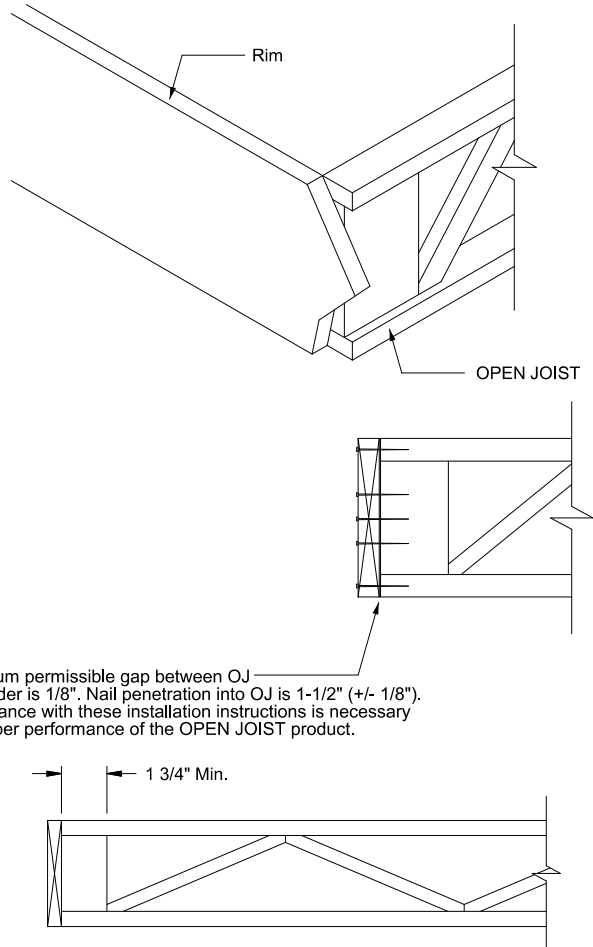
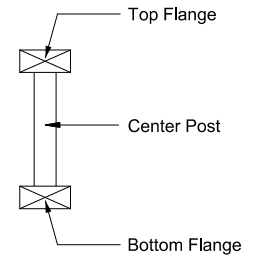


Job No. 39673 Dwg. No. D922002 END NAIL CONNECTION CALCULATIONS - OPEN JOIST



Maximum permissible gap between OJ and girder is 1/8". Nail penetration into OJ is 1-1/2" (+/- 1/8"). Compliance with these installation instructions is necessary for proper performance of the OPEN JOIST product.



Nail Specs	Beam S.G.	Nail Value	Quantity Nails			Max. Reaction (lb.)		
			Top Flg.	Center Pst.	Bottom Flg.	Normal	15%	60%
.131" x 3"	0.42	74.62	3	6	3	746	858	1073
.131" x 3"	0.42	74.62	3	5	3	672	772	1073
.131" x 3"	0.42	74.62	3	4	3	597	687	955
.131" x 3"	0.42	74.62	2	6	2	647	744	993
.131" x 3"	0.42	74.62	2	5	2	572	658	915
.131" x 3"	0.42	74.62	2	4	2	497	572	796
.131" x 3"	0.42	74.62	2	3	2	423	486	677
.148" x 3"	0.42	84.30	3	6	3	843	969	1104
.148" x 3"	0.42	84.30	3	5	3	759	873	1104
.148" x 3"	0.42	84.30	3	4	3	674	776	1079
.148" x 3"	0.42	84.30	2	6	2	731	840	1014
.148" x 3"	0.42	84.30	2	5	2	646	743	1014
.148" x 3"	0.42	84.30	2	4	2	562	646	899
.148" x 3"	0.42	84.30	2	3	2	478	549	764
.131" x 3"	0.50	80.45	3	6	3	805	925	1091
.131" x 3"	0.50	80.45	3	5	3	724	833	1091
.131" x 3"	0.50	80.45	3	4	3	644	740	1030
.131" x 3"	0.50	80.45	2	6	2	697	802	1006
.131" x 3"	0.50	80.45	2	5	2	617	709	987
.131" x 3"	0.50	80.45	2	4	2	536	617	858
.131" x 3"	0.50	80.45	2	3	2	456	524	729
.148" x 3"	0.50	90.89	3	6	3	909	1043	1125
.148" x 3"	0.50	90.89	3	5	3	818	941	1125
.148" x 3"	0.50	90.89	3	4	3	727	836	1125
.148" x 3"	0.50	90.89	2	6	2	788	906	1028
.148" x 3"	0.50	90.89	2	5	2	697	801	1028
.148" x 3"	0.50	90.89	2	4	2	606	697	970
.148" x 3"	0.50	90.89	2	3	2	515	592	824

- Notes:
- 1) S.G. = Specific Gravity (SPF = 0.42, TimberStrand = 0.50, Microllam = 0.50)
 - 2) Normal = Normal load duration Cd = 1.00
 - 3) 15% = 2 month load duration Cd = 1.15
 - 4) 60% = 10 minute load duration Cd = 1.60
 - 5) Nails shall be placed to prevent splitting. If splitting does occur, find an acceptable alternative in this chart or contact Universal Forest Products.
 - 6) Common wire nails shall conform to ASTM F1667 and Fyb=90ksi.
 - 7) Refer to ESR-1035 for more Open Joist details

WARNING - Verify design parameters and READ NOTES

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling, Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719