 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 1 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	98	382	849	1390	1461	1932	2112	2754	3369	4007	4622	4622	4621
	TL	130	507	908	1390	1461	1932	2112	2754	3369	4007	4622	4622	4621
	Brg	1.5	1.5	2.25	3.5	3.5	5	5.5	7.25	9.25	11.25	12	12	12
8	LL	42	163	374	755	811	1150	1267	1677	2095	2529	2970	3472	3593
	TL	55	216	496	815	853	1150	1267	1677	2095	2529	2970	3472	3593
	Brg	1.5	1.5	1.5	2.5	2.75	3.75	4	5.5	7	8.75	10.75	12	12
10	LL	21	84	193	397	427	697	815	1113	1404	1719	2040	2385	2736
	TL	28	111	256	527	555	755	833	1113	1404	1719	2040	2385	2736
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
12	LL	--	49	112	234	253	412	483	775	1002	1230	1476	1732	2002
	TL	--	64	148	309	331	531	586	789	1002	1230	1476	1732	2002
	Brg	--	1.5	1.5	1.5	1.5	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
14	LL	--	31	71	148	160	264	309	498	734	924	1111	1311	1523
	TL	--	39	93	194	211	349	409	586	748	924	1111	1311	1523
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3.25	4	5	6.25	7.5	8.75
16	LL	--	20	47	99	107	179	209	338	499	701	863	1023	1191
	TL	--	26	61	130	141	235	276	447	575	715	863	1023	1191
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.5	6.5	7.75
18	LL	--	--	33	70	75	126	148	240	354	499	678	818	956
	TL	--	--	42	90	98	165	194	316	458	569	690	818	956
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.75	6.75
20	LL	--	--	24	51	55	92	108	177	261	368	500	658	781
	TL	--	--	30	65	71	119	141	230	343	460	558	668	781
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25
22	LL	--	--	--	38	41	69	81	133	197	278	379	500	644
	TL	--	--	--	48	52	89	105	174	259	366	466	555	651
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.5
24	LL	--	--	--	29	32	53	62	103	153	216	294	389	501
	TL	--	--	--	37	40	68	80	133	191	283	383	464	546
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	--	--	23	25	42	49	81	121	171	233	307	396
	TL	--	--	--	28	31	52	62	104	150	223	302	400	469
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	4.75
28	LL	--	--	--	--	20	33	39	65	97	137	187	248	319
	TL	--	--	--	--	24	41	49	82	124	178	244	324	405
	Brg	--	--	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	--	--	--	27	32	52	79	112	153	203	261
	TL	--	--	--	--	--	33	39	66	100	144	195	261	341
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.5" 2 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 2 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	131	509	1155	2267	2378	3172	3490	4548	5630	6729	7770	9188	9243
	TL	194	761	1471	2267	2378	3172	3490	4548	5630	6729	7770	9188	9243
	Brg	1.5	1.5	1.75	2.75	2.75	4	4.25	6	7.5	9.25	11.5	12	12
8	LL	56	218	499	1022	1099	1784	2057	2736	3433	4183	4933	5738	6543
	TL	82	324	745	1317	1378	1867	2057	2736	3433	4183	4933	5738	6543
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
10	LL	29	112	258	536	577	947	1107	1771	2290	2803	3352	3934	4529
	TL	41	166	383	794	861	1186	1315	1809	2290	2803	3352	3934	4529
	Brg	1.5	1.5	1.5	1.5	1.75	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
12	LL	--	65	150	312	338	556	650	1050	1544	2000	2408	2834	3285
	TL	--	95	221	463	502	828	943	1274	1623	2000	2408	2834	3285
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	7	8.25
14	LL	--	41	95	197	214	355	416	673	991	1393	1801	2131	2483
	TL	--	59	138	291	315	526	617	942	1206	1493	1801	2131	2483
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
16	LL	--	27	63	132	143	238	281	456	674	949	1287	1656	1932
	TL	--	38	91	193	210	352	414	660	905	1149	1391	1656	1932
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5.25	6.25
18	LL	--	--	45	93	101	168	197	323	477	672	916	1203	1545
	TL	--	--	63	135	146	245	290	476	707	915	1094	1319	1545
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	3.75	4.75	5.5
20	LL	--	--	32	68	74	122	144	236	351	495	673	888	1143
	TL	--	--	45	97	105	177	210	347	518	723	903	1075	1260
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	--	24	51	55	92	108	178	265	375	509	674	868
	TL	--	--	32	71	78	132	156	259	388	537	748	893	1047
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	3.75	4.5
24	LL	--	--	--	39	42	71	83	137	205	290	395	522	675
	TL	--	--	--	54	59	100	119	198	298	425	582	751	873
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
26	LL	--	--	--	31	33	56	66	108	161	229	313	414	533
	TL	--	--	--	41	45	77	92	154	233	334	452	604	753
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75
28	LL	--	--	--	25	27	45	52	86	129	184	251	333	429
	TL	--	--	--	32	35	61	72	122	185	266	366	487	630
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	--	20	22	36	43	70	105	150	205	272	351
	TL	--	--	--	25	27	48	57	97	148	214	296	389	513
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3

1.5" 2 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 2 Ply LL/240 TL/180 C _D =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	196	764	1681	2586	2707	3602	3936	5132	6316	7507	8831	9244	9243
	TL	260	1012	1681	2586	2707	3602	3936	5132	6316	7507	8831	9244	9243
	Brg	1.5	1.5	2	3	3.25	4.5	5	6.75	8.5	10.5	12	12	12
8	LL	84	327	749	1478	1577	2126	2343	3116	3892	4720	5541	6418	7186
	TL	110	433	967	1478	1577	2126	2343	3116	3892	4720	5541	6418	7186
	Brg	1.5	1.5	1.5	2.25	2.5	3.5	3.75	5	6.5	8	10	11.75	12
10	LL	43	169	387	799	861	1395	1538	2065	2603	3187	3796	4439	5092
	TL	56	222	512	926	1026	1395	1538	2065	2603	3187	3796	4439	5092
	Brg	1.5	1.5	1.5	1.75	2	2.75	3	4	5.25	6.5	8	9.5	11.25
12	LL	25	98	225	468	507	830	971	1457	1849	2279	2734	3219	3719
	TL	31	128	296	619	662	980	1082	1457	1849	2279	2734	3219	3719
	Brg	1.5	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.5	6.75	8	9.5
14	LL	--	62	142	296	321	528	618	1000	1380	1704	2055	2432	2825
	TL	--	79	186	389	422	698	799	1082	1380	1704	2055	2432	2825
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	6.75	8
16	LL	--	41	95	199	215	358	419	680	1003	1312	1596	1891	2207
	TL	--	52	123	260	282	471	553	824	1066	1312	1596	1891	2207
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
18	LL	--	29	67	140	151	252	296	481	711	1002	1271	1512	1766
	TL	--	36	85	181	197	330	389	633	845	1049	1271	1512	1766
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25	6.25
20	LL	--	21	49	102	111	184	216	354	522	739	1004	1233	1442
	TL	--	25	61	131	142	239	282	461	686	854	1036	1233	1442
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75	5.75
22	LL	--	--	37	77	83	138	163	267	395	558	760	1006	1199
	TL	--	--	45	97	105	178	210	348	518	707	858	1014	1199
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25	5.25
24	LL	--	--	28	59	64	107	125	206	307	432	590	780	1005
	TL	--	--	34	74	80	136	161	267	382	566	711	863	1012
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75
26	LL	--	--	22	46	50	84	99	162	242	342	466	616	797
	TL	--	--	25	57	62	105	125	208	300	446	605	736	857
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25
28	LL	--	--	--	37	40	67	79	130	194	275	375	496	641
	TL	--	--	--	44	48	83	99	165	249	357	489	635	747
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
30	LL	--	--	--	30	33	54	64	105	158	224	306	406	523
	TL	--	--	--	35	38	66	79	133	201	289	391	522	651
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75

1.5" 2 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 2 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	196	764	1698	2780	2923	3865	4224	5508	6739	8014	9245	9244	9243
	TL	260	1015	1816	2780	2923	3865	4224	5508	6739	8014	9245	9244	9243
	Brg	1.5	1.5	2.25	3.5	3.5	5	5.5	7.25	9.25	11.25	12	12	12
8	LL	84	327	749	1510	1623	2300	2534	3355	4190	5058	5940	6945	7186
	TL	110	433	992	1631	1706	2300	2534	3355	4190	5058	5940	6945	7186
	Brg	1.5	1.5	1.5	2.5	2.75	3.75	4	5.5	7	8.75	10.75	12	12
10	LL	43	169	387	795	855	1395	1631	2227	2808	3438	4080	4771	5473
	TL	56	222	512	1054	1111	1510	1666	2227	2808	3438	4080	4771	5473
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
12	LL	25	98	225	468	507	825	966	1551	2004	2461	2953	3465	4004
	TL	31	128	296	619	662	1063	1173	1579	2004	2461	2953	3465	4004
	Brg	1.5	1.5	1.5	1.5	1.5	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
14	LL	--	62	142	296	321	528	618	996	1468	1848	2222	2622	3046
	TL	--	79	186	389	422	698	818	1173	1496	1848	2222	2622	3046
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3.25	4	5	6.25	7.5	8.75
16	LL	--	41	95	199	215	358	419	677	999	1402	1727	2047	2382
	TL	--	52	123	260	282	471	553	895	1150	1430	1727	2047	2382
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.5	6.5	7.75
18	LL	--	29	67	140	151	252	296	481	708	999	1356	1637	1913
	TL	--	36	85	181	197	330	389	633	917	1138	1380	1637	1913
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.75	6.75
20	LL	--	21	49	102	111	184	216	354	522	736	1001	1316	1562
	TL	--	25	61	131	142	239	282	461	687	921	1116	1336	1562
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25
22	LL	--	--	37	77	83	138	163	267	395	557	758	1000	1288
	TL	--	--	45	97	105	178	210	348	518	732	932	1111	1302
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.5
24	LL	--	--	28	59	64	107	125	206	307	432	589	778	1002
	TL	--	--	34	74	80	136	161	267	382	566	766	929	1092
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	--	22	46	50	84	99	162	242	342	466	615	793
	TL	--	--	25	57	62	105	125	208	300	446	605	800	939
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	4.75
28	LL	--	--	--	37	40	67	79	130	194	275	375	496	638
	TL	--	--	--	44	48	83	99	165	249	357	489	649	810
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	--	30	33	54	64	105	158	224	306	406	522
	TL	--	--	--	35	38	66	79	133	201	289	391	522	683
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.5" 3 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 3 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	196	764	1732	3456	3695	4949	5409	7050	8729	10434	12050	13866	13865
	TL	292	1141	2296	3538	3695	4949	5409	7050	8729	10434	12050	13866	13865
	Brg	1.5	1.5	1.75	2.75	3	4	4.5	6.25	7.75	9.5	11.75	12	12
8	LL	84	327	749	1533	1648	2676	3100	4269	5330	6495	7660	8868	10208
	TL	123	486	1118	1975	2150	2913	3193	4269	5330	6495	7660	8868	10208
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
10	LL	43	169	387	804	866	1412	1651	2641	3559	4356	5210	6091	7012
	TL	62	249	575	1192	1291	1899	2094	2811	3559	4356	5210	6091	7012
	Brg	1.5	1.5	1.5	1.5	1.75	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
12	LL	25	98	225	468	507	834	976	1575	2304	3111	3744	4408	5109
	TL	35	143	332	695	753	1242	1454	1971	2524	3111	3744	4408	5109
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	5	6	7.25	8.5
14	LL	--	62	142	296	321	533	624	1005	1481	2081	2802	3316	3864
	TL	--	88	207	436	473	790	926	1471	1876	2323	2802	3316	3864
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
16	LL	--	41	95	199	215	358	421	685	1007	1418	1923	2521	3007
	TL	--	58	137	290	315	528	622	990	1448	1796	2174	2577	3007
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2	3	3.75	4.5	5.5	6.5
18	LL	--	29	67	140	151	252	296	484	716	1009	1370	1805	2312
	TL	--	39	95	202	219	368	435	715	1060	1425	1731	2059	2405
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	4.75	5.75
20	LL	--	21	49	102	111	184	216	355	527	743	1010	1332	1714
	TL	--	27	67	145	158	266	315	521	777	1085	1379	1672	1963
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	--	37	77	83	138	163	267	398	563	764	1008	1299
	TL	--	--	49	107	117	198	234	389	583	805	1129	1391	1631
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	4	4.75
24	LL	--	--	28	59	64	107	125	206	307	436	593	784	1010
	TL	--	--	36	81	88	150	178	297	448	638	873	1148	1376
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
26	LL	--	--	22	46	50	84	99	162	242	344	470	621	799
	TL	--	--	27	62	67	116	138	231	349	501	678	906	1174
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4
28	LL	--	--	--	37	40	67	79	130	194	276	377	499	644
	TL	--	--	--	48	52	91	108	183	277	399	549	730	945
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	--	30	33	54	64	105	158	225	308	408	527
	TL	--	--	--	37	41	72	86	146	223	322	445	584	770
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3

1.5" 3 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 3 Ply LL/240 TL/180 C _o =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	295	1146	2572	4016	4195	5582	6101	7956	9732	11641	13778	13866	13865
	TL	390	1523	2620	4016	4195	5582	6101	7956	9732	11641	13778	13866	13865
	Brg	1.5	1.5	2	3.25	3.5	4.75	5.25	7	9	10.75	12	12	12
8	LL	126	491	1124	2265	2454	3317	3637	4838	6043	7294	8605	9966	10779
	TL	165	650	1489	2340	2458	3317	3637	4838	6043	7294	8605	9966	10779
	Brg	1.5	1.5	1.5	2.5	2.5	3.5	4	5.25	6.75	8.5	10.25	12	12
10	LL	65	253	581	1192	1291	2106	2360	3209	4046	4953	5900	6873	7884
	TL	84	333	768	1523	1585	2167	2360	3209	4046	4953	5900	6873	7884
	Brg	1.5	1.5	1.5	2	2	2.75	3	4.25	5.5	6.75	8.25	10	11.75
12	LL	38	147	338	702	761	1245	1457	2273	2885	3544	4251	5005	5783
	TL	47	192	445	929	993	1485	1648	2273	2885	3544	4251	5005	5783
	Brg	1.5	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
14	LL	24	93	214	444	481	792	928	1501	2147	2657	3197	3784	4383
	TL	29	119	279	584	634	1047	1227	1688	2147	2657	3197	3784	4383
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	4.75	6	7	8.5
16	LL	--	62	143	298	323	537	629	1016	1499	2057	2484	2944	3435
	TL	--	79	185	390	423	707	829	1299	1659	2057	2484	2944	3435
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
18	LL	--	44	101	210	227	378	445	722	1066	1503	1980	2355	2750
	TL	--	54	128	272	295	495	583	950	1317	1637	1980	2355	2750
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.75	5.5	6.5
20	LL	--	32	74	153	166	276	325	531	783	1105	1502	1921	2251
	TL	--	38	92	197	213	359	423	691	1030	1330	1614	1921	2251
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5	5.75
22	LL	--	24	55	115	125	208	244	401	593	838	1140	1505	1872
	TL	--	27	68	146	158	267	316	522	777	1076	1340	1596	1872
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25
24	LL	--	--	42	89	96	160	188	309	460	649	883	1167	1503
	TL	--	--	51	111	120	204	241	400	573	850	1128	1344	1577
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	--	33	70	76	126	148	243	363	514	700	925	1192
	TL	--	--	38	85	93	158	188	312	451	670	908	1135	1349
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5
28	LL	--	--	27	56	61	101	119	195	291	413	563	744	960
	TL	--	--	29	67	73	125	148	248	374	535	733	973	1164
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
30	LL	--	--	22	45	49	82	96	158	237	337	460	609	784
	TL	--	--	23	53	58	100	119	199	302	433	586	784	1014
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.5" 3 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 3 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	295	1146	2547	4337	4530	6029	6548	8486	10386	12354	13868	13866	13865
	TL	390	1523	2833	4337	4530	6029	6548	8486	10386	12354	13868	13866	13865
	Brg	1.5	1.5	2.25	3.5	3.75	5	5.75	7.75	9.75	11.75	12	12	12
8	LL	126	491	1124	2248	2435	3589	3934	5208	6506	7854	9181	10781	10779
	TL	165	650	1489	2532	2662	3589	3934	5208	6506	7854	9181	10781	10779
	Brg	1.5	1.5	1.5	2.75	2.75	3.75	4.25	5.75	7.25	9	11.25	12	12
10	LL	65	253	581	1192	1283	2093	2432	3475	4364	5342	6340	7386	8538
	TL	84	333	768	1582	1703	2357	2589	3475	4364	5342	6340	7386	8538
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
12	LL	38	147	338	702	761	1238	1449	2327	3117	3827	4592	5389	6227
	TL	47	192	445	929	993	1642	1811	2454	3117	3827	4592	5389	6227
	Brg	1.5	1.5	1.5	1.5	1.5	2.5	2.75	3.75	5	6.25	7.5	9	10.5
14	LL	24	93	214	444	481	792	928	1494	2192	2875	3457	4079	4739
	TL	29	119	279	584	634	1047	1227	1831	2328	2875	3457	4079	4739
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3.25	4.25	5.25	6.5	7.75	9
16	LL	--	62	143	298	323	537	629	1016	1494	2095	2688	3186	3707
	TL	--	79	185	390	423	707	829	1343	1800	2225	2688	3186	3707
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.75	5.75	6.75	8
18	LL	--	44	101	210	227	378	445	722	1063	1498	2027	2549	2978
	TL	--	54	128	272	295	495	583	950	1404	1751	2149	2549	2978
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	6	7
20	LL	--	32	74	153	166	276	325	531	783	1101	1497	1968	2433
	TL	--	38	92	197	213	359	423	691	1030	1444	1752	2081	2433
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.5	5.5	6.5
22	LL	--	24	55	115	125	208	244	401	593	835	1137	1496	1926
	TL	--	27	68	146	158	267	316	522	777	1099	1433	1730	2029
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	5.75
24	LL	--	--	42	89	96	160	188	309	460	649	883	1164	1499
	TL	--	--	51	111	120	204	241	400	573	850	1149	1460	1713
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.25
26	LL	--	--	33	70	76	126	148	243	363	514	700	923	1187
	TL	--	--	38	85	93	158	188	312	451	670	908	1211	1463
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	5
28	LL	--	--	27	56	61	101	119	195	291	413	563	744	958
	TL	--	--	29	67	73	125	148	248	374	535	733	973	1256
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	22	45	49	82	96	158	237	337	460	609	784
	TL	--	--	23	53	58	100	119	199	302	433	586	784	1025
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.5" 4 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 4 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	262	1019	2310	4608	4927	6599	7212	9400	11638	13912	16067	18489	18486
	TL	389	1522	3062	4717	4927	6599	7212	9400	11638	13912	16067	18489	18486
	Brg	1.5	1.5	1.75	2.75	3	4	4.5	6.25	7.75	9.5	11.75	12	12
8	LL	112	436	999	2045	2198	3568	4134	5692	7107	8660	10213	11825	13611
	TL	164	648	1491	2634	2867	3884	4257	5692	7107	8660	10213	11825	13611
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
10	LL	58	225	516	1073	1155	1883	2201	3521	4745	5808	6946	8121	9349
	TL	83	332	766	1589	1722	2532	2793	3748	4745	5808	6946	8121	9349
	Brg	1.5	1.5	1.5	1.5	1.75	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
12	LL	33	131	300	624	676	1112	1301	2100	3072	4148	4992	5877	6813
	TL	46	190	443	926	1004	1656	1939	2628	3366	4148	4992	5877	6813
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	5	6	7.25	8.5
14	LL	21	83	190	395	428	711	832	1340	1974	2775	3737	4422	5152
	TL	28	118	277	582	631	1053	1235	1961	2502	3098	3737	4422	5152
	Brg	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
16	LL	--	55	127	265	287	477	562	913	1343	1890	2564	3361	4009
	TL	--	77	183	387	420	704	829	1320	1931	2394	2899	3436	4009
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2	3	3.75	4.5	5.5	6.5
18	LL	--	39	90	187	202	336	395	646	954	1345	1827	2407	3083
	TL	--	52	126	270	293	491	580	953	1414	1900	2308	2746	3207
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	4.75	5.75
20	LL	--	28	65	136	148	245	289	473	702	991	1347	1777	2286
	TL	--	36	90	194	211	355	420	694	1036	1447	1839	2229	2617
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	21	49	102	111	185	217	356	530	751	1019	1345	1732
	TL	--	26	65	143	156	264	312	518	777	1074	1506	1855	2175
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	4	4.75
24	LL	--	--	38	79	85	142	167	275	410	581	791	1045	1346
	TL	--	--	49	108	118	201	238	396	597	851	1164	1530	1835
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
26	LL	--	--	30	62	67	112	132	216	323	459	626	828	1065
	TL	--	--	36	83	90	155	184	308	466	668	905	1209	1565
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4
28	LL	--	--	24	50	54	90	105	173	259	368	503	666	859
	TL	--	--	27	64	70	122	145	244	370	532	732	974	1261
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	--	40	44	73	86	141	210	300	410	544	702
	TL	--	--	--	50	55	97	115	195	297	429	593	779	1026
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3

1.5" 4 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 4 Ply LL/240 TL/180 C _D =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	393	1528	3430	5355	5593	7443	8135	10608	12976	15522	18370	18489	18486
	TL	521	2031	3494	5355	5593	7443	8135	10608	12976	15522	18370	18489	18486
	Brg	1.5	1.5	2	3.25	3.5	4.75	5.25	7	9	10.75	12	12	12
8	LL	168	654	1499	3021	3272	4423	4849	6451	8057	9725	11473	13289	14372
	TL	220	866	1985	3120	3278	4423	4849	6451	8057	9725	11473	13289	14372
	Brg	1.5	1.5	1.5	2.5	2.5	3.5	4	5.25	6.75	8.5	10.25	12	12
10	LL	87	338	775	1590	1722	2808	3147	4278	5394	6604	7867	9164	10512
	TL	112	444	1025	2030	2113	2890	3147	4278	5394	6604	7867	9164	10512
	Brg	1.5	1.5	1.5	2	2	2.75	3	4.25	5.5	6.75	8.25	10	11.75
12	LL	50	197	451	937	1015	1660	1942	3031	3847	4725	5669	6674	7711
	TL	63	256	593	1239	1325	1980	2198	3031	3847	4725	5669	6674	7711
	Brg	1.5	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
14	LL	32	124	285	592	642	1057	1237	2001	2863	3542	4263	5045	5845
	TL	38	159	372	779	845	1396	1636	2251	2863	3542	4263	5045	5845
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	4.75	6	7	8.5
16	LL	21	83	191	398	431	716	839	1355	1999	2742	3312	3926	4580
	TL	24	105	247	520	564	943	1106	1732	2212	2742	3312	3926	4580
	Brg	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
18	LL	--	58	135	280	303	504	593	962	1422	2004	2640	3140	3667
	TL	--	72	171	363	394	660	778	1267	1757	2183	2640	3140	3667
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.75	5.5	6.5
20	LL	--	43	98	204	222	368	433	708	1044	1473	2002	2562	3001
	TL	--	51	123	262	285	478	564	922	1374	1774	2152	2562	3001
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5	5.75
22	LL	--	32	74	154	167	277	326	534	791	1117	1520	2006	2496
	TL	--	36	90	195	211	357	421	697	1037	1435	1787	2129	2496
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25
24	LL	--	25	57	118	128	214	251	412	614	865	1178	1556	2004
	TL	--	27	68	148	161	272	322	534	764	1133	1504	1793	2103
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	--	45	93	101	168	198	324	484	685	933	1233	1590
	TL	--	--	51	114	124	211	250	417	601	893	1211	1514	1798
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5
28	LL	--	--	36	75	81	135	158	260	388	550	750	992	1280
	TL	--	--	39	89	97	167	198	331	499	714	978	1298	1552
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
30	LL	--	--	29	61	66	109	129	211	316	449	613	812	1045
	TL	--	--	30	70	77	133	158	266	403	578	782	1045	1353
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.5" 4 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 4 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	393	1528	3396	5783	6040	8039	8730	11315	13848	16472	18491	18489	18486
	TL	521	2031	3778	5783	6040	8039	8730	11315	13848	16472	18491	18489	18486
	Brg	1.5	1.5	2.25	3.5	3.75	5	5.75	7.75	9.75	11.75	12	12	12
8	LL	168	654	1499	2998	3247	4785	5246	6945	8674	10472	12241	14374	14372
	TL	220	866	1985	3376	3550	4785	5246	6945	8674	10472	12241	14374	14372
	Brg	1.5	1.5	1.5	2.75	2.75	3.75	4.25	5.75	7.25	9	11.25	12	12
10	LL	87	338	775	1590	1711	2791	3243	4633	5819	7123	8454	9848	11385
	TL	112	444	1025	2109	2271	3142	3452	4633	5819	7123	8454	9848	11385
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
12	LL	50	197	451	937	1015	1651	1932	3103	4156	5103	6123	7185	8303
	TL	63	256	593	1239	1325	2189	2415	3273	4156	5103	6123	7185	8303
	Brg	1.5	1.5	1.5	1.5	1.5	2.5	2.75	3.75	5	6.25	7.5	9	10.5
14	LL	32	124	285	592	642	1057	1237	1993	2923	3833	4609	5439	6319
	TL	38	159	372	779	845	1396	1636	2441	3105	3833	4609	5439	6319
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3.25	4.25	5.25	6.5	7.75	9
16	LL	21	83	191	398	431	716	839	1355	1992	2793	3584	4248	4943
	TL	24	105	247	520	564	943	1106	1790	2400	2967	3584	4248	4943
	Brg	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.75	5.75	6.75	8
18	LL	--	58	135	280	303	504	593	962	1417	1998	2703	3399	3971
	TL	--	72	171	363	394	660	778	1267	1872	2335	2865	3399	3971
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	6	7
20	LL	--	43	98	204	222	368	433	708	1044	1469	1996	2625	3245
	TL	--	51	123	262	285	478	564	922	1374	1926	2336	2775	3245
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.5	5.5	6.5
22	LL	--	32	74	154	167	277	326	534	791	1114	1516	1995	2569
	TL	--	36	90	195	211	357	421	697	1037	1465	1911	2307	2705
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	5.75
24	LL	--	25	57	118	128	214	251	412	614	865	1178	1552	1999
	TL	--	27	68	148	161	272	322	534	764	1133	1533	1947	2284
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.25
26	LL	--	--	45	93	101	168	198	324	484	685	933	1231	1583
	TL	--	--	51	114	124	211	250	417	601	893	1211	1615	1951
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	5
28	LL	--	--	36	75	81	135	158	260	388	550	750	992	1277
	TL	--	--	39	89	97	167	198	331	499	714	978	1298	1675
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	29	61	66	109	129	211	316	449	613	812	1045
	TL	--	--	30	70	77	133	158	266	403	578	782	1045	1366
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.75" 1 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 1 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	76	297	673	1322	1387	1850	2035	2653	3284	3925	4532	5360	5391
	TL	113	443	858	1322	1387	1850	2035	2653	3284	3925	4532	5360	5391
	Brg	1.5	1.5	1.75	2.75	2.75	4	4.25	6	7.5	9.25	11.5	12	12
8	LL	32	127	291	596	641	1040	1200	1596	2002	2440	2877	3347	3817
	TL	48	189	435	768	803	1089	1200	1596	2002	2440	2877	3347	3817
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
10	LL	--	65	150	313	336	552	646	1033	1336	1635	1955	2295	2642
	TL	--	96	223	463	502	691	767	1055	1336	1635	1955	2295	2642
	Brg	--	1.5	1.5	1.5	1.75	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
12	LL	--	38	87	182	197	324	379	612	900	1167	1404	1653	1916
	TL	--	55	129	270	292	483	550	743	947	1167	1404	1653	1916
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	7	8.25
14	LL	--	24	55	115	124	207	242	392	578	812	1050	1243	1448
	TL	--	34	80	169	184	307	360	549	703	871	1050	1243	1448
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
16	LL	--	--	37	77	83	139	163	266	393	553	750	966	1127
	TL	--	--	53	113	122	205	241	385	528	670	811	966	1127
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5.25	6.25
18	LL	--	--	26	54	59	98	115	188	278	392	534	702	901
	TL	--	--	36	78	85	143	169	278	412	533	638	769	901
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	3.75	4.75	5.5
20	LL	--	--	--	39	43	71	84	138	205	289	393	518	666
	TL	--	--	--	56	61	103	122	202	302	422	527	627	735
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	--	--	29	32	53	63	104	154	219	297	393	506
	TL	--	--	--	41	45	77	91	151	226	313	436	520	610
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	3.75	4.5
24	LL	--	--	--	23	25	41	48	80	119	169	230	304	393
	TL	--	--	--	31	34	58	69	115	174	248	339	438	509
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
26	LL	--	--	--	--	--	32	38	63	94	133	182	241	311
	TL	--	--	--	--	--	45	53	90	136	194	263	352	439
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75
28	LL	--	--	--	--	--	26	30	50	75	107	146	194	250
	TL	--	--	--	--	--	35	42	71	108	155	213	284	367
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	--	--	--	21	25	41	61	87	119	158	205
	TL	--	--	--	--	--	28	33	57	86	125	173	227	299
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3

1.75" 1 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 1 Ply LL/240 TL/180 C _D =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	114	445	981	1508	1579	2101	2296	2993	3684	4379	5151	5392	5391
	TL	152	590	981	1508	1579	2101	2296	2993	3684	4379	5151	5392	5391
	Brg	1.5	1.5	2	3	3.25	4.5	5	6.75	8.5	10.5	12	12	12
8	LL	49	190	437	862	920	1240	1366	1818	2270	2753	3232	3744	4191
	TL	64	252	564	862	920	1240	1366	1818	2270	2753	3232	3744	4191
	Brg	1.5	1.5	1.5	2.25	2.5	3.5	3.75	5	6.5	8	10	11.75	12
10	LL	25	98	226	466	502	813	897	1204	1518	1859	2214	2589	2970
	TL	32	129	298	540	598	813	897	1204	1518	1859	2214	2589	2970
	Brg	1.5	1.5	1.5	1.75	2	2.75	3	4	5.25	6.5	8	9.5	11.25
12	LL	--	57	131	273	296	484	566	850	1078	1329	1594	1877	2169
	TL	--	74	173	361	386	572	631	850	1078	1329	1594	1877	2169
	Brg	--	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.5	6.75	8	9.5
14	LL	--	36	83	172	187	308	361	583	805	994	1199	1418	1648
	TL	--	46	108	227	246	407	466	631	805	994	1199	1418	1648
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	6.75	8
16	LL	--	24	55	116	125	209	244	396	585	765	931	1103	1287
	TL	--	30	72	151	164	275	322	481	621	765	931	1103	1287
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
18	LL	--	--	39	81	88	147	173	280	414	584	741	882	1030
	TL	--	--	50	106	115	192	226	369	493	612	741	882	1030
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25	6.25
20	LL	--	--	28	59	64	107	126	206	304	431	585	719	841
	TL	--	--	35	76	83	139	164	268	400	498	604	719	841
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75	5.75
22	LL	--	--	21	44	48	80	95	156	230	326	443	586	699
	TL	--	--	26	56	61	104	122	203	302	412	501	591	699
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25	5.25
24	LL	--	--	--	34	37	62	73	120	179	252	344	455	586
	TL	--	--	--	43	46	79	93	155	222	330	415	503	590
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75
26	LL	--	--	--	27	29	49	57	94	141	199	272	359	465
	TL	--	--	--	33	36	61	73	121	175	260	353	429	499
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25
28	LL	--	--	--	21	23	39	46	75	113	160	218	289	374
	TL	--	--	--	26	28	48	57	96	145	208	285	370	435
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
30	LL	--	--	--	--	--	32	37	61	92	131	179	236	305
	TL	--	--	--	--	--	39	46	77	117	168	228	305	379
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75

1.75" 1 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 1 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	114	445	990	1621	1705	2254	2464	3213	3931	4675	5393	5392	5391
	TL	152	592	1059	1621	1705	2254	2464	3213	3931	4675	5393	5392	5391
	Brg	1.5	1.5	2.25	3.5	3.5	5	5.5	7.25	9.25	11.25	12	12	12
8	LL	49	190	437	881	947	1341	1478	1957	2444	2950	3465	4051	4191
	TL	64	252	579	951	995	1341	1478	1957	2444	2950	3465	4051	4191
	Brg	1.5	1.5	1.5	2.5	2.75	3.75	4	5.5	7	8.75	10.75	12	12
10	LL	25	98	226	463	499	814	951	1299	1638	2005	2380	2783	3192
	TL	32	129	298	615	648	881	971	1299	1638	2005	2380	2783	3192
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
12	LL	--	57	131	273	296	481	563	905	1169	1435	1722	2021	2335
	TL	--	74	173	361	386	620	684	921	1169	1435	1722	2021	2335
	Brg	--	1.5	1.5	1.5	1.5	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
14	LL	--	36	83	172	187	308	361	581	856	1078	1296	1529	1777
	TL	--	46	108	227	246	407	477	684	873	1078	1296	1529	1777
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3.25	4	5	6.25	7.5	8.75
16	LL	--	24	55	116	125	209	244	395	583	817	1007	1194	1389
	TL	--	30	72	151	164	275	322	522	671	834	1007	1194	1389
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.5	6.5	7.75
18	LL	--	--	39	81	88	147	173	280	413	582	791	955	1115
	TL	--	--	50	106	115	192	226	369	535	664	805	955	1115
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.75	6.75
20	LL	--	--	28	59	64	107	126	206	304	429	584	768	911
	TL	--	--	35	76	83	139	164	268	400	537	651	779	911
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25
22	LL	--	--	21	44	48	80	95	156	230	325	442	583	751
	TL	--	--	26	56	61	104	122	203	302	427	544	648	759
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.5
24	LL	--	--	--	34	37	62	73	120	179	252	343	453	584
	TL	--	--	--	43	46	79	93	155	222	330	447	542	637
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	--	--	27	29	49	57	94	141	199	272	359	462
	TL	--	--	--	33	36	61	73	121	175	260	353	466	547
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	4.75
28	LL	--	--	--	21	23	39	46	75	113	160	218	289	372
	TL	--	--	--	26	28	48	57	96	145	208	285	378	473
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	--	--	--	32	37	61	92	131	179	236	304
	TL	--	--	--	--	--	39	46	77	117	168	228	305	398
	Brg	--	--	--	--	--	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.75" 2 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 2 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	153	594	1347	2645	2774	3701	4071	5306	6568	7851	9065	10720	10783
	TL	227	887	1717	2645	2774	3701	4071	5306	6568	7851	9065	10720	10783
	Brg	1.5	1.5	1.75	2.75	2.75	4	4.25	6	7.5	9.25	11.5	12	12
8	LL	65	254	583	1192	1282	2081	2400	3192	4005	4881	5755	6694	7634
	TL	96	378	870	1536	1607	2178	2400	3192	4005	4881	5755	6694	7634
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
10	LL	33	131	301	626	673	1105	1292	2066	2672	3270	3911	4590	5284
	TL	48	193	447	927	1004	1383	1534	2110	2672	3270	3911	4590	5284
	Brg	1.5	1.5	1.5	1.5	1.75	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
12	LL	--	76	175	364	394	649	759	1225	1801	2334	2809	3307	3833
	TL	--	111	258	540	585	966	1101	1487	1894	2334	2809	3307	3833
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	7	8.25
14	LL	--	48	111	230	249	414	485	785	1157	1625	2101	2487	2897
	TL	--	69	161	339	368	614	720	1099	1407	1742	2101	2487	2897
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
16	LL	--	32	74	154	167	278	327	533	786	1107	1501	1932	2254
	TL	--	45	107	226	245	410	483	770	1056	1341	1623	1932	2254
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5.25	6.25
18	LL	--	22	52	109	118	196	230	377	557	785	1069	1404	1802
	TL	--	30	73	157	170	286	338	556	824	1067	1276	1539	1802
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	3.75	4.75	5.5
20	LL	--	--	38	79	86	143	168	276	410	578	786	1036	1333
	TL	--	--	52	113	123	207	245	405	604	844	1054	1254	1470
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	--	28	59	64	107	126	208	309	438	594	786	1013
	TL	--	--	38	83	91	154	182	302	453	626	872	1041	1221
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	3.75	4.5
24	LL	--	--	22	46	50	83	97	160	239	339	461	609	787
	TL	--	--	28	63	68	117	138	231	348	496	679	876	1019
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
26	LL	--	--	--	36	39	65	77	126	188	267	365	483	622
	TL	--	--	--	48	52	90	107	180	272	389	527	705	878
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75
28	LL	--	--	--	29	31	52	61	101	151	215	293	388	501
	TL	--	--	--	37	41	71	84	142	216	310	427	568	735
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	--	23	25	42	50	82	123	175	239	317	410
	TL	--	--	--	29	32	56	67	114	173	250	346	454	598
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3

1.75" 2 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 2 Ply LL/240 TL/180 C _D =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	229	891	1962	3017	3158	4202	4592	5987	7369	8758	10303	10785	10783
	TL	304	1181	1962	3017	3158	4202	4592	5987	7369	8758	10303	10785	10783
	Brg	1.5	1.5	2	3	3.25	4.5	5	6.75	8.5	10.5	12	12	12
8	LL	98	381	874	1725	1840	2481	2733	3636	4541	5507	6465	7488	8383
	TL	128	505	1128	1725	1840	2481	2733	3636	4541	5507	6465	7488	8383
	Brg	1.5	1.5	1.5	2.25	2.5	3.5	3.75	5	6.5	8	10	11.75	12
10	LL	50	197	452	933	1004	1627	1795	2409	3037	3718	4429	5179	5940
	TL	65	259	597	1080	1197	1627	1795	2409	3037	3718	4429	5179	5940
	Brg	1.5	1.5	1.5	1.75	2	2.75	3	4	5.25	6.5	8	9.5	11.25
12	LL	29	114	263	546	592	968	1133	1700	2157	2658	3189	3755	4339
	TL	37	149	346	722	773	1144	1263	1700	2157	2658	3189	3755	4339
	Brg	1.5	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.5	6.75	8	9.5
14	LL	--	72	166	345	374	616	722	1167	1610	1988	2398	2837	3296
	TL	--	93	217	454	493	814	933	1262	1610	1988	2398	2837	3296
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3	3.75	4.75	5.75	6.75	8
16	LL	--	48	111	232	251	418	489	793	1171	1530	1862	2207	2575
	TL	--	61	144	303	329	550	645	962	1243	1530	1862	2207	2575
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	5	6	7
18	LL	--	34	78	163	177	294	346	561	829	1169	1483	1764	2061
	TL	--	42	100	212	230	385	453	739	986	1224	1483	1764	2061
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25	6.25
20	LL	--	25	57	119	129	215	253	413	609	862	1171	1439	1683
	TL	--	29	71	153	166	279	329	537	800	996	1209	1439	1683
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75	5.75
22	LL	--	--	43	89	97	161	190	312	461	652	886	1173	1399
	TL	--	--	52	113	123	208	245	406	605	825	1002	1183	1399
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25	5.25
24	LL	--	--	33	69	75	124	146	240	358	504	689	910	1172
	TL	--	--	39	86	93	158	187	311	445	661	830	1006	1181
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.25	4	4.75
26	LL	--	--	26	54	59	98	115	189	282	399	544	719	930
	TL	--	--	30	66	72	123	146	243	351	521	706	859	999
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.25
28	LL	--	--	21	43	47	78	92	151	226	321	437	579	748
	TL	--	--	23	52	56	97	115	193	291	416	570	741	871
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4
30	LL	--	--	--	35	38	64	75	123	184	262	358	473	611
	TL	--	--	--	41	45	78	92	155	235	337	456	610	759
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	3.75

1.75" 2 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 2 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	229	891	1981	3243	3410	4509	4928	6427	7863	9350	10786	10785	10783
	TL	304	1185	2118	3243	3410	4509	4928	6427	7863	9350	10786	10785	10783
	Brg	1.5	1.5	2.25	3.5	3.5	5	5.5	7.25	9.25	11.25	12	12	12
8	LL	98	381	874	1762	1894	2683	2957	3914	4888	5901	6930	8102	8383
	TL	128	505	1158	1903	1991	2683	2957	3914	4888	5901	6930	8102	8383
	Brg	1.5	1.5	1.5	2.5	2.75	3.75	4	5.5	7	8.75	10.75	12	12
10	LL	50	197	452	927	998	1628	1903	2598	3276	4011	4760	5566	6385
	TL	65	259	597	1230	1296	1762	1943	2598	3276	4011	4760	5566	6385
	Brg	1.5	1.5	1.5	2	2.25	3	3.25	4.5	5.75	7	8.75	10.25	12
12	LL	29	114	263	546	592	963	1127	1810	2338	2871	3445	4043	4671
	TL	37	149	346	722	773	1240	1368	1842	2338	2871	3445	4043	4671
	Brg	1.5	1.5	1.5	1.5	1.5	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
14	LL	--	72	166	345	374	616	722	1162	1712	2156	2592	3059	3554
	TL	--	93	217	454	493	814	954	1369	1746	2156	2592	3059	3554
	Brg	--	1.5	1.5	1.5	1.5	2	2.25	3.25	4	5	6.25	7.5	8.75
16	LL	--	48	111	232	251	418	489	790	1166	1635	2015	2388	2779
	TL	--	61	144	303	329	550	645	1044	1342	1668	2015	2388	2779
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.5	6.5	7.75
18	LL	--	34	78	163	177	294	346	561	827	1165	1582	1910	2231
	TL	--	42	100	212	230	385	453	739	1070	1328	1610	1910	2231
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.75	6.75
20	LL	--	25	57	119	129	215	253	413	609	859	1168	1536	1823
	TL	--	29	71	153	166	279	329	537	801	1074	1302	1559	1823
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25
22	LL	--	--	43	89	97	161	190	312	461	650	884	1167	1502
	TL	--	--	52	113	123	208	245	406	605	854	1088	1296	1519
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	4.75	5.5
24	LL	--	--	33	69	75	124	146	240	358	504	687	907	1169
	TL	--	--	39	86	93	158	187	311	445	661	894	1084	1274
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	--	26	54	59	98	115	189	282	399	544	718	925
	TL	--	--	30	66	72	123	146	243	351	521	706	933	1095
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	4.75
28	LL	--	--	21	43	47	78	92	151	226	321	437	579	745
	TL	--	--	23	52	56	97	115	193	291	416	570	757	946
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	--	35	38	64	75	123	184	262	358	473	609
	TL	--	--	--	41	45	78	92	155	235	337	456	610	797
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.75" 3 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 3 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	229	891	2021	4032	4311	5774	6310	8225	10183	12173	14058	16177	16175
	TL	341	1331	2679	4128	4311	5774	6310	8225	10183	12173	14058	16177	16175
	Brg	1.5	1.5	1.75	2.75	3	4	4.5	6.25	7.75	9.5	11.75	12	12
8	LL	98	381	874	1789	1923	3122	3617	4980	6219	7578	8936	10347	11910
	TL	144	567	1305	2305	2508	3398	3725	4980	6219	7578	8936	10347	11910
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
10	LL	50	197	452	939	1010	1648	1926	3081	4152	5082	6078	7106	8181
	TL	72	290	670	1390	1506	2215	2443	3280	4152	5082	6078	7106	8181
	Brg	1.5	1.5	1.5	1.5	1.75	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
12	LL	29	114	263	546	592	973	1139	1838	2688	3629	4368	5143	5961
	TL	40	166	387	810	878	1449	1696	2300	2945	3629	4368	5143	5961
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	5	6	7.25	8.5
14	LL	--	72	166	345	374	622	728	1172	1727	2428	3269	3869	4508
	TL	--	103	242	509	552	922	1080	1716	2189	2711	3269	3869	4508
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
16	LL	--	48	111	232	251	418	491	799	1175	1654	2243	2941	3508
	TL	--	67	160	339	368	616	725	1155	1690	2095	2537	3007	3508
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2	3	3.75	4.5	5.5	6.5
18	LL	--	34	78	163	177	294	346	565	835	1177	1598	2106	2697
	TL	--	46	110	236	256	430	507	834	1237	1662	2020	2402	2806
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	4.75	5.75
20	LL	--	25	57	119	129	215	253	414	615	867	1179	1555	2000
	TL	--	32	79	170	184	311	367	607	906	1266	1609	1951	2290
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	--	43	89	97	161	190	312	464	657	891	1177	1515
	TL	--	--	57	125	136	231	273	453	680	940	1317	1623	1903
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	4	4.75
24	LL	--	--	33	69	75	124	146	240	359	508	692	914	1178
	TL	--	--	42	94	103	176	208	346	522	745	1018	1339	1605
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
26	LL	--	--	26	54	59	98	115	189	282	401	548	724	932
	TL	--	--	32	72	79	136	161	270	408	584	791	1057	1369
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4
28	LL	--	--	21	43	47	78	92	151	226	322	440	582	751
	TL	--	--	24	56	61	106	127	213	324	466	641	852	1103
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	--	35	38	64	75	123	184	262	359	476	615
	TL	--	--	--	44	48	84	101	171	260	376	519	682	898
	Brg	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3

1.75" 3 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 3 Ply LL/240 TL/180 C _D =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	344	1337	3001	4685	4894	6513	7118	9282	11354	13581	16074	16177	16175
	TL	456	1777	3057	4685	4894	6513	7118	9282	11354	13581	16074	16177	16175
	Brg	1.5	1.5	2	3.25	3.5	4.75	5.25	7	9	10.75	12	12	12
8	LL	147	572	1312	2643	2863	3870	4243	5645	7050	8509	10039	11628	12575
	TL	193	758	1737	2730	2868	3870	4243	5645	7050	8509	10039	11628	12575
	Brg	1.5	1.5	1.5	2.5	2.5	3.5	4	5.25	6.75	8.5	10.25	12	12
10	LL	76	296	678	1391	1507	2457	2753	3744	4720	5778	6884	8018	9198
	TL	98	389	896	1776	1849	2529	2753	3744	4720	5778	6884	8018	9198
	Brg	1.5	1.5	1.5	2	2	2.75	3	4.25	5.5	6.75	8.25	10	11.75
12	LL	44	172	394	820	888	1452	1700	2652	3366	4134	4960	5840	6747
	TL	55	224	519	1084	1159	1733	1923	2652	3366	4134	4960	5840	6747
	Brg	1.5	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
14	LL	28	109	249	518	561	925	1083	1751	2505	3100	3730	4415	5114
	TL	33	139	325	682	739	1222	1432	1970	2505	3100	3730	4415	5114
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	4.75	6	7	8.5
16	LL	--	73	167	348	377	627	734	1185	1749	2399	2898	3435	4008
	TL	--	92	216	455	494	825	968	1515	1935	2399	2898	3435	4008
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
18	LL	--	51	118	245	265	441	519	842	1244	1754	2310	2747	3209
	TL	--	63	150	318	345	577	680	1109	1537	1910	2310	2747	3209
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.75	5.5	6.5
20	LL	--	37	86	179	194	322	379	619	913	1289	1752	2241	2626
	TL	--	44	107	229	249	418	494	806	1202	1552	1883	2241	2626
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5	5.75
22	LL	--	28	64	134	146	242	285	468	692	978	1330	1755	2184
	TL	--	32	79	170	185	312	368	609	907	1256	1564	1862	2184
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25
24	LL	--	21	50	104	112	187	220	360	537	757	1030	1361	1754
	TL	--	23	59	129	140	238	281	467	668	991	1316	1568	1840
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	--	39	81	88	147	173	284	424	599	816	1079	1391
	TL	--	--	45	100	108	185	219	365	526	781	1059	1324	1574
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5
28	LL	--	--	31	65	71	118	139	227	340	482	656	868	1120
	TL	--	--	34	78	85	146	173	289	437	624	855	1136	1358
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
30	LL	--	--	25	53	57	96	113	185	276	393	537	710	914
	TL	--	--	27	62	67	117	138	233	352	506	684	915	1184
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.75" 3 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 3 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	344	1337	2971	5060	5285	7034	7639	9901	12117	14413	16179	16177	16175
	TL	456	1777	3305	5060	5285	7034	7639	9901	12117	14413	16179	16177	16175
	Brg	1.5	1.5	2.25	3.5	3.75	5	5.75	7.75	9.75	11.75	12	12	12
8	LL	147	572	1312	2623	2841	4187	4590	6077	7590	9163	10711	12577	12575
	TL	193	758	1737	2954	3106	4187	4590	6077	7590	9163	10711	12577	12575
	Brg	1.5	1.5	1.5	2.75	2.75	3.75	4.25	5.75	7.25	9	11.25	12	12
10	LL	76	296	678	1391	1497	2442	2837	4054	5091	6233	7397	8617	9962
	TL	98	389	896	1845	1987	2750	3020	4054	5091	6233	7397	8617	9962
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
12	LL	44	172	394	820	888	1445	1691	2715	3636	4465	5357	6287	7265
	TL	55	224	519	1084	1159	1916	2113	2864	3636	4465	5357	6287	7265
	Brg	1.5	1.5	1.5	1.5	1.5	2.5	2.75	3.75	5	6.25	7.5	9	10.5
14	LL	28	109	249	518	561	925	1083	1744	2558	3354	4033	4759	5529
	TL	33	139	325	682	739	1222	1432	2136	2717	3354	4033	4759	5529
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3.25	4.25	5.25	6.5	7.75	9
16	LL	--	73	167	348	377	627	734	1185	1743	2444	3136	3717	4325
	TL	--	92	216	455	494	825	968	1567	2100	2596	3136	3717	4325
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.75	5.75	6.75	8
18	LL	--	51	118	245	265	441	519	842	1240	1748	2365	2974	3474
	TL	--	63	150	318	345	577	680	1109	1638	2043	2507	2974	3474
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	6	7
20	LL	--	37	86	179	194	322	379	619	913	1285	1747	2297	2839
	TL	--	44	107	229	249	418	494	806	1202	1685	2044	2428	2839
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.5	5.5	6.5
22	LL	--	28	64	134	146	242	285	468	692	975	1326	1746	2248
	TL	--	32	79	170	185	312	368	609	907	1282	1672	2019	2367
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	5.75
24	LL	--	21	50	104	112	187	220	360	537	757	1030	1358	1749
	TL	--	23	59	129	140	238	281	467	668	991	1341	1704	1999
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.25
26	LL	--	--	39	81	88	147	173	284	424	599	816	1077	1385
	TL	--	--	45	100	108	185	219	365	526	781	1059	1413	1707
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	5
28	LL	--	--	31	65	71	118	139	227	340	482	656	868	1117
	TL	--	--	34	78	85	146	173	289	437	624	855	1136	1466
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	25	53	57	96	113	185	276	393	537	710	914
	TL	--	--	27	62	67	117	138	233	352	506	684	915	1195
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.75" 4 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 4 Ply LL/360 TL/240 C _D =1.0 FLOOR												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	306	1188	2695	5376	5749	7699	8414	10967	13578	16231	18745	21570	21567
	TL	454	1775	3572	5504	5749	7699	8414	10967	13578	16231	18745	21570	21567
	Brg	1.5	1.5	1.75	2.75	3	4	4.5	6.25	7.75	9.5	11.75	12	12
8	LL	131	509	1166	2385	2564	4163	4823	6641	8292	10104	11915	13796	15880
	TL	192	756	1740	3073	3344	4531	4967	6641	8292	10104	11915	13796	15880
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
10	LL	67	263	602	1252	1347	2197	2568	4108	5536	6776	8104	9475	10908
	TL	97	387	894	1854	2009	2954	3258	4373	5536	6776	8104	9475	10908
	Brg	1.5	1.5	1.5	1.5	1.75	2.5	2.75	3.75	4.75	6	7.25	8.75	10.25
12	LL	39	153	351	729	789	1298	1518	2450	3584	4839	5825	6857	7948
	TL	54	222	516	1081	1171	1932	2262	3067	3927	4839	5825	6857	7948
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	5	6	7.25	8.5
14	LL	24	96	222	461	499	829	971	1563	2303	3237	4359	5159	6011
	TL	32	138	323	679	736	1229	1441	2288	2919	3615	4359	5159	6011
	Brg	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
16	LL	--	65	149	309	335	557	655	1066	1567	2206	2991	3921	4678
	TL	--	90	214	452	490	821	967	1540	2253	2793	3383	4009	4678
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2	3	3.75	4.5	5.5	6.5
18	LL	--	45	105	218	236	392	461	754	1114	1570	2131	2808	3597
	TL	--	61	147	315	341	573	676	1112	1649	2217	2693	3203	3742
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.5	3.25	4	4.75	5.75
20	LL	--	33	76	159	172	286	337	552	820	1156	1572	2073	2667
	TL	--	42	105	226	246	415	490	810	1208	1688	2146	2601	3053
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25	5
22	LL	--	25	57	119	129	215	253	416	619	876	1189	1569	2020
	TL	--	30	76	167	182	308	364	605	907	1253	1757	2164	2537
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3.25	4	4.75
24	LL	--	--	44	92	100	166	195	320	478	678	923	1219	1571
	TL	--	--	57	126	137	234	277	462	697	993	1358	1786	2140
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
26	LL	--	--	35	72	78	131	154	252	377	535	731	966	1243
	TL	--	--	42	96	105	181	215	360	544	779	1055	1410	1826
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4
28	LL	--	--	28	58	63	105	123	202	302	430	587	777	1002
	TL	--	--	32	75	82	142	169	285	432	621	855	1136	1471
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5
30	LL	--	--	22	47	51	85	100	164	246	350	479	635	820
	TL	--	--	24	58	64	113	135	228	347	501	692	909	1197
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3

1.75" 4 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

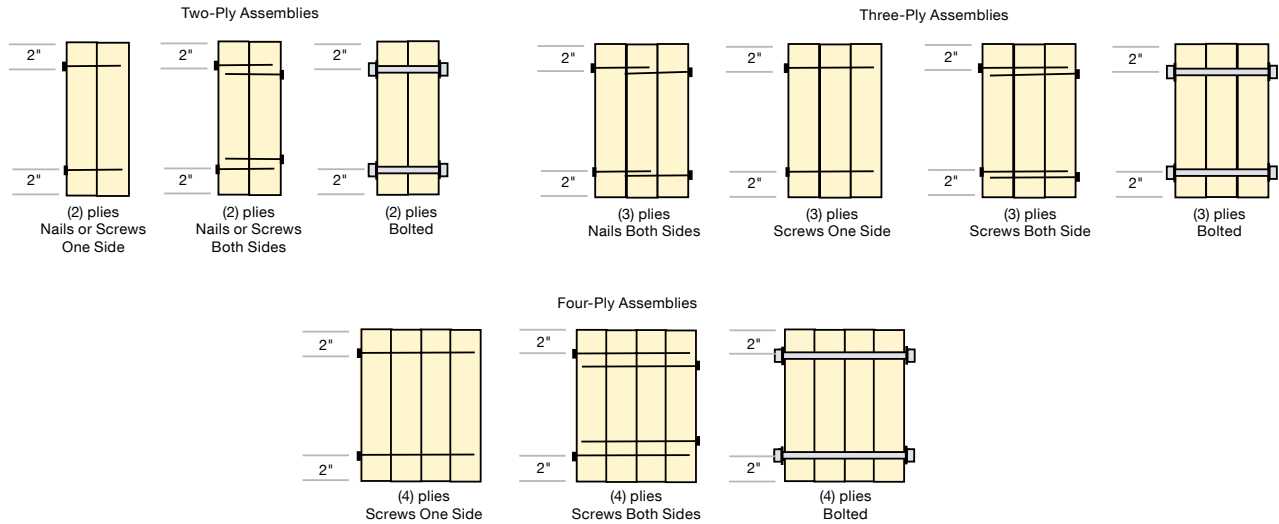
Clear Span		2.0E 4 Ply LL/240 TL/180 C _D =1.15 ROOF - SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	459	1783	4002	6247	6526	8684	9491	12376	15139	18109	21432	21570	21567
	TL	608	2370	4076	6247	6526	8684	9491	12376	15139	18109	21432	21570	21567
	Brg	1.5	1.5	2	3.25	3.5	4.75	5.25	7	9	10.75	12	12	12
8	LL	196	763	1749	3524	3818	5161	5657	7527	9400	11346	13386	15504	16767
	TL	257	1011	2316	3641	3824	5161	5657	7527	9400	11346	13386	15504	16767
	Brg	1.5	1.5	1.5	2.5	2.5	3.5	4	5.25	6.75	8.5	10.25	12	12
10	LL	101	394	904	1855	2009	3276	3671	4992	6294	7704	9179	10691	12264
	TL	130	519	1195	2369	2466	3372	3671	4992	6294	7704	9179	10691	12264
	Brg	1.5	1.5	1.5	2	2	2.75	3	4.25	5.5	6.75	8.25	10	11.75
12	LL	59	229	526	1093	1184	1937	2266	3536	4489	5513	6614	7786	8997
	TL	74	299	692	1445	1546	2311	2564	3536	4489	5513	6614	7786	8997
	Brg	1.5	1.5	1.5	1.5	1.5	2.25	2.5	3.5	4.5	5.75	7	8.25	9.75
14	LL	37	145	333	691	749	1233	1444	2335	3340	4133	4974	5886	6819
	TL	45	186	434	909	986	1629	1909	2626	3340	4133	4974	5886	6819
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3	4	4.75	6	7	8.5
16	LL	25	97	223	464	503	836	979	1581	2333	3199	3865	4580	5344
	TL	28	122	288	607	658	1100	1290	2020	2581	3199	3865	4580	5344
	Brg	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5.25	6.25	7.25
18	LL	--	68	157	327	354	588	692	1123	1659	2339	3080	3663	4279
	TL	--	84	200	424	460	770	907	1479	2049	2547	3080	3663	4279
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.75	5.5	6.5
20	LL	--	50	115	239	259	430	506	826	1218	1719	2336	2989	3502
	TL	--	59	143	306	332	558	658	1075	1603	2070	2511	2989	3502
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5	5.75
22	LL	--	37	86	179	194	323	380	624	923	1304	1773	2341	2912
	TL	--	43	105	227	247	416	491	813	1210	1674	2085	2483	2912
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5	5.25
24	LL	--	29	66	138	150	249	293	481	716	1009	1374	1815	2339
	TL	--	31	79	172	187	317	375	623	891	1322	1755	2091	2454
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.25	5
26	LL	--	22	52	109	118	196	231	379	565	799	1089	1439	1855
	TL	--	23	60	133	145	247	292	486	702	1042	1413	1766	2098
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	3.75	4.5
28	LL	--	--	42	87	94	157	185	303	453	642	875	1158	1493
	TL	--	--	46	104	113	195	231	386	583	833	1141	1514	1811
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.25
30	LL	--	--	34	71	77	128	150	247	369	524	716	947	1219
	TL	--	--	36	82	90	156	185	310	470	675	912	1220	1578
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

1.75" 4 Ply Stora Enso S-LVL PLF Beam Table (ASD)

Total Load (PLF) / Live Load (PLF) / Minimum Bearing (in)

Clear Span		2.0E 4 Ply LL/240 TL/180 C _D =1.25 ROOF - NON-SNOW LOAD AREA												
		3.5	5.5	7.25	9.25	9.5	11.25	11.875	14	16	18	20	22	24
6	LL	459	1783	3962	6746	7047	9379	10186	13201	16156	19218	21573	21570	21567
	TL	608	2370	4407	6746	7047	9379	10186	13201	16156	19218	21573	21570	21567
	Brg	1.5	1.5	2.25	3.5	3.75	5	5.75	7.75	9.75	11.75	12	12	12
8	LL	196	763	1749	3497	3789	5583	6120	8102	10120	12217	14281	16770	16767
	TL	257	1011	2316	3938	4141	5583	6120	8102	10120	12217	14281	16770	16767
	Brg	1.5	1.5	1.5	2.75	2.75	3.75	4.25	5.75	7.25	9	11.25	12	12
10	LL	101	394	904	1855	1997	3256	3783	5405	6788	8311	9863	11490	13282
	TL	130	519	1195	2461	2650	3666	4027	5405	6788	8311	9863	11490	13282
	Brg	1.5	1.5	1.5	2	2.25	3	3.5	4.5	6	7.25	9	10.75	12
12	LL	59	229	526	1093	1184	1927	2255	3620	4848	5954	7143	8383	9687
	TL	74	299	692	1445	1546	2554	2817	3818	4848	5954	7143	8383	9687
	Brg	1.5	1.5	1.5	1.5	1.5	2.5	2.75	3.75	5	6.25	7.5	9	10.5
14	LL	37	145	333	691	749	1233	1444	2325	3411	4472	5378	6346	7373
	TL	45	186	434	909	986	1629	1909	2848	3622	4472	5378	6346	7373
	Brg	1.5	1.5	1.5	1.5	1.5	2	2.25	3.25	4.25	5.25	6.5	7.75	9
16	LL	25	97	223	464	503	836	979	1581	2324	3258	4182	4956	5767
	TL	28	122	288	607	658	1100	1290	2089	2800	3462	4182	4956	5767
	Brg	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.75	5.75	6.75	8
18	LL	--	68	157	327	354	588	692	1123	1654	2331	3154	3966	4633
	TL	--	84	200	424	460	770	907	1479	2184	2725	3343	3966	4633
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	6	7
20	LL	--	50	115	239	259	430	506	826	1218	1713	2329	3062	3786
	TL	--	59	143	306	332	558	658	1075	1603	2247	2726	3238	3786
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.75	4.5	5.5	6.5
22	LL	--	37	86	179	194	323	380	624	923	1300	1768	2328	2997
	TL	--	43	105	227	247	416	491	813	1210	1709	2230	2692	3156
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3.25	4	5	5.75
24	LL	--	29	66	138	150	249	293	481	716	1009	1374	1810	2333
	TL	--	31	79	172	187	317	375	623	891	1322	1788	2272	2665
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.75	3.5	4.5	5.25
26	LL	--	22	52	109	118	196	231	379	565	799	1089	1436	1846
	TL	--	23	60	133	145	247	292	486	702	1042	1413	1884	2276
	Brg	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.25	3	4	5
28	LL	--	--	42	87	94	157	185	303	453	642	875	1158	1490
	TL	--	--	46	104	113	195	231	386	583	833	1141	1514	1955
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2.75	3.5	4.5
30	LL	--	--	34	71	77	128	150	247	369	524	716	947	1219
	TL	--	--	36	82	90	156	185	310	470	675	912	1220	1594
	Brg	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75	2.25	3	4

Multiple Member Connections



Connections for Multiple Member Top-Loaded Beams

Fastener Installation Requirements

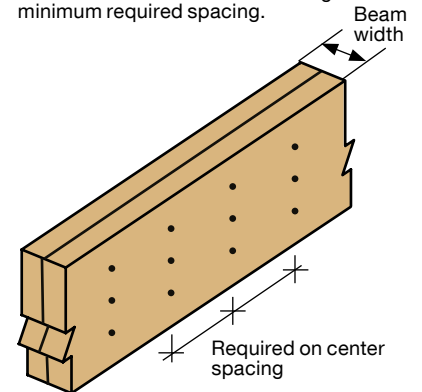
Member Thickness	No. of Members	Fastener Information				
		Type ⁽¹⁾	Min. Length	No. of Rows	On Center Spacing in Row	Application
1.5"	2	10d nails	3"	3 ⁽²⁾	12"	One side
		Screws	2 7/8" or 3"	2	24"	
	3	10d, 12d, 16d nails	3"	3 ⁽²⁾	12"	Both sides
		Screws	2 7/8" or 3"	2	24"	Both sides
			4 1/2" or 4 5/8"			One side
	4	10d, 12d, 16d nails	3"	3 ⁽²⁾	12"	Each ply ⁽³⁾
		Screws	4 1/2" or 4 5/8"	2	24"	Both sides
			6" or 6 3/8"			One side
1.75"	2	10d, 12d, 16d nails	3"	3 ⁽²⁾	12"	One side
		Screws	3 3/8" or 3 1/2"	2	24"	
	3	10d, 12d, 16d nails	3"	3 ⁽²⁾	12"	Both sides
		Screws	3 3/8" or 3 1/2"	2	24"	Both sides
			5"			One side
	4	10d, 12d, 16d nails	3"	3 ⁽²⁾	12"	Each ply ⁽³⁾
		Screws	5" or 6"	2	24"	Both sides
			6 3/4"			One side

(1) Nails are minimum 0.131" diameter; screws are Simpson SDS, MiTek WS, FastenMaster TrussLOK or Simpson SDW22.

(2) An additional row of nails is required with beam depths greater than 14".

(3) Nail each ply as indicated and offset nail rows by 2" from rows in the adjacent ply.

When fasteners are required on both sides, stagger fasteners from front side to back side while maintaining minimum required spacing.



Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams

Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

Connections for Multiple Member Side-Loaded Beams

Maximum Uniformly Distributed Load (PLF) that can be Applied to Either Outside Member of Beam^{1,2,3,4,5,10}

Member Thickness (inches)				1.5			1.75		
Fastener Type	Application	No. of Rows	Fastener Spacing in Row	No. of Members					
				2	3 ⁽⁶⁾	4	2	3 ⁽⁶⁾	4
10d (0.131"x3") Nails	One side only	2 ⁽⁹⁾	12"	385	—	—	385	—	—
	Both sides		12"	775	290	—	775	290	—
	One side only	3	12"	580	—	—	580	—	—
	Both sides		12"	1,160	435	—	1,160	435	—
½" Diameter A307 Through Bolts ⁽⁶⁾⁽⁷⁾	- - - -	2	12"	740	555	495	865	650	575
Screw Length				3"		6"	3 1/2"		6"
Simpson SDS	One side only	2	12"	800	—	665	980	—	—
	Both sides		12"	1,600	600	1,330	1,960	735	800
MiTek® WS	One side only	2	12"	905	—	605	905	—	—
	Both sides		12"	1,815	680	1,210	1,815	680	670
Screw Length				2 7/8"	4 1/2"	6"	3 3/8"	5"	6 3/4"
FastenMaster® TrussLOK®	One side only	2	12"	960	750	665	1,040	750	720
	Both sides		12"	1,920	1,500	1,330	2,080	1,500	1,440
Screw Length				3"	4 5/8"	6 3/8"	3 3/8"	5"	6 3/4"
Simpson SDW22	One side only	2	12"	1,020	765	680	1,020	720	680
	Both sides		12"	2,040	1,530	1,360	2,040	1,440	1,360

- Multiply the appropriate table value by:
 - 1.5 for fasteners spaced at 8" oc (203 mm) per row
 - 2 for fasteners spaced at 6" oc (152 mm) per row
 - 3 for fasteners spaced at 4" oc (102 mm) per row
 - 0.5 for bolts spaced at 24" oc (610 mm) per row
- Determine the appropriate beam size required to support the load before determining the connection requirements.
- Fastener applications assume adequate end distance, edge distance and spacing per NDS or fastener manufacturers specifications. When fasteners are required on both sides, stagger fasteners to maintain minimum required spacing.
- Load values listed are for normal load duration. Adjustment of the design stresses for duration of load shall be in accordance with the building code and NDS as applicable.
- Beams greater than four plies require special consideration by a registered design professional.
- A standard cut steel washer of minimum 0.109" thickness (2.8 mm), with a minimum outside dimension of 1 3/8" (35 mm), is required on each side of the beam between the wood and bolt head and nut.
- Bolted connections assume full diameter bolts with bending yield strength (F_y) of 45,000 psi (310 MPa). Bolt holes to be 3/16" maximum.
- Nailing is required from both sides for 3-ply beams.
- For beams up to 14" deep.
- Fasteners other than those listed may be acceptable. Use specific gravity of 0.5 for nailed connections with nails driven into the wide face and loaded perpendicular to grain. Use specific gravity of 0.45 for screws and bolts installed in the wide face and loaded perpendicular to grain. Refer to current edition of DrJ Technical Evaluation Report TER 1507-01 for additional information.



Maximum Concentrated Load (LBS) that can be Applied to Either Outside Member of Beam^{1,2,3,4,5,6,7}

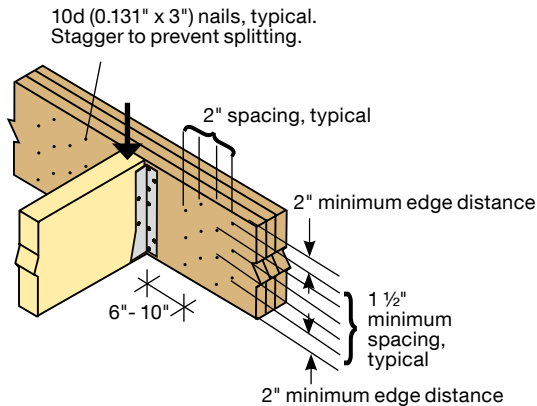
Member Thickness (inches)			1.5			1.75		
Fastener Type	Application	No. of Fasteners per Side at Concentrated Load	No. of Members					
			2	3	4	2	3	4
10d (0.131"x3")	One side only	6	1,160	—	—	1,160	—	—
	Both sides		2,325	870	—	2,325	870	—
	One side only	12	2,325	—	—	2,325	—	—
	Both sides		4,655	1,745	—	4,655	1,745	—
	One side only	18	3,490	—	—	3,490	—	—
	Both sides		6,980	2,615	—	6,980	2,615	—
	One side only	24	4,655	—	—	4,655	—	—
	Both sides		9,310	3,490	—	9,310	3,490	—
Screw Length			3"		6"	3 1/2"		6"
Simpson SDS	One side only	4	1,600	—	1,330	1,960	—	—
	Both sides		3,200	1,200	2,665	3,920	1,470	1,600
	One side only	6	2,400	—	2,000	2,940	—	—
	Both sides		4,800	1,800	4,000	5,880	2,205	2,400
	One side only	8	3,200	—	2,665	3,920	—	—
	Both sides		6,400	2,400	5,330	7,840	2,940	3,195
MiTek WS	One side only	4	1,815	—	1,210	1,815	—	—
	Both sides		3,630	1,360	2,420	3,630	1,360	2,695
	One side only	6	2,720	—	1,815	2,720	—	—
	Both sides		5,445	2,040	3,630	5,445	2,040	4,040
	One side only	8	3,630	—	2,420	3,630	—	—
	Both sides		7,260	2,720	4,840	7,260	2,720	5,390
Screw Length			2 7/8"	4 1/2"	6"	3 3/8"	5"	6 3/4"
FastenMaster TrussLOK	One side only	4	1,920	1,500	1,330	2,080	1,500	1,440
	Both sides		3,840	3,000	2,665	4,160	3,000	2,880
	One side only	6	2,880	2,250	2,000	3,120	2,250	2,160
	Both sides		5,760	4,500	4,000	6,240	4,500	4,320
	One side only	8	3,840	3,000	2,665	4,160	3,000	2,880
	Both sides		7,680	6,000	5,330	8,320	6,000	5,760
Screw Length			3"	4 5/8"	6 3/8"	3 3/8"	5"	6 3/4"
Simpson SDW22	One side only	4	2,040	1,530	1,360	2,040	1,440	1,360
	Both sides		4,080	3,060	2,720	4,080	2,880	2,720
	One side only	6	3,060	2,295	2,040	3,060	2,160	2,040
	Both sides		6,120	4,590	4,080	6,120	4,320	4,080
	One side only	8	4,080	3,060	2,720	4,080	2,880	2,720
	Both sides		8,160	6,120	5,440	8,160	5,760	5,440

1. Determine the appropriate beam size required to support the load before determining the connection requirements.
2. Fastener applications assume adequate end distance, edge distance and spacing per NDS or fastener manufacturers specifications. When fasteners are required on both sides, stagger fasteners to maintain minimum required spacing.
3. Connections are based on NDS or manufacturers test or evaluation reports.
4. Use specific gravity of 0.5 for nailed connections with nails driven into the wide face and loaded perpendicular to grain. Use specific gravity of 0.45 for screws and bolts installed in the wide face and loaded perpendicular to grain. Refer to current edition of DrJ Technical Evaluation Report TER 1507-01 for additional information.
5. Load values listed are for normal load duration. Adjustments for other load durations shall be in accordance with the code and NDS, as applicable.
6. Four-ply beams should be side-loaded only when loads are applied to both sides of the members or the beam is adequately braced to prevent rotation.
7. Connections for beams greater than four plies require a registered design professional.

Point Load Connector Spacing

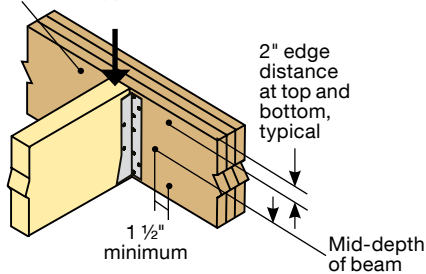
Note: There must be an equal number of fasteners on each side of the point load location.

Nail Connection



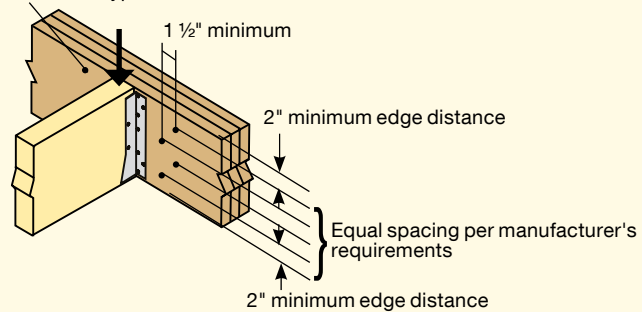
4- or 6-screw Connection

SDS, MiTek WS, TrussLOK, or SDW22 screws, typical

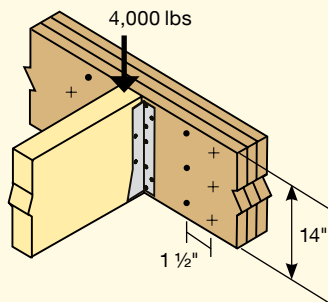


8-screw Connection

SDS, MiTek WS, TrussLOK, or SDW22 screws, typical



Point Load Design Example

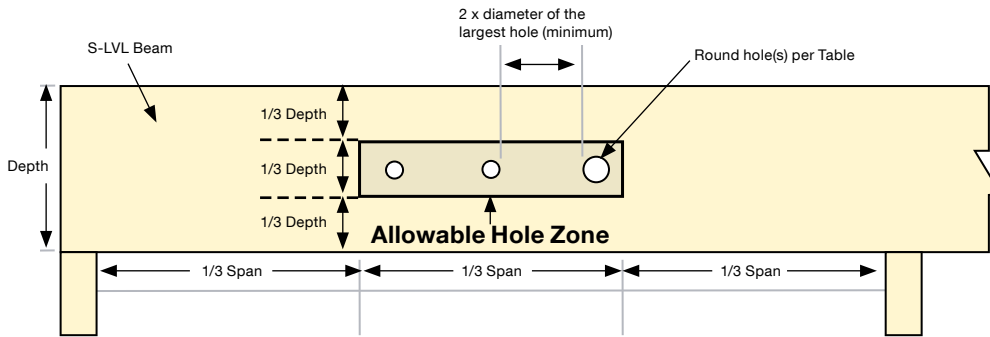


First, verify that a 3-ply, 1 1/4" x 14" beam can support a 4,000 lb point load and all other loads applied. The 4,000 lb point load is being transferred to the beam with a face mount hanger. For an assembly of three 1 1/4" plies, six 5" TrussLOK screws installed on both the front and back side of the beam can resist 4500 lbs. and six 5" SDW22 screws installed on both the front and back sides of the beam can resist 4320 lbs.



Allowable Holes

Stora Enso S-LVL Headers and Beams



Notes:

1. Allowable hole zone and hole sizes in table are valid for uniformly loaded beams and headers only. Allowable hole zone and hole sizes are not valid for cantilever sections.
2. Hole(s) must be located completely in the allowable hole zone.
3. Round holes only.
4. No more than three (3) holes allowed per span.
5. Hole location, clearance and effect of beam deflection should be considered to avoid problems with piping.
6. No holes in beams or headers in plank orientation.

Allowable Hole Sizes

Beam Depth	Max Round Hole Diameter
3 1/2" - 4 1/4"	3/4"
4 3/8" - 7"	1"
7 1/8" - 9 1/4"	1 1/2"
9 3/8" - 16"	2"
Deeper than 16"	3"

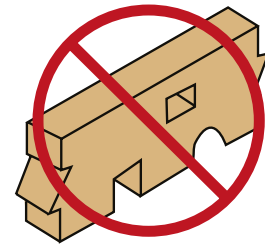
See illustration above for allowable hole zone.

⚠ WARNING

This product can expose you to chemicals including wood dust, which are known to the State of California to cause cancer, and methanol, which are known to the State of California to cause birth defects or other reproductive harm. Drilling, sawing, sanding or machining wood products can expose you to wood dust. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to P65Warnings.ca.gov and P65Warnings.ca.gov/wood.

Safety data sheets for Stora Enso S-LVL are available upon request.

Larger holes in Stora Enso S-LVL may be possible, refer to Stora Enso design software.



DO NOT cut, notch, or drill holes in headers or beams except as indicated in the illustrations and tables

Bearing Length Requirements

Reaction (lbs)	Stora Enso S-LVL Beam Orientation Width			
	1 3/4"	3 1/2"	5 1/4"	7"
2,000	1.5	1.5	1.5	1.5
4,000	2.75	1.5	1.5	1.5
6,000	4	2	1.5	1.5
8,000	5.25	2.75	1.75	1.5
10,000	6.5	3.25	2.25	1.75
12,000	7.75	4	2.75	2
14,000		4.5	3	2.25
16,000		5.25	3.5	2.75
18,000		5.75	4	3
20,000		6.5	4.25	3.25
22,000		7	4.75	3.5
24,000		7.75	5.25	4
26,000			5.75	4.25
28,000			6	4.5
30,000			6.5	5

Notes:

1. Minimum bearing length: 1 1/2" at ends, 3 1/2" at intermediate supports.
2. Bearing across full beam width is required.
3. Interpolation between reaction loads is permitted for determining bearing lengths.
4. Bearing lengths based on F_{CL} of S-LVL = 900 psi.



Tapered End Cuts

Allowable Reactions for 1 3/4"⁽¹⁾
Stora Enso S-LVL Beams (lbs)

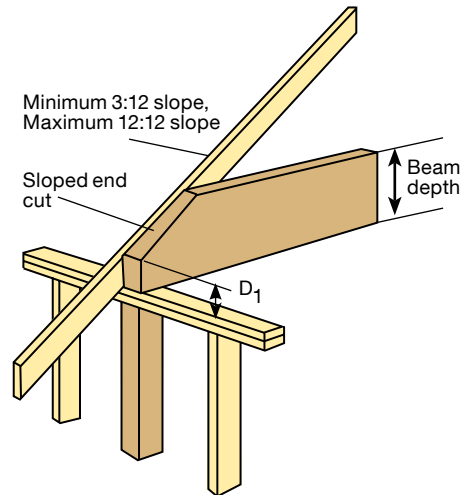
Bearing Width (in)	Beam Depth (in)	Minimum Depth at Inside Face of Bearing (in)	Outside Heel Height, D ₁ , (in)										
			3 7/8	4 5/8	4 7/8	6	6 1/4	7 3/4	8 3/4	10	11 7/8	12 3/8	13 5/8
3 1/2" Wood Plate ⁽²⁾	7 1/4	4 3/4	1,940	2,246	2,348	2,603	2,603						
	9 1/4	5 1/2	1,940	2,246	2,348	2,603	2,603	2,603					
	9 1/2	5 3/4	1,940	2,246	2,348	2,603	2,603	2,603					
	11 1/4	6 7/8	1,940	2,246	2,348	2,603	2,603	2,603	2,603	2,603			
	11 7/8	7 1/8		2,246	2,348	2,603	2,603	2,603	2,603	2,603			
	14	8 5/8			2,348	2,603	2,603	2,603	2,603	2,603	2,603	2,603	
	16 ⁽⁴⁾	9 5/8				2,603	2,603	2,603	2,603	2,603	2,603	2,603	2,603
	18 ⁽⁴⁾	10 7/8						2,603	2,603	2,603	2,603	2,603	2,603
	20 ⁽⁴⁾	12 3/4						2,603	2,603	2,603	2,603	2,603	2,603
	22 ⁽⁴⁾	13 1/4								2,603	2,603	2,603	2,603
	24 ⁽⁴⁾	14 1/2								2,603	2,603	2,603	2,603
5 1/2" Wood Plate ⁽²⁾	7 1/4	4 3/4	2,144	2,535	2,699								
	9 1/4	5 1/2	2,144	2,450	2,552	3,011	3,211	3,774					
	9 1/2	5 3/4	2,144	2,450	2,552	3,011	3,126	3,854					
	11 1/4	6 7/8	2,144	2,450	2,552	3,011	3,114	3,785	4,091				
	11 7/8	7 1/8	2,144	2,450	2,552	3,011	3,114	3,726	4,091	4,091			
	14	8 5/8		2,450	2,552	3,011	3,114	3,726	4,091	4,091	4,091	4,091	
	16 ⁽⁴⁾	9 5/8				3,011	3,114	3,726	4,091	4,091	4,091	4,091	4,091
	18 ⁽⁴⁾	10 7/8						3,726	4,091	4,091	4,091	4,091	4,091
	20 ⁽⁴⁾	12 3/4						3,726	4,091	4,091	4,091	4,091	4,091
	22 ⁽⁴⁾	13 1/4						3,726	4,091	4,091	4,091	4,091	4,091
	24 ⁽⁴⁾	14 1/2								4,091	4,091	4,091	4,091
3 1/2" Column ⁽³⁾	7 1/4	4 3/4	1,940	2,246	2,348	2,927	2,957						
	9 1/4	5 1/2	1,940	2,246	2,348	2,807	2,909	3,703					
	9 1/2	5 3/4	1,940	2,246	2,348	2,807	2,909	3,734					
	11 1/4	6 7/8	1,940	2,246	2,348	2,807	2,909	3,522	4,146	4,573			
	11 7/8	7 1/8	1,940	2,246	2,348	2,807	2,909	3,522	3,990	4,699			
	14	8 5/8			2,348	2,807	2,909	3,522	3,930	4,441	5,513	5,513	
	16 ⁽⁴⁾	9 5/8				2,807	2,909	3,522	3,930	4,441	5,206	5,513	5,513
	18 ⁽⁴⁾	10 7/8						3,522	3,930	4,441	5,206	5,410	5,513
	20 ⁽⁴⁾	12 3/4						3,522	3,930	4,441	5,206	5,410	5,513
	22 ⁽⁴⁾	13 1/4								4,441	5,206	5,410	5,513
	24 ⁽⁴⁾	14 1/2								4,441	5,206	5,410	5,513

(1) For 3 1/2", 5 1/4" and 7" beams, multiply by 2.0, 3.0, and 4.0, respectively.

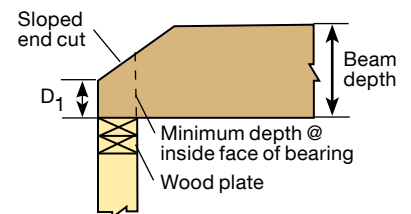
(2) Bearing assumes F_{C⊥} of 425 psi.

(3) Bearing assumes F_{C⊥} of 900 psi.

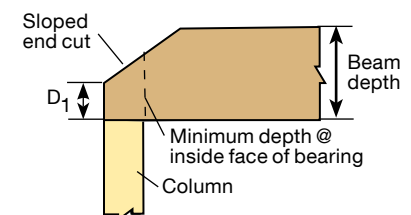
(4) 1.75" x 16", 1.75" x 18", 1.75" x 20", 1.75" x 22" and 1.75" x 24" beams are to be used as minimum two ply members ONLY unless both the top and bottom edge are braced the entire length of the beam and the ends at points of bearing are held in position to prevent rotation and/or lateral displacement.



Beam on Wood Plate

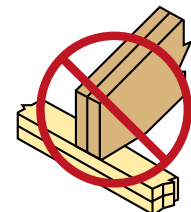


Beam on Column



General Notes for Tapered End Table:

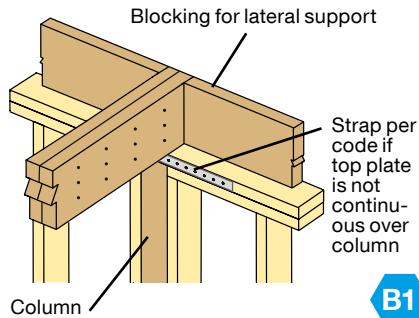
1. No increase for duration of load is permitted.
2. No holes or concentrated load within tapered cut.
3. Table considers only downward loading. Contact your Stora Enso representative for assistance with uplift loading or other conditions.
4. Larger reactions may be possible, refer to Stora Enso design software.



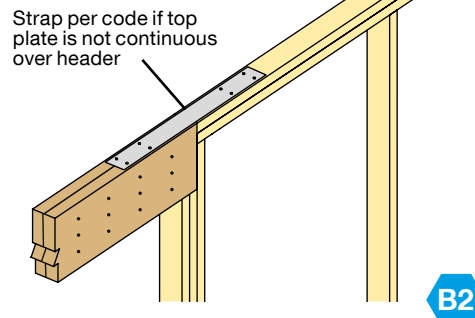
DO NOT overhang seat cuts on beams beyond inside face of support member

Beam Details

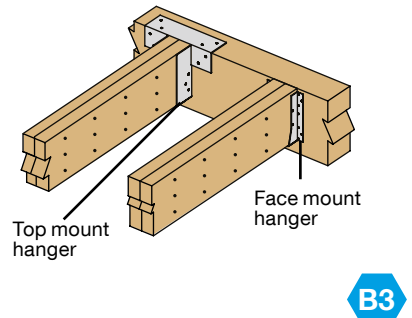
Bearing at Wall



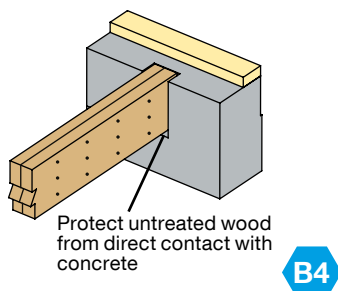
Bearing for Door or Window Header



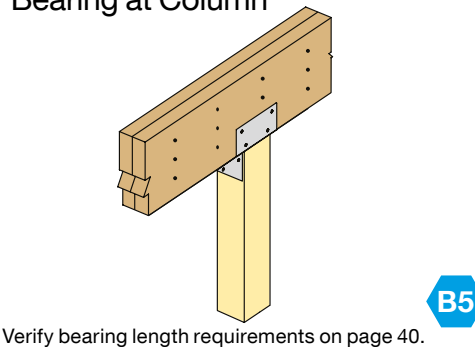
Beam to Beam Connection



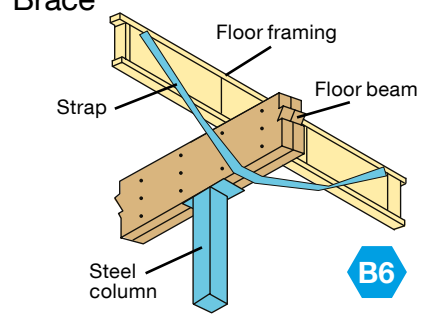
Bearing at Concrete Wall



Bearing at Column



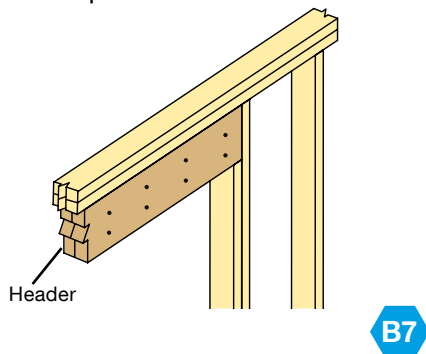
Beam to Column Lateral Brace



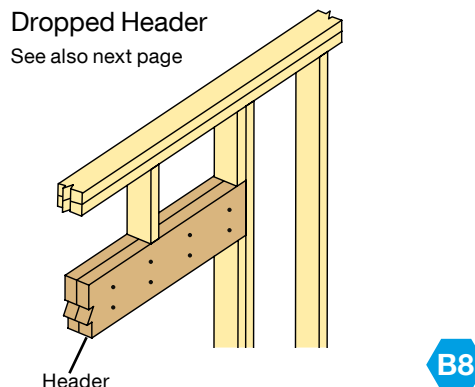
Suggested lateral bracing detail for beams when required. Verify beam bearing length requirements on page 40.

Window and Door Header Details

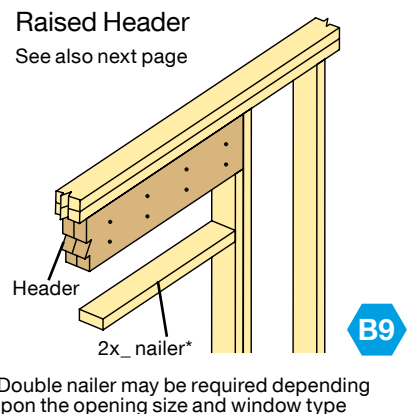
2x4 Wall Framing Full Depth Header



Dropped Header See also next page



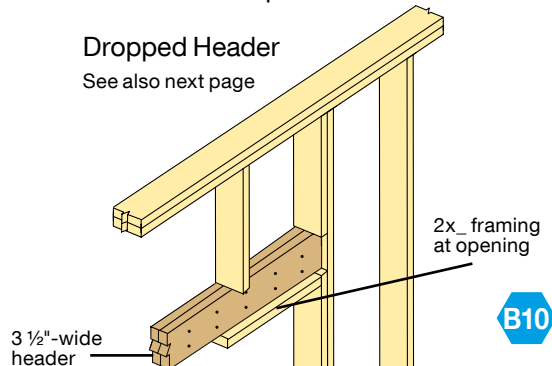
Raised Header See also next page



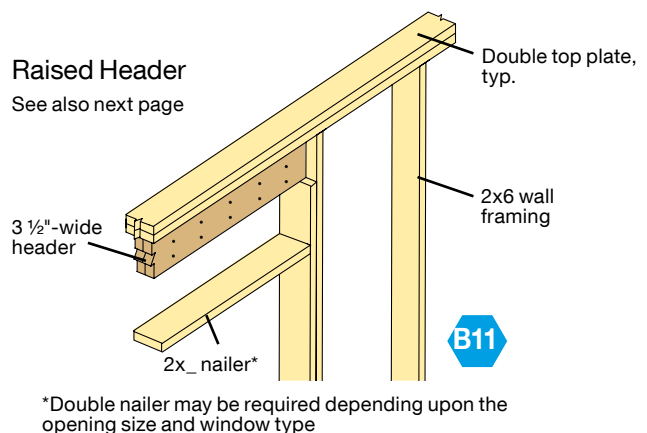
2x6 Wall Framing

Headers not matching wall thickness may be installed flush to the inside or outside face of the wall, depending upon sheathing and trim attachment requirements.

Dropped Header See also next page

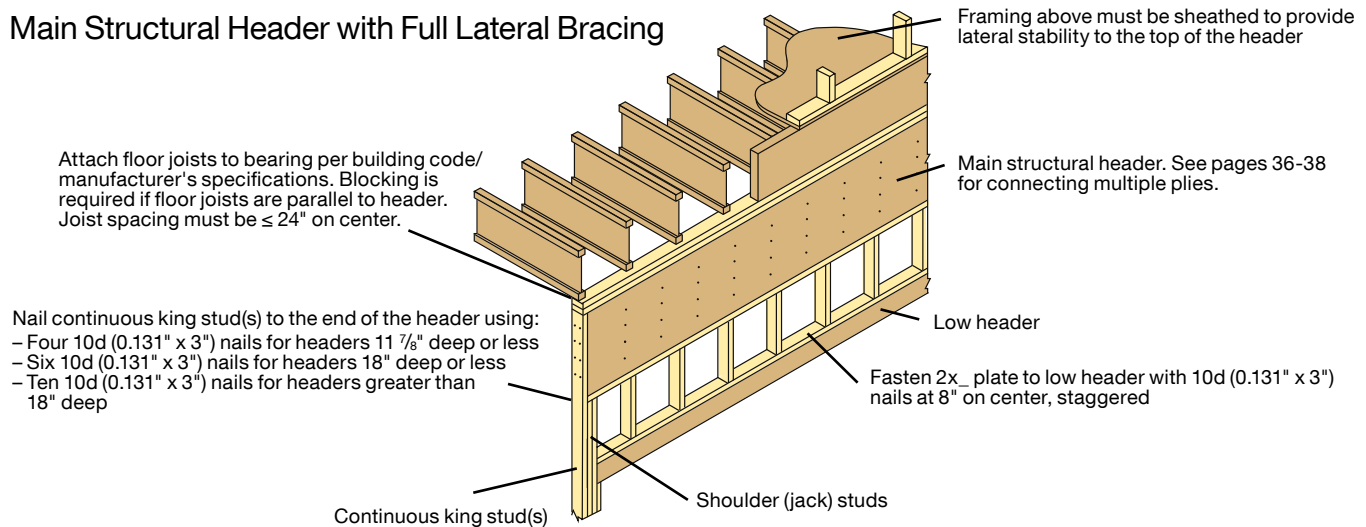


Raised Header See also next page

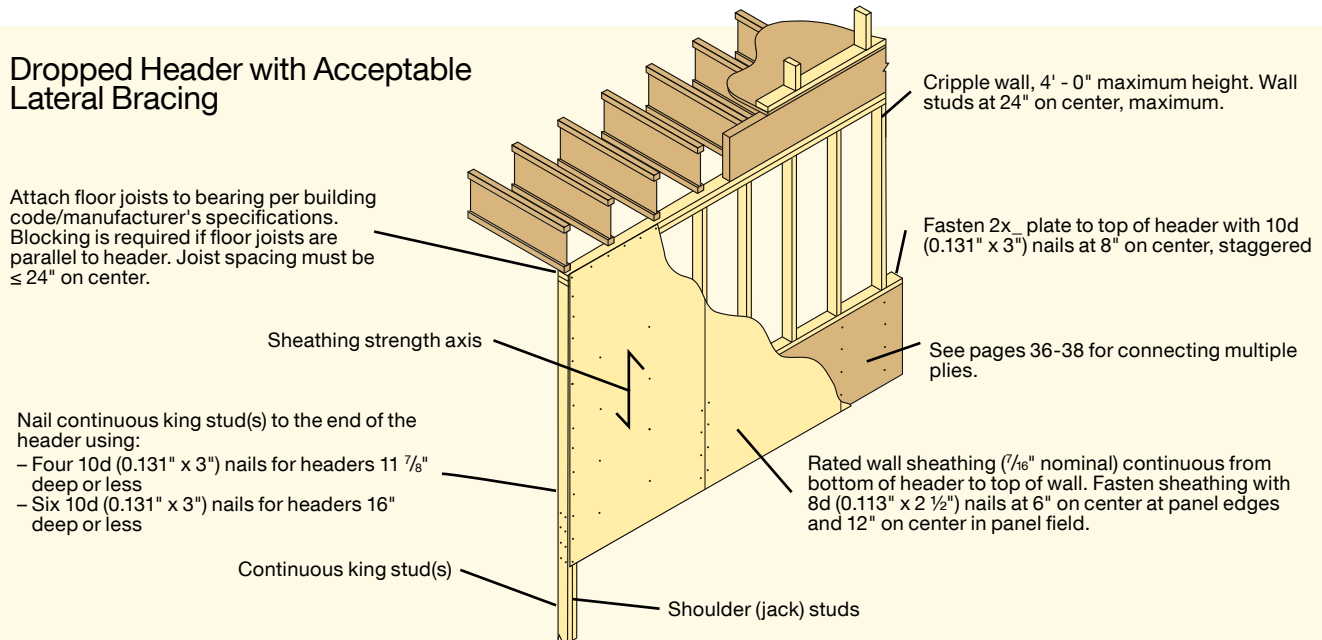


Dropped Header Details

Main Structural Header with Full Lateral Bracing



Dropped Header with Acceptable Lateral Bracing



When framed as shown above, the following dropped headers are considered fully braced under uniform load, simple span conditions:

Single-ply:

- 1 $\frac{3}{4}"$ wide headers, 11 $\frac{7}{8}"$ deep or less

Multiple-ply:

- Headers up to four 1 $\frac{3}{4}"$ plies, 11 $\frac{7}{8}"$ deep or less
- Headers up to four 1 $\frac{3}{4}"$ x 14" plies, with a maximum span of 8' - 6'

Nailing on Narrow Face

Nails Installed on the Narrow Face (i.e. parallel to the gluelines)

Nail Size	Stora Enso S-LVL	
	Closest On Center Spacing Per Row	Minimum End Distance
8d (0.131" x 2 $\frac{1}{2}"$)	3"	2"
10d (0.148" x 3") or 12d (0.148" x 3 $\frac{1}{4}"$)	4"	3"
16d (0.162" x 3 $\frac{1}{2}"$)	8" ⁽¹⁾	3"

(1) Member must be at least 1 $\frac{3}{4}"$ thick and 5 $\frac{1}{2}"$ wide.

- To minimize splitting, member edge distance and spacing between rows shall be 2.5 x nail diameter or $\frac{3}{8}"$, whichever is greater.

Where multiple rows are used, fasteners in adjacent rows must be staggered and the rows must be equally spaced from the centerline of the narrow face axis.

7. Insulated Header

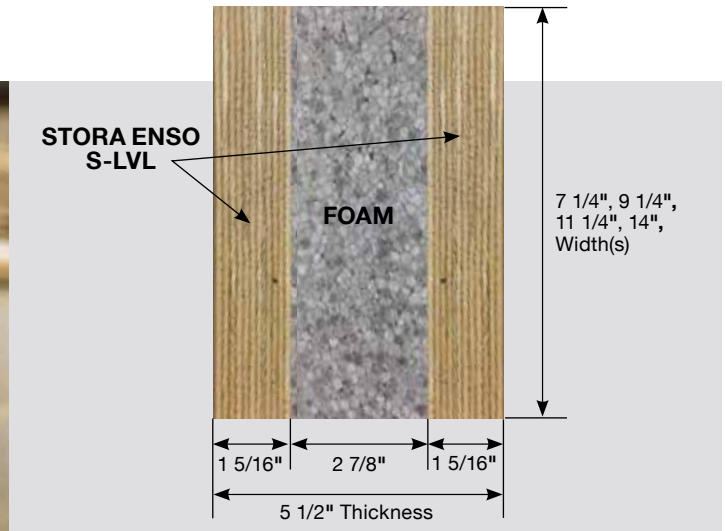
- 5-1/2" width for 2x6 construction
- Available in depths of 7-1/4", 9-1/4", 11-1/4" & 14"
- Full Thermal Break (Foam Core Construction)
- 5-1/2" Wide Header = R16
- Stock length is 24'
- Bonded with exterior structural adhesive

5-1/2" Construction Description

- 1-5/16" Stora Enso S-LVL
- 2-7/8" of Expanded Polystyrene (EPS)
- 1-5/16" Stora Enso S-LVL

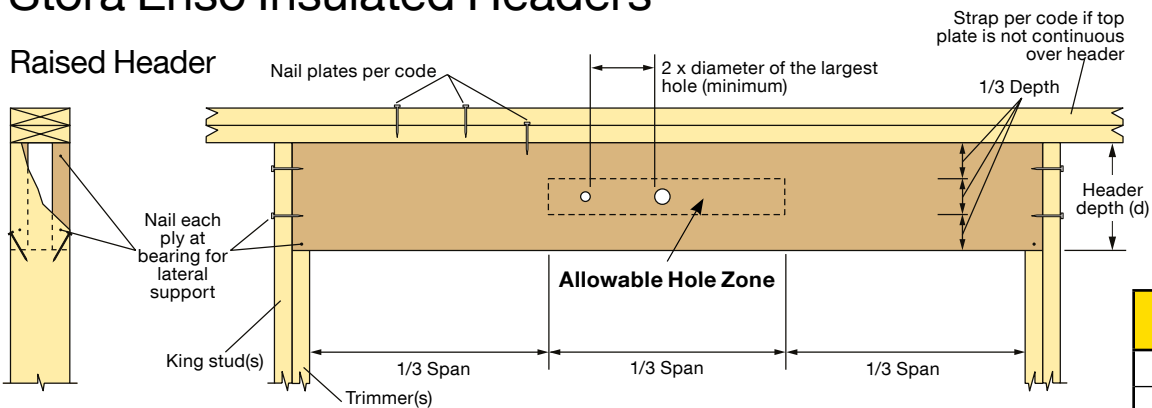
Code Evaluation Reports

- TER Nos. 1507-01 and 2210-02, Stora Enso S-LVL



Stora Enso Insulated Headers

Raised Header



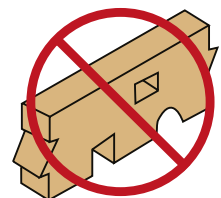
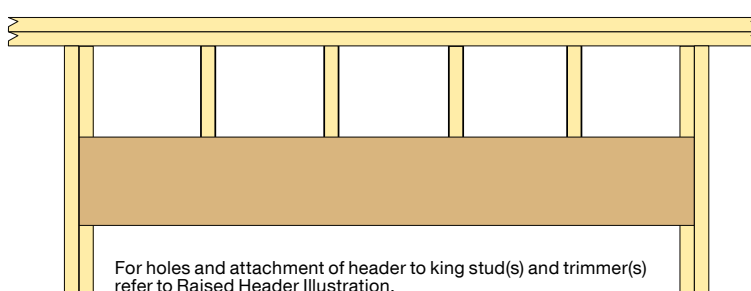
Header Depth	Max Round Hole Diameter
7 1/4" - 9 1/4"	1 1/2"
11 1/4" - 14"	2"

See illustration for allowable hole zone.

Notes for Holes:

1. Allowable hole zone and hole sizes in table are valid for uniformly loaded headers only.
2. No more than three (3) holes allowed per header.
3. Holes must be located completely in allowable hole zone.
4. Round holes only.
5. Hole location, clearance and effect of header deflection should be considered to avoid problems with piping.

Dropped Header



DO NOT cut, notch, or drill holes in headers or beams except as indicated in the illustrations and tables

Table 1. Raised Header

Live Load Deflection = $L/360$; Total Load Deflection = $L/240$; Lateral support at each end and along top (compression) edge of header at 24" on center or less

Rough Opening	Header Depth											
	7-1/4"				9-1/4"				11-1/4"			
	Total Load (L/240)				Total Load (L/240)				Total Load (L/240)			
	Live Load (L/360)	Floor (C _D =1.0)	Roof		Live Load (L/360)	Floor (C _D =1.0)	Roof		Live Load (L/360)	Floor (C _D =1.0)	Roof	
			Snow (C _D =1.15)	Non-Snow (C _D =1.25)			Snow (C _D =1.15)	Non-Snow (C _D =1.25)			Snow (C _D =1.15)	Non-Snow (C _D =1.25)
Allowable Uniform Load (PLF)												
2'-0"		3,336	3,336	3,336		3,336	3,336	3,336		3,336	3,336	3,336
2'-6"		2,700	2,700	2,700		2,700	2,700	2,700		2,700	2,700	2,700
3'-0"		2,270	2,270	2,270		2,270	2,270	2,270		2,270	2,270	2,270
3'-6"		1,956	1,956	1,956		1,956	1,956	1,956		1,956	1,956	1,956
4'-0"		2,578	2,926	3,150		3,332	3,332	3,332		3,332	3,332	3,332
5'-0"	1,620	1,690	1,920	2,064		2,616	2,696	2,696		2,696	2,696	2,696
6'-0"	962	1,192	1,354	1,440		1,846	2,072	2,212		2,264	2,264	2,264
7'-0"	616	886	922	922	1,280	1,370	1,548	1,642		1,922	1,950	1,950
8'-0"	418	624	624	624	868	1,058	1,188	1,268		1,484	1,642	1,712
9'-0"	298	442	442	442	616	840	920	920	1,108	1,180	1,306	1,376
10'-0"	218	324	324	324	454	676	676	676	814	960	1,062	1,120
11'-0"	166	244	244	244	344	510	510	510	616	796	882	920
12'-0"	128	188	188	188	266	394	394	394	476	670	710	710

Notes for Tables 1, 2 and 3:

1. Rough opening is the horizontal distance between supports.
2. Tables are for single span headers supporting uniformly distributed loads applied to the top of the header and distributed equally to both plies of LVL.
3. Bearing across the full header width is required. The minimum required bearing length is 1-1/2" for headers spanning over rough openings of 3'-6" or less and 3" for headers spanning over rough openings greater than 3'-6". Minimum required bearing length has been determined assuming a minimum compression strength of 900 psi (i.e. compression perpendicular-to-grain strength of Stora Enso S-LVL). If the compression strength of the support material is less than 900 psi, increase the bearing length accordingly. See also Notes for Table 4.
4. Header options shown meet the Live Load and Total Load deflection limits indicated for each Table. Long-term deflection (creep) has not been considered.
5. The uniform loads listed for Floor, Snow and Non-Snow are Total Loads and include the self weight of the header.
6. Only gravity loads applied vertically within the plane of the header have been considered. Contact your Stora Enso representative for assistance with uplift loading or other conditions.

Table 2. Raised Header

Live Load Deflection = $L/240$; Total Load Deflection = $L/180$; Lateral support at each end and along top (compression) edge of header at 24" on center or less

Header Depth												
Rough Opening	7-1/4"			9-1/4"			11-1/4"			14"		
	Live Load (L/240)	Total Load (L/180)		Live Load (L/240)	Total Load (L/180)		Live Load (L/240)	Total Load (L/180)		Live Load (L/240)	Total Load (L/180)	
		Roof			Roof			Roof			Roof	
		Snow (C _s =1.15)	Non-Snow (C _s =1.25)		Snow (C _s =1.15)	Non-Snow (C _s =1.25)		Snow (C _s =1.15)	Non-Snow (C _s =1.25)		Snow (C _s =1.15)	Non-Snow (C _s =1.25)
Allowable Uniform Load (PLF)												
2'-0"		3,336	3,336		3,336	3,336		3,336	3,336		3,336	3,336
2'-6"		2,700	2,700		2,700	2,700		2,700	2,700		2,700	2,700
3'-0"		2,270	2,270		2,270	2,270		2,270	2,270		2,270	2,270
3'-6"		1,956	1,956		1,956	1,956		1,956	1,956		1,956	1,956
4'-0"		2,926	3,150		3,332	3,332		3,332	3,332		3,332	3,332
5'-0"		1,920	2,064		2,696	2,696		2,696	2,696		2,696	2,696
6'-0"		1,354	1,456		2,072	2,212		2,264	2,264		2,264	2,264
7'-0"	922	1,004	1,082		1,548	1,642		1,950	1,950		1,954	1,954
8'-0"	624	776	832		1,188	1,268		1,642	1,712		1,714	1,714
9'-0"	442	590	590	920	944	1,008		1,306	1,376		1,528	1,528
10'-0"	324	434	434	676	768	820		1,062	1,120		1,384	1,384
11'-0"	244	328	328	510	636	680		882	930		1,234	1,254
12'-0"	188	252	252	394	526	526	710	742	782		1,040	1,076

Table 3. Dropped Header

Live Load Deflection = $L/360$; Total Load Deflection = $L/240$; Lateral support at ends of header only

Rough Opening	Header Depth											
	7-1/4"				9-1/4"				11-1/4"			
	Total Load (L/240)				Total Load (L/240)				Total Load (L/240)			
	Floor (C _D =1.0)	Roof			Floor (C _D =1.0)	Roof			Floor (C _D =1.0)	Roof		
		Snow (C _D =1.15)	Non-Snow (C _D =1.25)			Snow (C _D =1.15)	Non-Snow (C _D =1.25)			Snow (C _D =1.15)	Non-Snow (C _D =1.25)	
Allowable Uniform Load (PLF)												
2'-0"	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336
2'-6"	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700
3'-0"	2,270	2,270	2,270	2,270	2,270	2,270	2,270	2,270	2,270	2,270	2,270	2,270
3'-6"	1,956	1,956	1,956	1,956	1,956	1,956	1,956	1,956	1,956	1,956	1,956	1,956
4'-0"	2,206	2,340	2,396	3,052	3,154	3,196	3,332	3,332	3,332	3,332	3,332	3,332
5'-0"	1,286	1,332	1,350	1,674	1,706	1,716	2,080	2,106	2,114	2,630	2,646	2,654
6'-0"	810	826	834	1,024	1,036	1,042	1,236	1,246	1,250	1,556	1,564	1,568
7'-0"	536	544	548	676	682	684	804	808	810	994	998	1,000
8'-0"	372	376	380	468	472	474	556	560	562	672	674	676
9'-0"	268	272	274	338	340	342	402	404	406	484	486	488
10'-0"	198	200	202	250	252	254	298	300	302	360	362	364
11'-0"	152	154	156	190	192	194	228	230	232	274	276	278
12'-0"	118	120	120	148	150	150	176	178	180	214	216	218

Table 4.

Maximum Allowable Reactions (lbs) for Stora Enso Insulated Headers

Minimum Bearing Length	
1-1/2"	3"
3544	7088

Notes for Table 4:

1. Maximum allowable reactions assume a minimum compression strength of 900 psi. Increase the bearing length accordingly if the compression strength of the support material is less than 900 psi.
2. The material supporting the headers must be structurally adequate to safely carry the reactions shown.
3. Prescriptive requirements of the local building code may require larger bearing lengths for the headers. Adjust accordingly.

8. Stair Stringer



General Notes

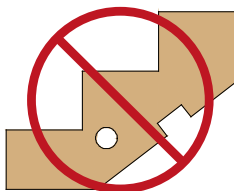
- For residential 40/12 loading, stringer geometry is based on a 7-3/4" rise with a 10" run (2021 IRC maximum rise and minimum run).
- For commercial 100/12 loading, stringer geometry is based on a 7" rise with an 11" run (2021 IBC maximum rise and minimum run).
- A design professional should be consulted if above rise and run values are exceeded and/or for loading/framing conditions outside the scope of this document.
- A deflection criteria of L/360 live load and L/240 total load was used in stringer run calculations.
- All stringer runs are based on a 100% duration of load and account for self-weight of member, rounded down to a whole tread run.
- Stringers are considered unstable until end connections are completed and treads are attached.
- Use subfloor adhesive between treads and stringers to minimize squeaks and improve stair performance.
- Use a moisture barrier or flashing where stringers are in direct contact with concrete.
- Table presumes stair width is equally shared by all stringers.
- Design of tread is by others; a tread thickness of 1" was assumed for geometry.
- Refer to appropriate building code for story height restrictions.
- Refer to **Stora Enso S-LVL TER 1507-01** and **TER 2210-02** for allowable design stresses. See also **Florida Product #29268** (FL29268).

Stora Enso S-LVL Stair Stringer Span Tables – Maximum Horizontal Stringer Run

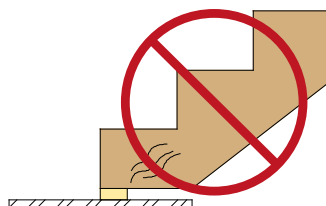
1-1/2" THICK LVL					
Gross Stringer Depth	Tread Width				
	36"		42"	44"	48"
	2 Stringers	3 Stringers	3 Stringers	3 Stringers	3 Stringers
40 psf Live Load & 12 psf Dead Load					
9-1/2"	5'-10"	6'-8"	5'-10"	5'-10"	5'-10"
11-7/8"	10'-0"	10'-10"	10'-10"	10'-10"	10'-0"
14"	13'-4"	15'-10"	15'-0"	15'-0"	14'-2"
16"	17'-6"	20'-0"	18'-4"	18'-4"	18'-4"
100 psf Live Load & 12 psf Dead Load					
9-1/2"	4'-7"	5'-6"	4'-7"	4'-7"	4'-7"
11-7/8"	8'-3"	9'-2"	8'-3"	8'-3"	8'-3"
14"	11'-0"	12'-10"	11'-11"	11'-11"	11'-0"
16"	13'-9"	15'-7"	14'-8"	14'-8"	14'-8"

1-3/4" THICK LVL					
Gross Stringer Depth	Tread Width				
	36"		42"	44"	48"
	2 Stringers	3 Stringers	3 Stringers	3 Stringers	3 Stringers
40 psf Live Load & 12 psf Dead Load					
9-1/2"	5'-10"	6'-8"	6'-8"	6'-8"	5'-10"
11-7/8"	10'-0"	11'-8"	10'-10"	10'-10"	10'-10"
14"	14'-2"	16'-8"	15'-10"	15'-0"	15'-0"
16"	18'-4"	20'-10"	20'-0"	19'-2"	19'-2"
100 psf Live Load & 12 psf Dead Load					
9-1/2"	4'-7"	5'-6"	5'-6"	5'-6"	4'-7"
11-7/8"	8'-3"	9'-2"	9'-2"	9'-2"	8'-3"
14"	11'-11"	12'-10"	12'-10"	11'-11"	11'-11"
16"	14'-8"	16'-6"	15'-7"	15'-7"	14'-8"

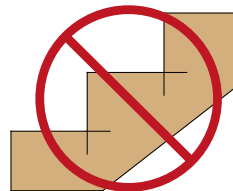
Guidelines



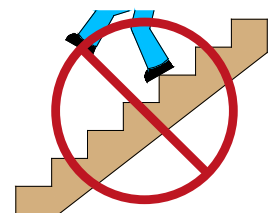
DO NOT notch or drill holes in stringer



DO NOT support stringer on nailer only

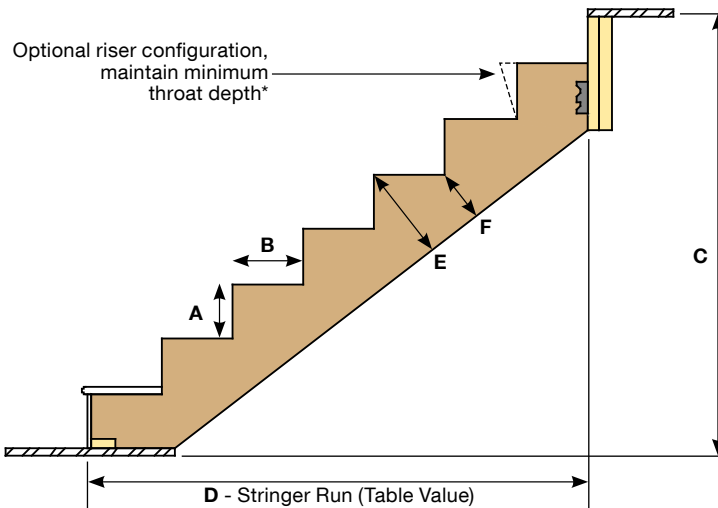


DO NOT overcut stringer steps



DO NOT walk on stringers until all treads and connections are completed

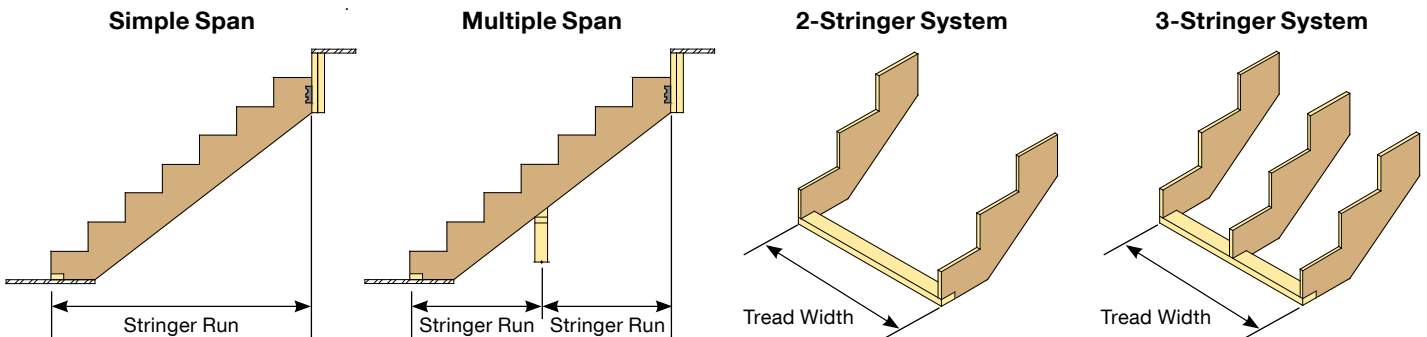
Terms & Definitions



A: Step Rise	Vertical rise of one step
B: Step Run	Horizontal length of one step
C: Total Rise	Vertical distance from low end to high end, measured from top of finished framing at each end
D: Stringer Run	Horizontal span of stringer, measured out-to-out (table value from span table above)
E: Gross Stringer Depth	Depth of stringer prior to step cuts
F: Throat Depth*	Net stringer depth after steps are cut, measured perpendicular to bottom edge of stringer

	*Minimum Throat Depth	
Stringer Depth	Residential (7-3/4" Rise & 10" Run)	Commercial (7" Rise & 11" Run)
9-1/2"	3-1/4"	3-1/2"
11-7/8"	5-5/8"	5-7/8"
14"	7-3/4"	8"
16"	9-3/4"	10"

Configurations

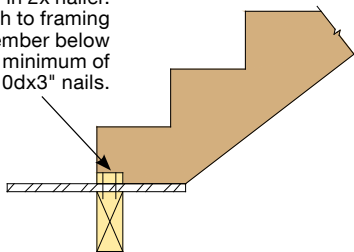


Connection Details

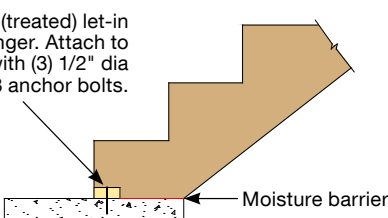
Connections assume 40 psf live load & 12 psf dead load (consult design professional for higher loading)

LOW END

Let-in 2x nailer. Attach to framing member below with a minimum of 8-10dx3" nails.



2x plate (treated) let-in to stringer. Attach to concrete with (3) 1/2" dia grade 8 anchor bolts.

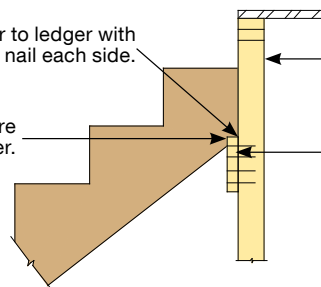


NOTE: Only use fasteners approved for use with the corresponding wood treatment.

HIGH END

Toe-nail stringer to ledger with 1-8dx1-1/2" nail each side.

Notch stringer here for tight fit to ledger.



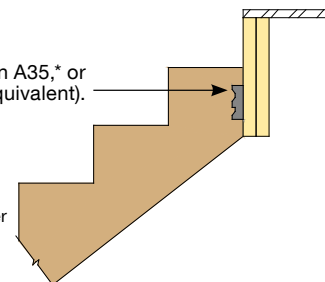
2x studs @ 16" o.c. max

2x8 ledger (min). Attach ledger to each stud with 4-16dx3-1/2" nails, staggered:

- 3 studs minimum for 9-1/2" and 11-7/8" deep stringers (12 nails total).
- 6 studs minimum (3 double studs) for 14" and 16" deep stringers (24 nails total).

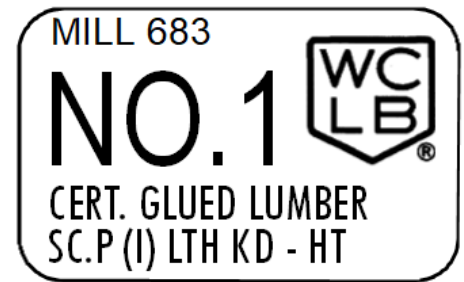
Simpson LSC, Simpson A35,* or Quick-Tie SC35* (or equivalent).

*If using shear clips, (1) clip is required per stringer for 9-1/2" & 11-7/8" stringer depths, (2) clips are required per stringer for 14" & 16" stringer depths.



9. Certified Glued Lumber

Certified Glued Lumber by Stora Enso is the optimal building material for commercial and residential construction. Its uniform quality, accurate size tolerance, and light weight delivers a precision finish every time. Certified Glued Lumber is manufactured to U.S. standards for use by builders, home improvers, frame and truss manufacturers, and more.



Dimension	Length	Strength grade	Species
2x4	Studs & PET	No.1	Pine

Char. values	GL No.1
Bending, F_b	1200 psi
Tension Parallel to Grain, F_t	525 psi
Shear Parallel to Grain, F_v	130 psi
Compression Perpendicular to Grain, $F_{c\text{perp}}$	430 psi
Compression Parallel to Grain, F_c	1210 psi
Modulus of Elasticity, E	1,400,000 psi

1. Tabulated design values are for normal load duration and dry service conditions.
2. Appropriate size factors have already been incorporated in the tabulated design values.
3. Bending design values adjusted by size factors are based on edgewise use (load applied to narrow face). When dimension lumber is used flatwise (load applied to wide face), the bending design value, F_b , shall also be multiplied by the Flat Use Factors found in NDS Table 4F.

3rd party control	Certification Agency
1st inspection / certification	Pacific Lumber Inspection Bureau (PLIB)
3rd party control	under the American Softwood Lumber Standard PS-20

Adhesive used according to the PLIB *Glued Lumber Standard* via the American Lumber Standards Committee (ALSC) *Glued Lumber Policy*:

Adhesive
Preferre 4546 resin with Preferre 5093 hardener

Surface quality according to Doc PS-20 of the American Lumber Standards Committee:

Surface Quality	Act. [mm]	Act. [inch]	Tolerances
Common No.1 S4S	Thickness: 38	1 1/2	±1/16"
	Width: 89	3 1/2	±1/16"



1/2022

10. Factory Built Structures

1-1/2" Stora Enso S-LVL Marriage Roof Ridge Beam

Simple or Two Span Condition (HUD Code Minimum — Non-Snow Load Deflection = Span/180)

Roof Load (PSF)	Beam Depth	Span and Bearing	Wind Zone	Unit Width								
				10'-0"	11'-8"	12'-0"	13'-0"	13'-4"	13'-8"	14'-6"	15'-0"	15'-6"
Non-Snow Area, 1.25 Duration of Load, 20 Roof Live Load + 10 Roof Dead Load	7 1/4"	Span	I	13' - 9"	13' - 1"	13' - 0"	12' - 8"	12' - 6"	12' - 5"	12' - 2"	12' - 1"	11' - 11"
			II	13' - 8"	12' - 11"	12' - 10"	12' - 6"	12' - 5"	12' - 3"	12' - 0"	11' - 11"	11' - 9"
			III	11' - 9"	11' - 2"	11' - 0"	10' - 9"	10' - 8"	10' - 7"	10' - 4"	10' - 3"	10' - 1"
		Bearing	ALL	1.7" / 4.2"	1.9" / 4.6"	1.9" / 4.7"	2" / 5"	2" / 5"	2.1" / 5.1"	2.2" / 5.3"	2.2" / 5.4"	2.3" / 5.6"
	9 1/4"	Span	I	17' - 7"	16' - 9"	16' - 7"	16' - 2"	16' - 0"	15' - 10"	15' - 7"	15' - 5"	15' - 2"
			II	17' - 6"	16' - 7"	16' - 5"	16' - 0"	15' - 10"	15' - 8"	15' - 5"	15' - 2"	15' - 0"
			III	15' - 0"	14' - 3"	14' - 1"	13' - 9"	13' - 7"	13' - 6"	13' - 3"	13' - 1"	12' - 11"
		Bearing	ALL	2.2" / 5.3"	2.4" / 5.9"	2.4" / 6"	2.6" / 6.3"	2.6" / 6.4"	2.6" / 6.5"	2.7" / 6.8"	2.8" / 6.9"	2.9" / 7.1"
	9 1/2"	Span	I	18' - 1"	17' - 2"	17' - 0"	16' - 7"	16' - 5"	16' - 3"	16' - 0"	15' - 10"	15' - 7"
			II	17' - 11"	17' - 0"	16' - 10"	16' - 5"	16' - 3"	16' - 1"	15' - 10"	15' - 7"	15' - 5"
			III	15' - 5"	14' - 7"	14' - 6"	14' - 1"	14' - 0"	13' - 10"	13' - 7"	13' - 5"	13' - 3"
		Bearing	ALL	2.2" / 5.5"	2.4" / 6"	2.5" / 6.2"	2.6" / 6.5"	2.7" / 6.6"	2.7" / 6.7"	2.8" / 7"	2.9" / 7.1"	2.9" / 7.3"
	11 1/4"	Span	I	21' - 4"	20' - 4"	20' - 2"	19' - 7"	19' - 5"	19' - 3"	18' - 10"	18' - 7"	18' - 3"
			II	21' - 3"	20' - 2"	20' - 0"	19' - 5"	19' - 3"	19' - 1"	18' - 9"	18' - 6"	18' - 3"
			III	18' - 3"	17' - 4"	17' - 2"	16' - 8"	16' - 7"	16' - 5"	16' - 1"	15' - 11"	15' - 9"
		Bearing	ALL	2.6" / 6.5"	2.9" / 7.2"	2.9" / 7.3"	3.1" / 7.7"	3.2" / 7.8"	3.2" / 7.9"	3.3" / 8.2"	3.4" / 8.4"	3.4" / 8.5"
	11 7/8"	Span	I	22' - 7"	21' - 5"	21' - 3"	20' - 8"	20' - 6"	20' - 4"	19' - 10"	19' - 6"	19' - 2"
			II	22' - 6"	21' - 4"	21' - 1"	20' - 7"	20' - 4"	20' - 2"	19' - 10"	19' - 6"	19' - 2"
			III	19' - 3"	18' - 4"	18' - 2"	17' - 8"	17' - 6"	17' - 4"	17' - 0"	16' - 10"	16' - 7"
		Bearing	ALL	2.8" / 6.8"	3.1" / 7.6"	3.1" / 7.7"	3.3" / 8.1"	3.3" / 8.2"	3.4" / 8.4"	3.5" / 8.7"	3.6" / 8.8"	3.6" / 8.9"
	14"	Span	I	26' - 7"	25' - 3"	25' - 0"	24' - 4"	24' - 2"	23' - 11"	23' - 3"	22' - 11"	22' - 6"
			II	26' - 7"	25' - 2"	24' - 11"	24' - 3"	24' - 1"	23' - 10"	23' - 3"	22' - 11"	22' - 6"
			III	22' - 9"	21' - 7"	21' - 5"	20' - 10"	20' - 8"	20' - 6"	20' - 1"	19' - 10"	19' - 7"
		Bearing	ALL	3.3" / 8.1"	3.6" / 8.9"	3.7" / 9.1"	3.9" / 9.6"	3.9" / 9.7"	4" / 9.9"	4.1" / 10.2"	4.2" / 10.3"	4.2" / 10.5"
	16"	Span	I	30' - 4"	28' - 10"	28' - 7"	27' - 10"	27' - 5"	27' - 2"	26' - 4"	25' - 11"	25' - 6"
			II	30' - 4"	28' - 10"	28' - 7"	27' - 9"	27' - 5"	27' - 2"	26' - 4"	25' - 11"	25' - 6"
			III	26' - 1"	24' - 9"	24' - 6"	23' - 10"	23' - 8"	23' - 5"	23' - 0"	22' - 8"	22' - 5"
		Bearing	ALL	3.7" / 9.3"	4.1" / 10.2"	4.2" / 10.4"	4.4" / 10.9"	4.5" / 11.1"	4.5" / 11.2"	4.6" / 11.5"	4.7" / 11.7"	4.8" / 11.9"
	18"	Span	I	34' - 1"	32' - 5"	32' - 1"	31' - 0"	30' - 8"	30' - 3"	29' - 5"	28' - 11"	28' - 6"
			II	34' - 1"	32' - 5"	32' - 1"	31' - 0"	30' - 8"	30' - 3"	29' - 5"	28' - 11"	28' - 6"
			III	29' - 4"	27' - 10"	27' - 7"	26' - 10"	26' - 7"	26' - 5"	25' - 10"	25' - 7"	25' - 3"
		Bearing	ALL	4.2" / 10.4"	4.6" / 11.5"	4.7" / 11.7"	4.9" / 12.2"	5" / 12.4"	5" / 12.5"	5.2" / 12.9"	5.3" / 13.1"	5.4" / 13.3"
	20"	Span	I	37' - 10"	36' - 0"	35' - 7"	34' - 3"	33' - 10"	33' - 5"	32' - 5"	31' - 11"	31' - 5"
			II	37' - 10"	36' - 0"	35' - 7"	34' - 3"	33' - 10"	33' - 5"	32' - 5"	31' - 11"	31' - 5"
			III	32' - 8"	31' - 0"	30' - 8"	29' - 10"	29' - 7"	29' - 4"	28' - 9"	28' - 5"	28' - 1"
		Bearing	ALL	4.7" / 11.6"	5.2" / 12.8"	5.2" / 13"	5.4" / 13.5"	5.5" / 13.7"	5.6" / 13.9"	5.7" / 14.3"	5.8" / 14.5"	5.9" / 14.7"
	22"	Span	I	41' - 7"	39' - 5"	38' - 10"	37' - 4"	36' - 11"	36' - 6"	35' - 5"	34' - 10"	34' - 4"
			II	41' - 7"	39' - 5"	38' - 10"	37' - 4"	36' - 11"	36' - 6"	35' - 5"	34' - 10"	34' - 4"
			III	36' - 0"	34' - 1"	33' - 9"	32' - 10"	32' - 7"	32' - 4"	31' - 8"	31' - 4"	30' - 11"
		Bearing	ALL	5.1" / 12.8"	5.7" / 14.1"	5.7" / 14.3"	6" / 14.8"	6" / 15"	6.1" / 15.2"	6.3" / 15.6"	6.4" / 15.9"	6.5" / 16.1"
	24"	Span	I	45' - 3"	42' - 8"	42' - 1"	40' - 6"	40' - 0"	39' - 7"	38' - 5"	37' - 10"	37' - 2"
			II	45' - 3"	42' - 8"	42' - 1"	40' - 6"	40' - 0"	39' - 7"	38' - 5"	37' - 10"	37' - 2"
			III	39' - 4"	37' - 3"	36' - 11"	35' - 11"	35' - 7"	35' - 3"	34' - 7"	34' - 2"	33' - 9"
		Bearing	ALL	5.6" / 14"	6.1" / 15.3"	6.2" / 15.5"	6.5" / 16.1"	6.5" / 16.3"	6.6" / 16.5"	6.8" / 17"	6.9" / 17.3"	7" / 17.5"

Marriage Ridge Beam Tables are based on:

1. Uniform loads (beam weight included)
2. More restrictive of simple or continuous span.
3. Bearings listed are Minimum End/Intermediate (inches) and assume a minimum bearing stress of 425 psi
4. Roof Live Loads, Snow Loads and Wind Zones are in accordance with the HUD Manufactured Home Construction and Safety Standards. Wind Loads for each Wind Zone are in accordance with ASCE 7-10.
5. Unit Width represents one-half of the width of the manufactured building. One 1 1/2" thick S-LVL beam is assumed to support the tributary from one-half the Unit Width. When the two units are installed the two 1 1/2" beams are attached together to create a 2-ply Marriage ridge beam.
6. Deflection criteria of Roof Live Load or Snow Load as indicated in Table heading. Total Load Deflection = Span/120.
7. Provide lateral support at each bearing and at no more than 24" on-center along the compression edge for the full depth of the beam.

1-1/2" Stora Enso S-LVL Marriage Roof Ridge Beam

Simple or Two Span Condition (HUD Code Minimum — Snow Load Deflection = Span/180)

Roof Load (PSF)	Beam Depth	Span and Bearing	Wind Zone	Unit Width								
				10'-0"	11'-8"	12'-0"	13'-0"	13'-4"	13'-8"	14'-6"	15'-0"	15'-6"
Snow Area, 1.15 Duration of Load, 30 Snow Load + 10 Roof Dead Load	7 1/4"	Span	ALL	11' - 9"	11' - 2"	11' - 0"	10' - 9"	10' - 8"	10' - 7"	10' - 4"	10' - 3"	10' - 1"
		Bearing		2" / 4.9"	2.2" / 5.4"	2.2" / 5.5"	2.3" / 5.7"	2.3" / 5.8"	2.4" / 5.9"	2.4" / 6"	2.5" / 6.1"	2.5" / 6.2"
	9 1/4"	Span	ALL	15' - 0"	14' - 3"	14' - 1"	13' - 9"	13' - 7"	13' - 6"	13' - 1"	12' - 10"	12' - 8"
		Bearing		2.5" / 6.2"	2.8" / 6.8"	2.8" / 6.9"	2.9" / 7.2"	2.9" / 7.3"	3" / 7.4"	3.1" / 7.6"	3.1" / 7.7"	3.2" / 7.8"
	9 1/2"	Span	ALL	15' - 5"	14' - 7"	14' - 6"	14' - 1"	14' - 0"	13' - 10"	13' - 5"	13' - 2"	13' - 0"
		Bearing		2.6" / 6.4"	2.8" / 7"	2.9" / 7.1"	3" / 7.4"	3" / 7.5"	3" / 7.5"	3.1" / 7.8"	3.2" / 7.9"	3.2" / 8"
	11 1/4"	Span	ALL	18' - 3"	17' - 4"	17' - 2"	16' - 7"	16' - 4"	16' - 2"	15' - 8"	15' - 5"	15' - 2"
		Bearing		3.1" / 7.6"	3.3" / 8.2"	3.3" / 8.3"	3.5" / 8.6"	3.5" / 8.7"	3.6" / 8.8"	3.7" / 9.1"	3.7" / 9.3"	3.8" / 9.4"
	11 7/8"	Span	ALL	19' - 3"	18' - 4"	18' - 2"	17' - 5"	17' - 3"	17' - 0"	16' - 6"	16' - 3"	16' - 0"
		Bearing		3.2" / 8"	3.5" / 8.6"	3.5" / 8.7"	3.7" / 9.1"	3.7" / 9.2"	3.7" / 9.3"	3.9" / 9.6"	3.9" / 9.7"	4" / 9.9"
	14"	Span	ALL	22' - 9"	21' - 7"	21' - 3"	20' - 5"	20' - 2"	19' - 11"	19' - 4"	19' - 0"	18' - 9"
		Bearing		3.8" / 9.4"	4.1" / 10.1"	4.1" / 10.2"	4.3" / 10.6"	4.3" / 10.8"	4.4" / 10.9"	4.5" / 11.2"	4.6" / 11.4"	4.7" / 11.6"
	16"	Span	ALL	26' - 1"	24' - 5"	24' - 1"	23' - 2"	22' - 10"	22' - 7"	21' - 11"	21' - 7"	21' - 3"
		Bearing		4.3" / 10.6"	4.6" / 11.5"	4.7" / 11.6"	4.9" / 12.1"	4.9" / 12.2"	5" / 12.4"	5.1" / 12.7"	5.2" / 13"	5.3" / 13.2"
	18"	Span	ALL	29' - 4"	27' - 3"	26' - 11"	25' - 10"	25' - 6"	25' - 3"	24' - 6"	24' - 1"	23' - 8"
		Bearing		4.8" / 11.9"	5.2" / 12.8"	5.2" / 13"	5.4" / 13.5"	5.5" / 13.7"	5.6" / 13.8"	5.7" / 14.2"	5.8" / 14.5"	5.9" / 14.7"
	20"	Span	ALL	32' - 5"	30' - 1"	29' - 8"	28' - 6"	28' - 2"	27' - 10"	27' - 0"	26' - 7"	26' - 2"
		Bearing		5.3" / 13.1"	5.7" / 14.2"	5.8" / 14.4"	6" / 14.9"	6.1" / 15.1"	6.1" / 15.3"	6.3" / 15.7"	6.4" / 16"	6.5" / 16.3"
	22"	Span	ALL	35' - 5"	32' - 10"	32' - 5"	31' - 2"	30' - 9"	30' - 5"	29' - 6"	29' - 1"	28' - 7"
		Bearing		5.8" / 14.4"	6.2" / 15.5"	6.3" / 15.7"	6.6" / 16.3"	6.6" / 16.5"	6.7" / 16.7"	6.9" / 17.2"	7" / 17.5"	7.2" / 17.8"
	24"	Span	ALL	38' - 5"	35' - 7"	35' - 2"	33' - 9"	33' - 4"	33' - 0"	32' - 0"	31' - 6"	31' - 0"
		Bearing		6.3" / 15.6"	6.8" / 16.8"	6.9" / 17.1"	7.1" / 17.8"	7.2" / 18"	7.3" / 18.2"	7.5" / 18.7"	7.6" / 19"	7.8" / 19.3"
Snow Area, 1.15 Duration of Load, 40 Snow Load + 10 Roof Dead Load	7 1/4"	Span	ALL	11' - 0"	10' - 4"	10' - 3"	9' - 10"	9' - 8"	9' - 7"	9' - 4"	9' - 2"	9' - 0"
		Bearing		2.2" / 5.5"	2.4" / 6"	2.5" / 6.1"	2.6" / 6.4"	2.6" / 6.5"	2.7" / 6.5"	2.7" / 6.7"	2.8" / 6.8"	2.8" / 7"
	9 1/4"	Span	ALL	14' - 0"	13' - 0"	12' - 10"	12' - 4"	12' - 2"	12' - 1"	11' - 8"	11' - 4"	11' - 1"
		Bearing		2.8" / 7"	3.1" / 7.6"	3.1" / 7.7"	3.2" / 8"	3.3" / 8.1"	3.3" / 8.2"	3.4" / 8.5"	3.5" / 8.6"	3.5" / 8.7"
	9 1/2"	Span	ALL	14' - 5"	13' - 4"	13' - 2"	12' - 8"	12' - 6"	12' - 4"	12' - 0"	11' - 10"	11' - 7"
		Bearing		2.9" / 7.2"	3.1" / 7.8"	3.2" / 7.9"	3.3" / 8.2"	3.4" / 8.3"	3.4" / 8.4"	3.5" / 8.7"	3.6" / 8.8"	3.6" / 9"
	11 1/4"	Span	ALL	16' - 11"	15' - 8"	15' - 5"	14' - 10"	14' - 8"	14' - 6"	14' - 1"	13' - 10"	13' - 7"
		Bearing		3.4" / 8.5"	3.7" / 9.1"	3.7" / 9.3"	3.9" / 9.6"	3.9" / 9.7"	4" / 9.9"	4.1" / 10.2"	4.2" / 10.3"	4.2" / 10.5"
	11 7/8"	Span	ALL	17' - 9"	16' - 6"	16' - 3"	15' - 7"	15' - 5"	15' - 3"	14' - 9"	14' - 6"	14' - 4"
		Bearing		3.6" / 8.9"	3.9" / 9.6"	3.9" / 9.7"	4.1" / 10.1"	4.1" / 10.3"	4.2" / 10.4"	4.3" / 10.7"	4.4" / 10.9"	4.4" / 11"
	14"	Span	ALL	20' - 10"	19' - 4"	19' - 0"	18' - 4"	18' - 1"	17' - 10"	17' - 4"	17' - 1"	16' - 9"
		Bearing		4.2" / 10.4"	4.5" / 11.3"	4.6" / 11.4"	4.8" / 11.9"	4.8" / 12"	4.9" / 12.2"	5" / 12.5"	5.1" / 12.7"	5.2" / 13"
	16"	Span	ALL	23' - 7"	21' - 11"	21' - 7"	20' - 9"	20' - 6"	20' - 3"	19' - 8"	19' - 4"	19' - 0"
		Bearing		4.8" / 11.9"	5.1" / 12.8"	5.2" / 13"	5.4" / 13.5"	5.5" / 13.6"	5.6" / 13.8"	5.7" / 14.2"	5.8" / 14.5"	5.9" / 14.7"
	18"	Span	ALL	26' - 4"	24' - 5"	24' - 1"	23' - 2"	22' - 10"	22' - 7"	21' - 11"	21' - 7"	21' - 3"
		Bearing		5.3" / 13.3"	5.7" / 14.3"	5.8" / 14.5"	6.1" / 15.1"	6.1" / 15.3"	6.2" / 15.4"	6.4" / 15.9"	6.5" / 16.2"	6.6" / 16.4"
	20"	Span	ALL	29' - 1"	26' - 11"	26' - 7"	25' - 7"	25' - 3"	24' - 11"	24' - 3"	23' - 10"	23' - 5"
		Bearing		5.9" / 14.6"	6.3" / 15.8"	6.4" / 16"	6.7" / 16.6"	6.8" / 16.9"	6.9" / 17.1"	7.1" / 17.6"	7.2" / 17.9"	7.3" / 18.1"
	22"	Span	ALL	31' - 9"	29' - 5"	29' - 1"	27' - 11"	27' - 7"	27' - 3"	26' - 6"	26' - 0"	25' - 7"
		Bearing		6.4" / 16"	6.9" / 17.3"	7" / 17.5"	7.3" / 18.2"	7.4" / 18.4"	7.5" / 18.7"	7.7" / 19.2"	7.8" / 19.5"	8" / 19.9"
	24"	Span	ALL	34' - 5"	31' - 11"	31' - 6"	30' - 4"	29' - 11"	29' - 7"	28' - 9"	28' - 3"	27' - 9"
		Bearing		7" / 17.4"	7.5" / 18.8"	7.6" / 19"	7.9" / 19.8"	8" / 20"	8.1" / 20.3"	8.4" / 20.9"	8.5" / 21.2"	8.7" / 21.6"



1-1/2" Stora Enso S-LVL Marriage Roof Ridge Beam

Simple or Two Span Condition (Enhanced Performance — Non-Snow and Snow Load Deflection = Span/240)

Roof Load (PSF)	Beam Depth	Span and Bearing	Wind Zone	Unit Width								
				10'-0"	11'-8"	12'-0"	13'-0"	13'-4"	13'-8"	14'-6"	15'-0"	15'-6"
Non-Snow Area, 1.25 Duration of Load, 20 Roof Live Load + 10 Roof Dead Load	7 1/4"	Span	ALL	10' - 8"	10' - 1"	10' - 0"	9' - 9"	9' - 8"	9' - 7"	9' - 5"	9' - 3"	9' - 2"
		Bearing		1.6" / 3.8"	1.7" / 4.2"	1.7" / 4.3"	1.8" / 4.5"	1.9" / 4.6"	1.9" / 4.7"	2" / 4.9"	2" / 5"	2.1" / 5.1"
	9 1/4"	Span	ALL	13' - 7"	12' - 11"	12' - 10"	12' - 6"	12' - 4"	12' - 3"	12' - 0"	11' - 10"	11' - 9"
		Bearing		2" / 4.9"	2.2" / 5.4"	2.2" / 5.5"	2.3" / 5.8"	2.4" / 5.9"	2.4" / 6"	2.5" / 6.2"	2.6" / 6.3"	2.6" / 6.5"
	9 1/2"	Span	ALL	14' - 0"	13' - 3"	13' - 2"	12' - 10"	12' - 8"	12' - 7"	12' - 4"	12' - 2"	12' - 1"
		Bearing		2" / 5"	2.2" / 5.5"	2.3" / 5.6"	2.4" / 5.9"	2.4" / 6"	2.5" / 6.1"	2.6" / 6.4"	2.6" / 6.5"	2.7" / 6.6"
	11 1/4"	Span	ALL	16' - 7"	15' - 9"	15' - 7"	15' - 2"	15' - 1"	14' - 11"	14' - 7"	14' - 5"	14' - 4"
		Bearing		2.4" / 5.9"	2.7" / 6.6"	2.7" / 6.7"	2.8" / 7"	2.9" / 7.1"	2.9" / 7.3"	3" / 7.5"	3.1" / 7.7"	3.2" / 7.9"
	11 7/8"	Span	ALL	17' - 6"	16' - 8"	16' - 6"	16' - 0"	15' - 11"	15' - 9"	15' - 5"	15' - 3"	15' - 1"
		Bearing		2.5" / 6.3"	2.8" / 6.9"	2.8" / 7"	3" / 7.4"	3" / 7.5"	3.1" / 7.7"	3.2" / 8"	3.3" / 8.1"	3.4" / 8.3"
	14"	Span	ALL	20' - 8"	19' - 8"	19' - 5"	18' - 11"	18' - 9"	18' - 7"	18' - 3"	18' - 0"	17' - 10"
		Bearing		3" / 7.4"	3.3" / 8.2"	3.4" / 8.3"	3.5" / 8.8"	3.6" / 8.9"	3.7" / 9.1"	3.8" / 9.4"	3.9" / 9.6"	4" / 9.8"
	16"	Span	ALL	23' - 8"	22' - 6"	22' - 3"	21' - 8"	21' - 6"	21' - 3"	20' - 10"	20' - 7"	20' - 5"
		Bearing		3.4" / 8.5"	3.8" / 9.4"	3.8" / 9.5"	4" / 10"	4.1" / 10.2"	4.2" / 10.4"	4.3" / 10.8"	4.4" / 11"	4.5" / 11.2"
	18"	Span	ALL	26' - 8"	25' - 4"	25' - 1"	24' - 5"	24' - 2"	24' - 0"	23' - 6"	23' - 3"	23' - 0"
		Bearing		3.9" / 9.6"	4.3" / 10.6"	4.3" / 10.8"	4.6" / 11.3"	4.6" / 11.5"	4.7" / 11.7"	4.9" / 12.1"	5" / 12.4"	5.1" / 12.7"
20"	Span	ALL	29' - 8"	28' - 2"	27' - 10"	27' - 1"	26' - 11"	26' - 8"	26' - 1"	25' - 10"	25' - 6"	
	Bearing		4.3" / 10.7"	4.7" / 11.8"	4.8" / 12"	5.1" / 12.6"	5.2" / 12.8"	5.2" / 13"	5.4" / 13.5"	5.6" / 13.8"	5.7" / 14.1"	
22"	Span	ALL	32' - 8"	31' - 0"	30' - 8"	29' - 10"	29' - 7"	29' - 4"	28' - 9"	28' - 5"	28' - 1"	
	Bearing		4.7" / 11.8"	5.2" / 13"	5.3" / 13.2"	5.6" / 13.9"	5.7" / 14.1"	5.8" / 14.3"	6" / 14.9"	6.1" / 15.2"	6.2" / 15.5"	
24"	Span	ALL	35' - 9"	33' - 10"	33' - 6"	32' - 7"	32' - 4"	32' - 1"	31' - 5"	31' - 1"	30' - 8"	
	Bearing		5.2" / 12.9"	5.7" / 14.2"	5.8" / 14.5"	6.1" / 15.2"	6.2" / 15.4"	6.3" / 15.7"	6.5" / 16.3"	6.7" / 16.6"	6.8" / 17"	
Snow Area, 1.15 Duration of Load, 30 Snow Load + 10 Roof Dead Load	7 1/4"	Span	ALL	10' - 8"	10' - 1"	10' - 0"	9' - 9"	9' - 8"	9' - 7"	9' - 5"	9' - 3"	9' - 2"
		Bearing		1.8" / 4.4"	2" / 4.9"	2" / 5"	2.1" / 5.2"	2.2" / 5.3"	2.2" / 5.4"	2.3" / 5.6"	2.3" / 5.8"	2.4" / 5.9"
	9 1/4"	Span	ALL	13' - 7"	12' - 11"	12' - 10"	12' - 6"	12' - 4"	12' - 3"	12' - 0"	11' - 10"	11' - 9"
		Bearing		2.3" / 5.6"	2.5" / 6.2"	2.6" / 6.3"	2.7" / 6.7"	2.7" / 6.8"	2.8" / 6.9"	2.9" / 7.2"	3" / 7.3"	3" / 7.5"
	9 1/2"	Span	ALL	14' - 0"	13' - 3"	13' - 2"	12' - 10"	12' - 8"	12' - 7"	12' - 4"	12' - 2"	12' - 1"
		Bearing		2.3" / 5.8"	2.6" / 6.4"	2.6" / 6.5"	2.8" / 6.9"	2.8" / 7"	2.9" / 7.1"	3" / 7.4"	3" / 7.5"	3.1" / 7.7"
	11 1/4"	Span	ALL	16' - 7"	15' - 9"	15' - 7"	15' - 2"	15' - 1"	14' - 11"	14' - 7"	14' - 5"	14' - 4"
		Bearing		2.8" / 6.9"	3.1" / 7.6"	3.1" / 7.7"	3.3" / 8.1"	3.3" / 8.3"	3.4" / 8.4"	3.5" / 8.7"	3.6" / 8.9"	3.7" / 9.1"
	11 7/8"	Span	ALL	17' - 6"	16' - 8"	16' - 6"	16' - 0"	15' - 11"	15' - 9"	15' - 5"	15' - 3"	15' - 1"
		Bearing		2.9" / 7.3"	3.2" / 8"	3.3" / 8.2"	3.5" / 8.6"	3.5" / 8.7"	3.6" / 8.9"	3.7" / 9.2"	3.8" / 9.4"	3.9" / 9.6"
	14"	Span	ALL	20' - 8"	19' - 8"	19' - 5"	18' - 11"	18' - 9"	18' - 7"	18' - 3"	18' - 0"	17' - 10"
		Bearing		3.5" / 8.6"	3.8" / 9.5"	3.9" / 9.6"	4.1" / 10.1"	4.2" / 10.3"	4.2" / 10.5"	4.4" / 10.9"	4.5" / 11.1"	4.6" / 11.4"
	16"	Span	ALL	23' - 8"	22' - 6"	22' - 3"	21' - 8"	21' - 6"	21' - 3"	20' - 10"	20' - 7"	20' - 5"
		Bearing		4" / 9.8"	4.4" / 10.8"	4.4" / 11"	4.7" / 11.6"	4.8" / 11.8"	4.8" / 12"	5" / 12.5"	5.1" / 12.7"	5.2" / 13"
	18"	Span	ALL	26' - 8"	25' - 4"	25' - 1"	24' - 5"	24' - 2"	24' - 0"	23' - 6"	23' - 3"	23' - 0"
		Bearing		4.5" / 11.1"	4.9" / 12.2"	5" / 12.4"	5.3" / 13.1"	5.4" / 13.3"	5.4" / 13.5"	5.6" / 14"	5.8" / 14.4"	5.9" / 14.7"
20"	Span	ALL	29' - 8"	28' - 2"	27' - 10"	27' - 1"	26' - 11"	26' - 8"	26' - 1"	25' - 10"	25' - 6"	
	Bearing		5" / 12.3"	5.5" / 13.6"	5.6" / 13.8"	5.9" / 14.6"	6" / 14.8"	6" / 15"	6.3" / 15.6"	6.4" / 16"	6.5" / 16.3"	
22"	Span	ALL	32' - 8"	31' - 0"	30' - 8"	29' - 10"	29' - 7"	29' - 4"	28' - 9"	28' - 5"	28' - 1"	
	Bearing		5.5" / 13.6"	6" / 15"	6.1" / 15.3"	6.5" / 16.1"	6.6" / 16.3"	6.7" / 16.6"	6.9" / 17.2"	7" / 17.5"	7.2" / 17.8"	
24"	Span	ALL	35' - 9"	33' - 10"	33' - 6"	32' - 7"	32' - 4"	32' - 1"	31' - 5"	31' - 1"	30' - 8"	
	Bearing		6" / 14.9"	6.6" / 16.4"	6.7" / 16.7"	7.1" / 17.6"	7.2" / 17.8"	7.3" / 18.1"	7.5" / 18.7"	7.6" / 19"	7.8" / 19.3"	
Snow Area, 1.15 Duration of Load, 40 Snow Load + 10 Roof Dead Load	7 1/4"	Span	ALL	10' - 0"	9' - 6"	9' - 5"	9' - 2"	9' - 1"	9' - 0"	8' - 10"	8' - 9"	8' - 7"
		Bearing		2" / 5"	2.2" / 5.5"	2.3" / 5.6"	2.4" / 5.9"	2.4" / 6"	2.5" / 6.1"	2.6" / 6.4"	2.6" / 6.5"	2.7" / 6.7"
	9 1/4"	Span	ALL	12' - 9"	12' - 1"	12' - 0"	11' - 8"	11' - 7"	11' - 6"	11' - 3"	11' - 1"	11' - 0"
		Bearing		2.6" / 6.4"	2.9" / 7.1"	2.9" / 7.2"	3.1" / 7.6"	3.1" / 7.7"	3.2" / 7.8"	3.3" / 8.1"	3.4" / 8.3"	3.4" / 8.5"
	9 1/2"	Span	ALL	13' - 1"	12' - 5"	12' - 4"	12' - 0"	11' - 11"	11' - 9"	11' - 7"	11' - 5"	11' - 4"
		Bearing		2.7" / 6.6"	2.9" / 7.2"	3" / 7.4"	3.1" / 7.8"	3.2" / 7.9"	3.2" / 8"	3.4" / 8.4"	3.4" / 8.5"	3.5" / 8.7"
	11 1/4"	Span	ALL	15' - 6"	14' - 9"	14' - 7"	14' - 2"	14' - 1"	14' - 0"	13' - 8"	13' - 6"	13' - 5"
		Bearing		3.1" / 7.8"	3.5" / 8.6"	3.5" / 8.7"	3.7" / 9.2"	3.8" / 9.4"	3.8" / 9.5"	4" / 9.9"	4.1" / 10.1"	4.2" / 10.3"
	11 7/8"	Span	ALL	16' - 4"	15' - 7"	15' - 5"	15' - 0"	14' - 10"	14' - 9"	14' - 5"	14' - 4"	14' - 2"
		Bearing		3.3" / 8.2"	3.7" / 9.1"	3.7" / 9.2"	3.9" / 9.7"	4" / 9.9"	4.1" / 10.1"	4.2" / 10.5"	4.3" / 10.7"	4.4" / 10.9"
	14"	Span	ALL	19' - 4"	18' - 4"	18' - 2"	17' - 8"	17' - 6"	17' - 5"	17' - 1"	16' - 10"	16' - 8"
		Bearing		3.9" / 9.7"	4.3" / 10.7"	4.4" / 10.9"	4.6" / 11.5"	4.7" / 11.7"	4.8" / 11.9"	5" / 12.3"	5.1" / 12.6"	5.2" / 12.9"
	16"	Span	ALL	22' - 1"	21' - 0"	20' - 9"	20' - 3"	20' - 1"	19' - 11"	19' - 6"	19' - 3"	19' - 0"
		Bearing		4.5" / 11.1"	4.9" / 12.2"	5" / 12.5"	5.3" / 13.1"	5.4" / 13.4"	5.5" / 13.6"	5.7" / 14.1"	5.8" / 14.4"	5.9" / 14.7"
	18"	Span	ALL	24' - 10"	23' - 7"	23' - 4"	22' - 9"	22' - 7"	22' - 4"	21' - 11"	21' - 7"	21' - 3"
		Bearing		5" / 12.5"	5.6" / 13.8"	5.7" / 14.1"	6" / 14.8"	6" / 15"	6.1" / 15.3"	6.4" / 15.9"	6.5" / 16.2"	6.6" / 16.4"
20"	Span	ALL	27' - 7"	26' - 3"	26' - 0"	25' - 3"	25' - 1"	24' - 10"	24' - 3"	23' - 10"	23' - 5"	
	Bearing		5.6" / 13.9"	6.2" / 15.4"	6.3" / 15.6"	6.6" / 16.5"	6.7" / 16.7"	6.8" / 17"	7.1" / 17.6"	7.2" / 17.9"	7.3" / 18.1"	
22"	Span	ALL	30' - 4"	28' - 10"	28' - 7"	27' - 10"	27' - 7"	27' - 3"	26' - 6"	26' - 0"	25' - 7"	
	Bearing		6.2" / 15.3"	6.8" / 16.9"	6.9" / 17.2"	7.3" / 18.1"	7.4" / 18.4"	7.5" / 18.7"	7.7" / 19.2"	7.8" / 19.5"	8" / 19.9"	
24"	Span	ALL	33' - 1"	31' - 6"	31' - 2"	30' - 4"	29' - 11"	29' - 7"	28' - 9"	28' - 3"	27' - 9"	
	Bearing		6.7" / 16.8"	7.4" / 18.5"	7.6" / 18.8"	7.9" / 19.8"	8" / 20"	8.1" / 20.3"	8.4" / 20.9"	8.5" / 21.2"	8.7" / 21.6"	

11. Storage and Handling

LVL products must be handled and stored properly and carefully. Incorrect handling and storing may cause defects on product's surfaces, edges or corners. Furthermore, the dimensional stability of the product may suffer.

Transportation

While transporting or storing the product, increased moisture caused by rain or splashing must be avoided. If LVL products are moved with a forklift, wide enough forks must be used in order to avoid damaging the product. When lifting several packs at a time, the distance between forks must be wide enough to ensure safe lifting.

Unloading

LVL packages are to be handled with forklift or crane by using web slings. Web slings used must be of proper condition and strength. Use of chains or wires is forbidden. Incorrect

handling may damage surface or edges, also dimensional stability of the product may suffer. Do not drop packages from trucks or push with the fork tips. When handled with forklift proper stability has to be considered. Distance of the forks must be wide enough for safe lifting.

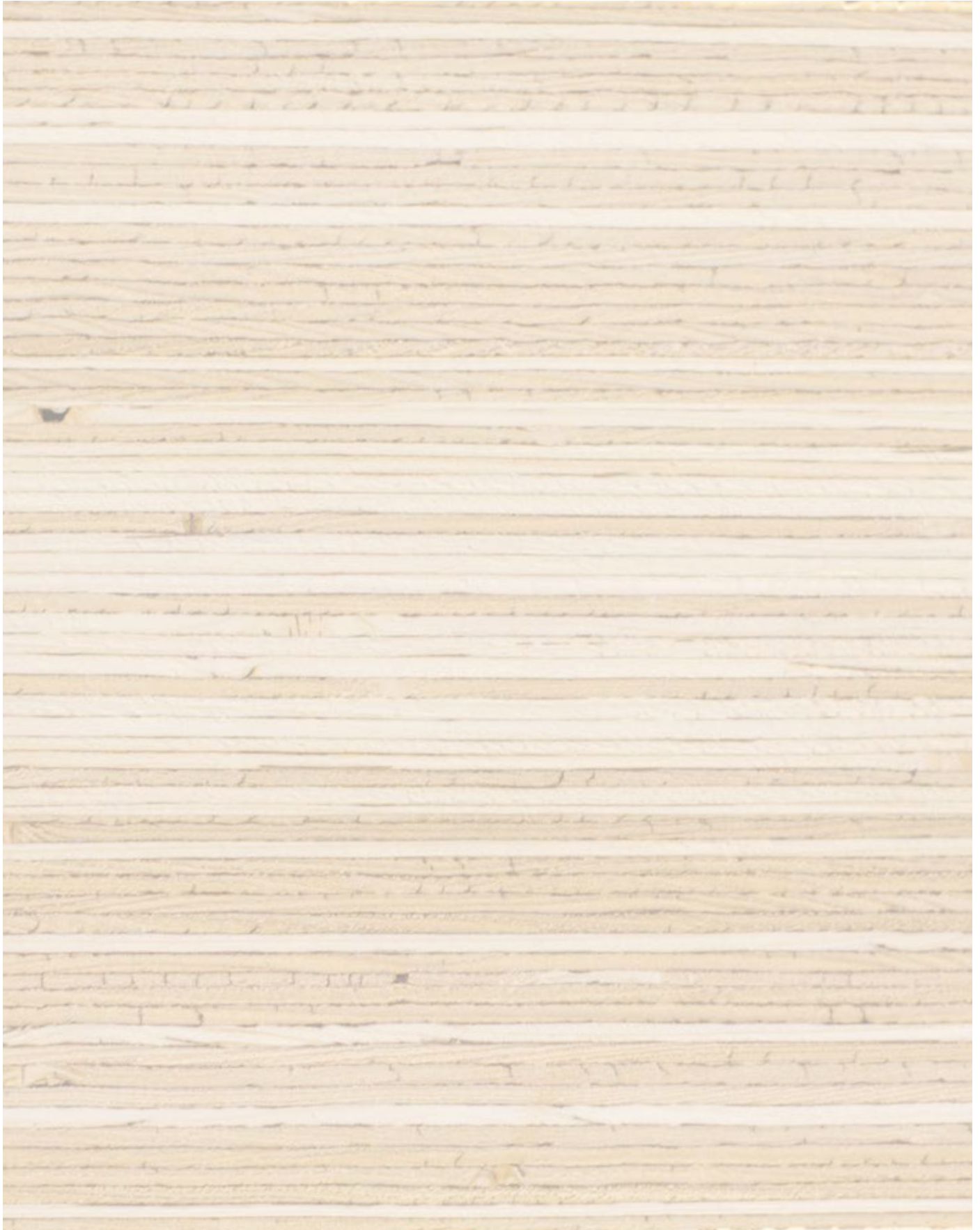
Storing

Packages have to be stored weather protected under cover. Place the packages on wooden skids at least 1 ft. off the ground on a flat and dry surface. The skids must be of suitable size, amount and have to be spread evenly to prevent products from twisting and warping.

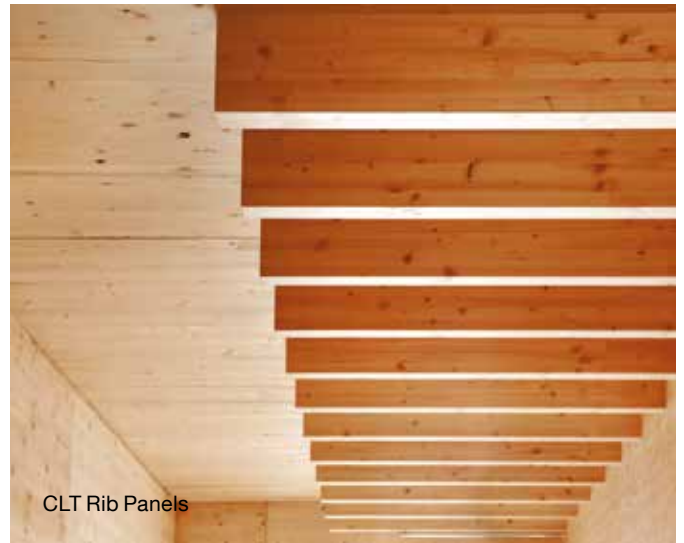
In storing packages over a week, cut plastic open from bottom corner to enable air circulation.



NOTES



12. Other Products





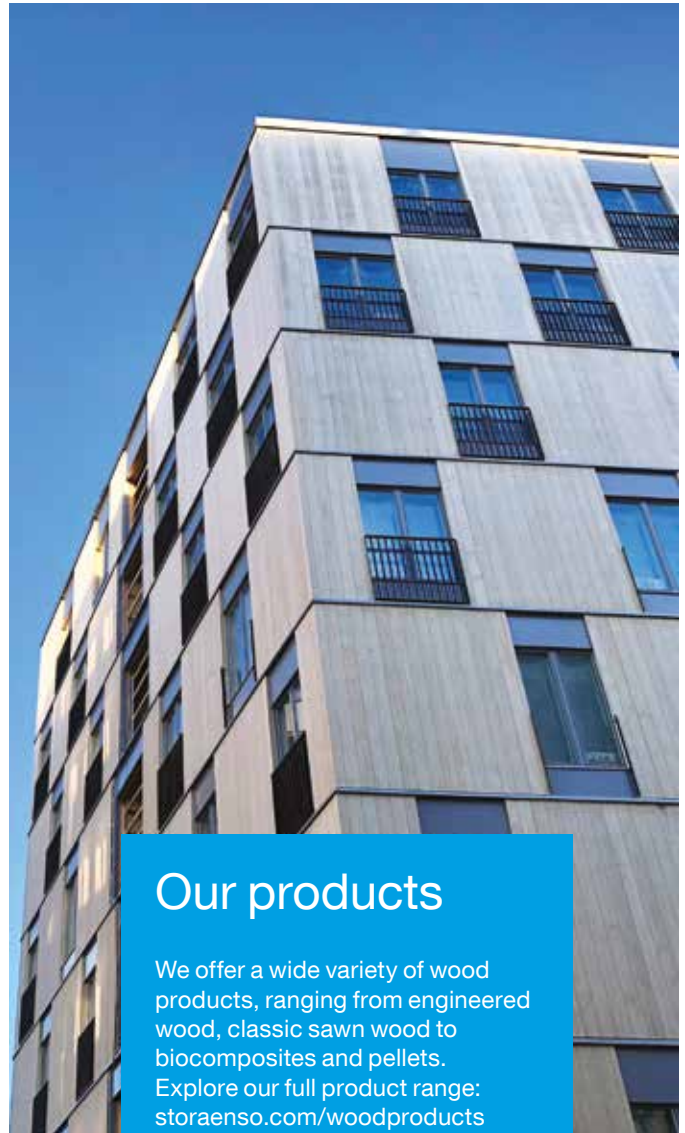
Structural Lumber



Cross Laminated Timber (CLT)



CLT Rib Panels



Our products

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