



envirobeam LVL Design Guide

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Scope of this Publication

This Design Guide and Load Tables assist in the selection of Auswood envirobeam LVL for the most common structural arrangements met in Class 1 and Class 10 conventionally timber-framed buildings applicable to single and two-storey constructions with the following limitations:

- The building's shape shall be essentially rectangular, square, L-shaped, or a combination of rectangular elements.
- Maximum width of a building shall be 16 m excluding eaves
- Maximum wall height shall be 3 m
- Maximum roof pitch shall be 35 degrees
- Roof construction shall be hip, gable, skillion, cathedral, trussed or pitched, or any combination of these

While specific details are given on installation practices, the methods of providing adequate support, adequate anchorage against wind uplift and overall structural stability are outside the scope of this publication. Information on these topics can be obtained from AS 1684 or from a structural engineer experienced in timber construction.

All load tables in this document are designed using tested properties for AUSWOOD envirobeam LVL. Other manufacturer's LVL beams may have different properties and, therefore, cannot be designed using these load tables.

Copyright

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Compliance with The National Construction Code

The National Construction Code Performance Requirement H1P1- *Structural reliability and resistance* are satisfied for Auswood envirobeam LVL's as they have been designed and constructed in accordance with AS 1720.1 - Design of timber structures.

The characteristic properties have been established in accordance with AS 1720.1, Clause 1.3.1 (h) *Other timber products or grades*. For more information on how AUSWOOD envirobeam LVL complies with the National Construction Code, refer to AUSWOOD envirobeam LVL's Product Technical Statement. AUSWOOD envirobeam LVL's Product Technical Statement also contains limits on the application AUSWOOD envirobeam LVL. The Product Technical Statement is available upon request from the AUSWOOD tech support helpline at 1800 888 986 or at <https://auswood.spanman.net>.

The Span Table contained in the guide has been prepared by Spanware Pty Ltd. The Span Tables are certified in accordance with the NCC's Evidence of Suitability by a professional engineer. Refer to the attached letter.



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Geotechnical Engineers

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CERTIFICATE OF COMPLIANCE

TGA Engineers (TGA) are consulting structural engineers with extensive experience in timber design and production of span tables.

Based on our experience and detailed review of the span tables produced within Spanman software by Spanware Pty Ltd for Auswood International Pty Ltd (AUSWOOD), TGA certify the methodology, process and tables are in accordance with the relevant Australian standards and National Construction Code of Australia.

TGA can confirm the design methodology is in accordance with AS 1720.1: 2010 *Timber structures – Design methods*, and AS 1720.3: 2016 *Timber structures – Design criteria for timber-framed residential buildings*.

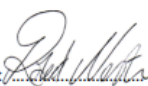
AS 1720.3: 2016 provides a prescriptive approach to standard design scenarios typically encountered in residential construction. Situations outside these scenarios will need to be specifically designed by a qualified professional structural engineer.

AUSWOOD has provided design properties for each Envirobeam LVL and Envirojoist I-joist systems. These characteristic properties have been established through the appropriate Australian standards AS/NZS 4357 for evaluation of LVL characteristic properties.

Therefore, the AUSWOOD Envirobeam LVL and Envirojoist I-beam systems, based on the span tables, can be installed as per AS 1684.2.

References:

AS 1170.0: 2002 *Structural design actions – General principles*
AS 1170.1: 2002 *Structural design actions – Permanent, imposed and other actions*
AS 1170.2: 2021 *Structural design actions – Wind actions*
AS 1684.2: 2021 *Residential timber-framed construction – Non-cyclonic areas*
AS 1684.4: 2010 *Residential timber-framed construction – Simplified – Non-cyclonic areas*
AS 1720.1: 2010 *Timber structures – Design methods*
AS 1720.3: 2016 *Timber structures – Design criteria for timber-framed residential buildings*
AS/NZS 4357.0:2005 *Structural laminated veneer lumber - Specifications*
AS/NZS 4357.1:2005 *Structural laminated veneer lumber – Method of test for measurement of dimensions and shape*
AS/NZS 4357.2:2006 *Structural Laminated veneer lumber – Determination of structural properties-test methods*

Signed: 
Robert A Nestic B. Eng.
RPE Reg. No. PE0013419



AUSWOOD envirobeam LVL

- AUSWOOD has Chain of Custody certification for purchasing, warehousing and selling of FSC 100% Wood panel and Engineered wood products.
- AUSWOOD International Pty Ltd warrants that AUSWOOD envirobeam LVL, are considered fit-for-purpose for use in accordance with the National Construction Code, Building Code of Australia, for the design life of the structure when stored, handled, designed, specified, installed and maintained as stated herein and in any other applicable instructions or requirements issued by AUSWOOD as at the date of purchase.
- AUSWOOD has experienced sales, manufacturing, design, technical and construction teams available to assist in the design, specification and construction of mass timber projects teams from initial project concept to the development of detailed designs, manufacture and construction.

General Information - Floor Performance

- These tables are designed to be used for Class 1 and 10 buildings - residential housing only. For other applications, refer to Spanman Software, linked below and AUSWOOD Technical Staff.
 - <https://auswood.spanman.net>

Design Information

Material Grades

E12

E13

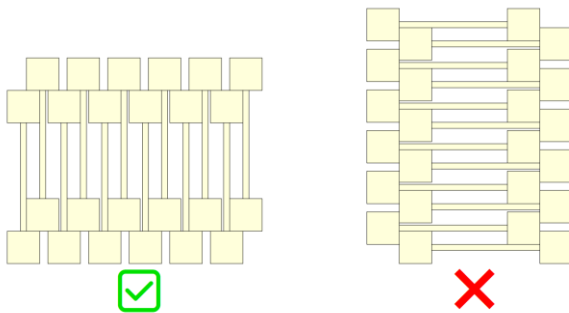
Sizes

Product	Grade	Width	Height
95x45-E12	E12	45	95
95x63-E12	E12	63	95
150x45-E12	E12	45	150
200x45-E12	E12	45	200
240x45-E12	E12	45	240
150x75-E12	E12	75	150
200x63-E12	E12	63	200
300x45-E12	E12	45	300
300x63-E12	E12	63	300
95x45-E13	E13	45	95
95x63-E13	E13	63	95
150x45-E13	E13	45	150
200x45-E13	E13	45	200
240x45-E13	E13	45	240
150x75-E13	E13	75	150
200x63-E13	E13	63	200
300x45-E13	E13	45	300
300x63-E13	E13	63	300

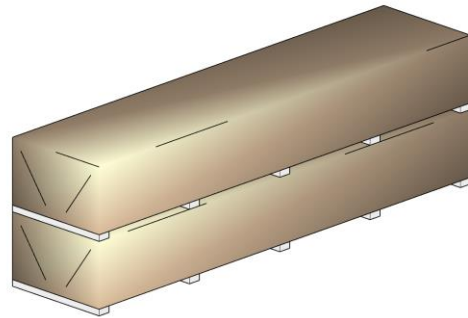
Handling & Storage

- Store AUSWOOD Products on a hard, dry surface
- If the surface isn't paved, the ground should be covered with a polyethene film
- Keep covered with waterproof material that allows bundles to breathe
- Use bearers between the ground and the first bundle (4m max spacing)
- Use bearers at the same spacing between bundles
- Take care to re-wrap the remaining material after opening the bundles
- Wetting due to incorrect storage can cause dimensional changes and a reduction in characteristic strength. Keep AUSWOOD Products dry!
- Under no circumstances are stored I-Joists to be in contact with the ground.

- AUSWOOD Products should be stacked in the upright position to avoid damage during handling or storage



Correctly and incorrectly stacked Auswood Products

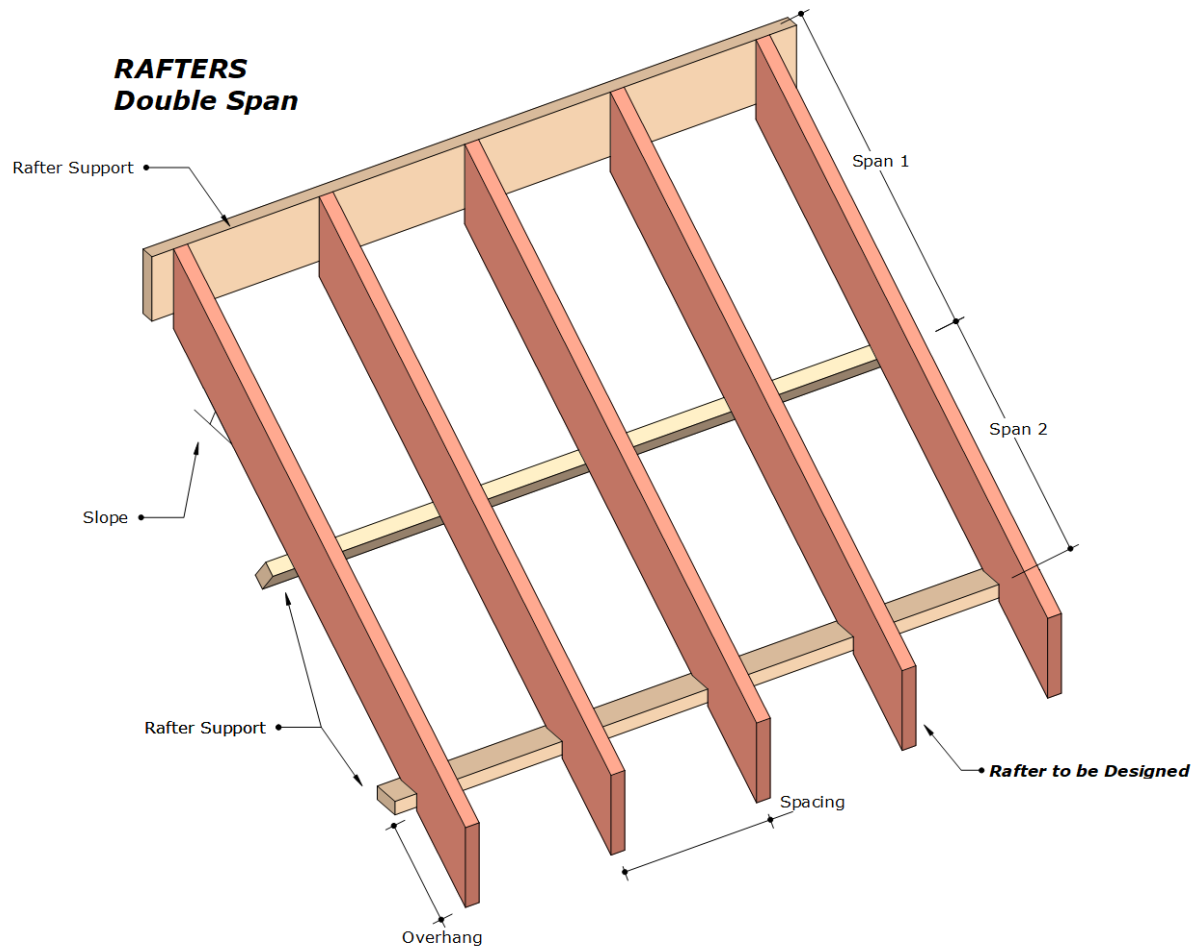


Fully wrapped and correctly stacked bundles

Moisture & Durability

- AUSWOOD Products are to be used in dry interior environments only, fully enclosed from exposure to exterior moisture. AUSWOOD Products are suitable for subfloor applications, provided that the subfloor space is ventilated as per the NCC requirements.
- AUSWOOD Products must not be exposed to environments where the equilibrium moisture content of the joist will exceed 18%.
- Detailing such as cladding or lining must be used in moisture-laden environments and constructed in a way as to prevent exposure of the AUSWOOD Product to moisture.
- AUSWOOD Products must be sufficiently enclosed with a suitable cladding, lining to completely prevent the exposure of the AUSWOOD Product to moisture.
- Wetting due to incorrect storage can cause dimensional changes and a reduction in characteristic strength. Keep the AUSWOOD Products dry!

Rafter Double Span - Domestic Roof



Rafter Double Span Domestic Roof	
Roof Slope deg:	0-35
Snow Load:	None

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
		Wind Category:	N1		N2		N1		N2		N1		N2		N1		N2	
		Permanent Load (kg/m2):																
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		3057	3035	3057	3035	3057	2772	3057	2772	3057	2435	3057	2435	2877	2218	2877	2218
95x63-E12	3.82		3617	3366	3617	3366	3617	3081	3617	3081	3489	2712	3489	2712	3196	2474	3196	2474
150x45-E12	4.3		5687	4734	5687	4734	5515	4337	5515	4337	4904	3821	4904	3821	4496	3486	4496	3486
150x75-E12	7.17		6586	5496	6586	5496	6245	5059	6245	5059	5680	4479	5680	4479	5236	4098	5236	4098
200x45-E12	5.74		7300	6183	7300	6183	6902	5735	6902	5735	6343	5066	6343	5066	5941	4628	5941	4628
200x63-E12	8.03		7757	6643	7757	6643	7367	6249	7367	6249	6806	5617	6806	5617	6409	5143	6409	5143
240x45-E12	6.89		8270	7045	8270	7045	7838	6618	7838	6618	7222	6039	7222	6039	6791	5535	6791	5535
300x45-E12	8.61		9613	8253	9613	8253	9139	7669	9139	7669	8453	6804	8453	6804	7931	6209	7931	6209
300x63-E12	12.05		10139	8824	10139	8824	9691	8336	9691	8336	9023	7653	9023	7653	8536	7182	8536	7182
95x45-E13	2.73		3181	3117	3181	3117	3181	2847	3181	2847	3181	2501	3181	2501	2955	2278	2955	2278
95x63-E13	3.82		3764	3458	3764	3458	3764	3165	3764	3165	3583	2785	3583	2785	3282	2540	3282	2540
150x45-E13	4.3		5840	4862	5840	4862	5665	4454	5665	4454	5036	3924	5036	3924	4618	3581	4618	3581
150x75-E13	7.17		6719	5645	6719	5645	6371	5196	6371	5196	5834	4601	5834	4601	5377	4209	5377	4209
200x45-E13	5.74		7448	6308	7448	6308	7041	5890	7041	5890	6471	5203	6471	5203	6076	4754	6076	4754
200x63-E13	8.03		7914	6777	7914	6777	7516	6375	7516	6375	6944	5769	6944	5769	6539	5282	6539	5282
240x45-E13	6.89		8438	7187	8438	7187	7996	6752	7996	6752	7368	6161	7368	6161	6929	5685	6929	5685
300x45-E13	8.61		9807	8420	9807	8420	9324	7868	9324	7868	8624	6968	8624	6968	8127	6347	8127	6347
300x63-E13	12.05		10344	9003	10344	9003	9887	8504	9887	8504	9206	7808	9206	7808	8709	7327	8709	7327

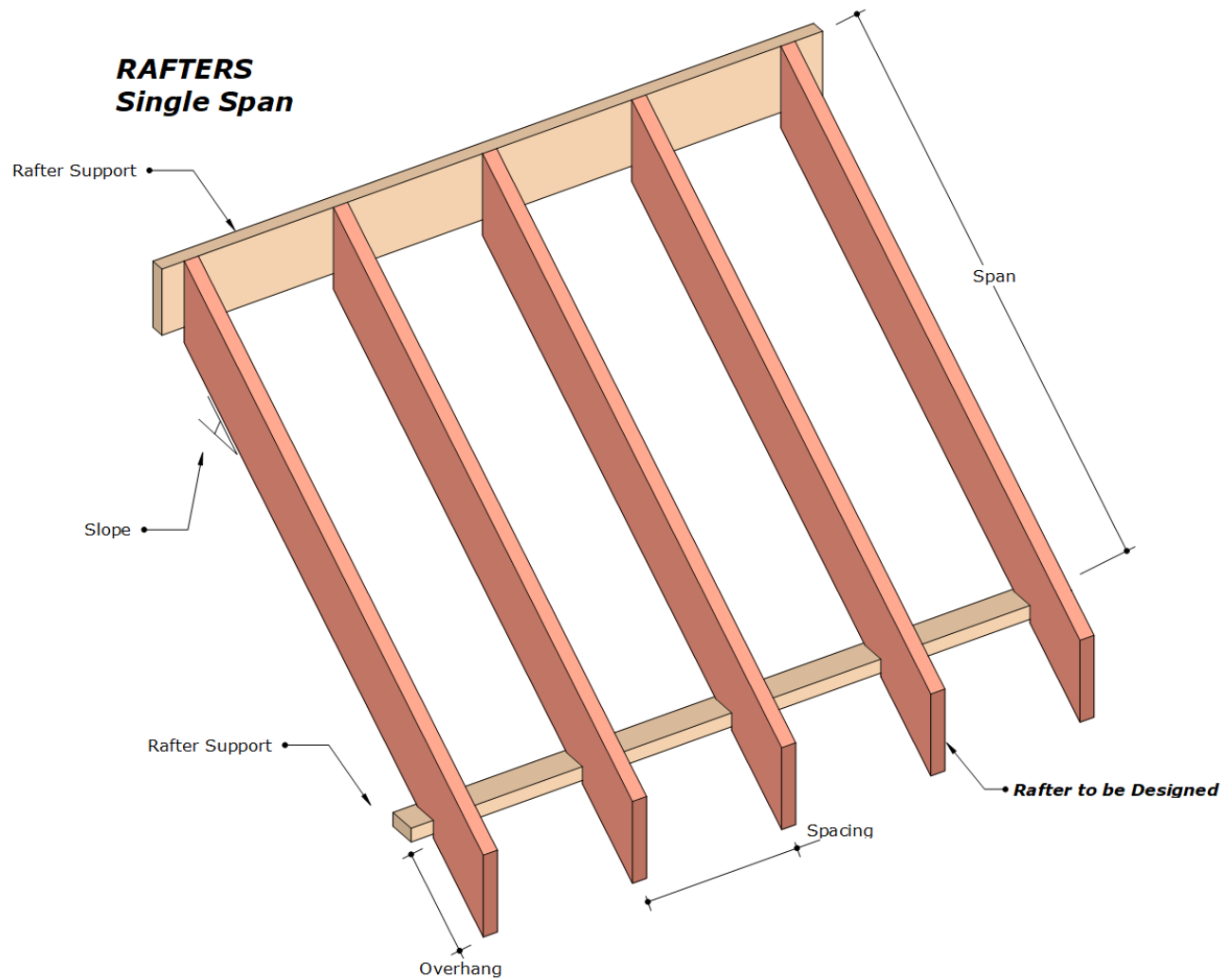
Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
		Wind Category:	N3		N4		N3		N4		N3		N4		N3		N4	
		Permanent Load (kg/m2):																
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		3057	3035	3057	3035	3057	2772	3057	2772	3057	2435	3057	2435	2877	2218	2722	2218
95x63-E12	3.82		3617	3366	3617	3366	3617	3081	3617	3081	3489	2712	3489	2712	3196	2474	3196	2474
150x45-E12	4.3		5687	4734	5687	4734	5515	4337	5515	4337	4904	3821	4787	3821	4496	3486	4215	3486
150x75-E12	7.17		6586	5496	6586	5496	6245	5059	6245	5059	5680	4479	5680	4479	5236	4098	5236	4098
200x45-E12	5.74		7300	6183	7300	6183	6902	5735	6902	5735	6343	5066	6083	5066	5941	4628	5249	4628
200x63-E12	8.03		7757	6643	7757	6643	7367	6249	7367	6249	6806	5617	6806	5617	6409	5143	6409	5143
240x45-E12	6.89		8270	7045	8270	7045	7838	6618	7752	6618	7222	6039	6752	6039	6715	5535	6064	5451
300x45-E12	8.61		9613	8253	9084	8253	9043	7669	8336	7616	8004	6804	7357	6700	7322	6209	6714	6083
300x63-E12	12.05		10139	8824	10139	8824	9691	8336	9691	8336	9023	7653	9023	7653	8536	7182	8536	7182
95x45-E13	2.73		3181	3117	3181	3117	3181	2847	3181	2847	3181	2501	3148	2501	2955	2278	2722	2278
95x63-E13	3.82		3764	3458	3764	3458	3764	3165	3764	3165	3583	2785	3583	2785	3282	2540	3227	2540
150x45-E13	4.3		5840	4862	5840	4862	5665	4454	5665	4454	5036	3924	4842	3924	4618	3581	4254	3581
150x75-E13	7.17		6719	5645	6719	5645	6371	5196	6371	5196	5834	4601	5834	4601	5377	4209	5377	4209
200x45-E13	5.74		7448	6308	7448	6308	7041	5890	7041	5890	6471	5203	6175	5203	6076	4754	5329	4754
200x63-E13	8.03		7914	6777	7914	6777	7516	6375	7516	6375	6944	5769	6944	5769	6539	5282	6539	5282
240x45-E13	6.89		8438	7187	8438	7187	7996	6752	7923	6752	7368	6161	6883	6161	6845	5685	6173	5539
300x45-E13	8.61		9807	8420	9320	8420	9277	7868	8552	7814	8212	6968	7547	6859	7511	6347	6874	6215
300x63-E13	12.05		10344	9003	10344	9003	9887	8504	9887	8504	9206	7808	9206	7808	8709	7327	8709	7327

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
		Wind Category:	N5		N6		N5		N6		N5		N6		N5		N6	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		3057	3035	3033	3035	3057	2772	2622	2762	2522	2435	2138	2251	2182	2218	1763	1948
95x63-E12	3.82		3617	3366	3597	3366	3617	3081	3108	3081	2989	2712	2532	2667	2585	2474	2191	2307
150x45-E12	4.3		5451	4734	4634	4734	4718	4337	4078	4337	3940	3821	3381	3561	3452	3486	2790	3080
150x75-E12	7.17		6586	5496	6244	5496	6245	5059	5386	5059	5177	4479	4380	4479	4471	4098	3785	3987
200x45-E12	5.74		6936	6183	5856	6068	5979	5735	5055	5426	4860	5000	4217	4608	4291	4447	3724	4091
200x63-E12	8.03		7757	6643	7646	6643	7367	6249	6591	6249	6335	5617	5357	5617	5469	5143	4629	4876
240x45-E12	6.89		7734	7045	6769	6682	6912	6478	5839	6021	5613	5578	4759	5164	4848	4993	4225	4612
300x45-E12	8.61		8318	7760	7714	7290	7615	7094	6894	6650	6626	6210	5601	5792	5719	5617	4839	5224
300x63-E12	12.05		10139	8824	10139	8824	9691	8336	9517	8336	9002	7653	7717	7653	7880	7182	6660	6855
95x45-E13	2.73		3181	3117	3033	3117	3096	2847	2622	2762	2522	2501	2138	2251	2182	2278	1763	1948
95x63-E13	3.82		3764	3458	3597	3458	3672	3165	3108	3165	2989	2785	2532	2667	2585	2540	2191	2307
150x45-E13	4.3		5516	4862	4680	4862	4765	4454	4116	4373	3976	3924	3381	3561	3452	3581	2790	3080
150x75-E13	7.17		6719	5645	6244	5645	6371	5196	5386	5196	5177	4601	4380	4601	4471	4209	3785	3987
200x45-E13	5.74		7041	6308	5944	6160	6070	5890	5131	5501	4934	5066	4265	4665	4341	4500	3729	4112
200x63-E13	8.03		7914	6777	7646	6777	7516	6375	6591	6375	6335	5769	5357	5645	5469	5282	4629	4876
240x45-E13	6.89		7905	7187	6890	6811	7036	6600	5944	6127	5714	5670	4834	5244	4935	5068	4280	4677
300x45-E13	8.61		8534	7961	7914	7478	7813	7273	7049	6807	6775	6347	5727	5912	5847	5730	4948	5322
300x63-E13	12.05		10344	9003	10344	9003	9887	8504	9631	8504	9154	7808	7810	7784	7974	7327	6740	6948

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
		Wind Category:	C1		C2		C1		C2		C1		C2		C1		C2	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		3057	3035	3057	3035	3057	2772	2956	2772	3028	2435	2408	2435	2618	2218	2083	2218
95x63-E12	3.82		3617	3366	3617	3366	3617	3081	3507	3081	3489	2712	2854	2712	3104	2474	2468	2474
150x45-E12	4.3		5687	4734	5206	4734	5515	4337	4533	4337	4629	3821	3783	3821	4073	3486	3296	3486
150x75-E12	7.17		6586	5496	6586	5496	6245	5059	6090	5059	5680	4479	4944	4479	5236	4098	4270	4098
200x45-E12	5.74		7300	6183	6624	6183	6902	5735	5710	5735	5851	5066	4667	4951	5049	4628	4126	4403
200x63-E12	8.03		7757	6643	7757	6643	7367	6249	7367	6249	6806	5617	6050	5617	6409	5143	5223	5143
240x45-E12	6.89		8270	7045	7665	7045	7726	6618	6601	6416	6735	5957	5360	5524	5833	5367	4662	4945
300x45-E12	8.61		9041	8027	8292	7687	8305	7405	7597	7031	7337	6562	6328	6155	6699	5980	5461	5567
300x63-E12	12.05		10139	8824	10139	8824	9691	8336	9691	8336	9023	7653	8732	7653	8536	7182	7525	7182
95x45-E13	2.73		3181	3117	3181	3117	3181	2847	2956	2847	3028	2501	2408	2501	2618	2278	2083	2244
95x63-E13	3.82		3764	3458	3764	3458	3764	3165	3507	3165	3583	2785	2854	2785	3104	2540	2468	2540
150x45-E13	4.3		5840	4862	5267	4862	5665	4454	4578	4454	4675	3924	3812	3924	4110	3581	3296	3551
150x75-E13	7.17		6719	5645	6719	5645	6371	5196	6090	5196	5834	4601	4944	4601	5377	4209	4270	4209
200x45-E13	5.74		7448	6308	6724	6308	7041	5890	5797	5890	5939	5203	4725	5015	5125	4754	4173	4455
200x63-E13	8.03		7914	6777	7914	6777	7516	6375	7458	6375	6944	5769	6050	5769	6539	5282	5223	5282
240x45-E13	6.89		8438	7187	7802	7187	7896	6752	6720	6535	6865	6061	5456	5615	5938	5453	4728	5019
300x45-E13	8.61		9276	8235	8507	7887	8520	7596	7795	7206	7527	6715	6470	6290	6858	6108	5584	5678
300x63-E13	12.05		10344	9003	10344	9003	9887	8504	9887	8504	9206	7808	8837	7808	8709	7327	7616	7327

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
		Wind Category:	C3		C4		C3		C4		C3		C4		C3		C4	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		2763	2898	2352	2434	2390	2506	2035	2105	1948	2043	1419	1519	1465	1610	1064	1138
95x63-E12	3.82		3277	3366	2788	2885	2832	2971	2411	2494	2308	2420	1965	2033	1997	2094	1491	1595
150x45-E12	4.3		4272	4593	3704	3853	3757	3968	3219	3331	3081	3232	2246	2404	2318	2549	1682	1800
150x75-E12	7.17		5685	5496	4827	4997	4905	5059	4169	4315	3990	4186	3395	3513	3449	3618	2811	3010
200x45-E12	5.74		5333	5894	4575	5149	4637	5268	4044	4449	3896	4316	3000	3212	3097	3406	2246	2404
200x63-E12	8.03		6960	6643	5907	6115	6002	6249	5100	5279	4880	5120	4151	4296	4218	4424	3152	3374
240x45-E12	6.89		6163	6503	5234	6011	5318	5856	4572	5346	4411	5018	3606	3862	3723	4095	2698	2889
300x45-E12	8.61		7282	7114	6177	6637	6277	6484	5332	6026	5103	5642	4439	4840	4494	5084	3379	3618
300x63-E12	12.05		10066	8824	8522	8824	8662	8336	7346	7957	7028	7449	5971	6465	6067	6654	4748	5086
95x45-E13	2.73		2763	2898	2352	2434	2390	2506	2035	2105	1948	2043	1419	1519	1465	1610	1064	1138
95x63-E13	3.82		3277	3438	2788	2885	2832	2971	2411	2494	2308	2420	1965	2033	1997	2094	1491	1595
150x45-E13	4.3		4313	4593	3723	3853	3783	3968	3219	3331	3081	3232	2246	2404	2318	2549	1682	1800
150x75-E13	7.17		5685	5645	4827	4997	4905	5148	4169	4315	3990	4186	3395	3513	3449	3618	2811	3010
200x45-E13	5.74		5414	5982	4631	5149	4694	5304	4089	4449	3938	4316	3000	3212	3097	3406	2246	2404
200x63-E13	8.03		6960	6777	5907	6115	6002	6300	5100	5279	4880	5120	4151	4296	4218	4424	3152	3374
240x45-E13	6.89		6273	6625	5327	6117	5413	5956	4636	5346	4472	5094	3606	3862	3723	4095	2698	2889
300x45-E13	8.61		7446	7294	6316	6794	6419	6634	5452	6156	5217	5756	4512	4840	4569	5134	3379	3618
300x63-E13	12.05		10187	9003	8624	9003	8766	8504	7434	7957	7112	7557	6042	6465	6140	6659	4748	5086

Rafter Single Span Domestic Roof



Rafter Single Span Domestic Roof

Roof Slope deg: 0-35

Snow Load: None

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
		Wind Category:	N1		N2		N1		N2		N1		N2		N1		N2	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		2595	2265	2595	2265	2595	2069	2595	2069	2350	1818	2350	1818	2148	1656	2148	1656
95x63-E12	3.82		3070	2513	3070	2513	2934	2300	2934	2300	2604	2024	2604	2024	2385	1846	2385	1846
150x45-E12	4.3		4456	3534	4456	3534	4117	3237	4117	3237	3660	2852	3660	2852	3356	2602	3356	2602
150x75-E12	7.17		5072	4103	5072	4103	4724	3776	4724	3776	4240	3344	4240	3344	3908	3059	3908	3059
200x45-E12	5.74		5818	4662	5818	4662	5398	4281	5398	4281	4823	3781	4823	3781	4434	3455	4434	3455
200x63-E12	8.03		6230	5130	6230	5130	5889	4728	5889	4728	5299	4193	5299	4193	4891	3839	4891	3839
240x45-E12	6.89		6642	5548	6642	5548	6294	5104	6294	5104	5735	4517	5735	4517	5283	4132	5283	4132
300x45-E12	8.61		7720	6628	7720	6628	7339	6239	7339	6239	6789	5610	6789	5610	6397	5139	6397	5139
300x63-E12	12.05		8143	7087	8143	7087	7783	6694	7783	6694	7246	6146	7246	6146	6855	5693	6855	5693
95x45-E13	2.73		2701	2327	2701	2327	2701	2125	2701	2125	2413	1867	2413	1867	2206	1701	2206	1701
95x63-E13	3.82		3195	2581	3195	2581	3013	2362	3013	2362	2674	2079	2674	2079	2450	1896	2450	1896
150x45-E13	4.3		4577	3629	4577	3629	4228	3325	4228	3325	3759	2929	3759	2929	3447	2673	3447	2673
150x75-E13	7.17		5209	4214	5209	4214	4852	3878	4852	3878	4355	3434	4355	3434	4014	3142	4014	3142
200x45-E13	5.74		5975	4788	5975	4788	5544	4397	5544	4397	4954	3883	4954	3883	4554	3548	4554	3548
200x63-E13	8.03		6356	5269	6356	5269	6036	4856	6036	4856	5442	4306	5442	4306	5023	3943	5023	3943
240x45-E13	6.89		6776	5698	6776	5698	6421	5242	6421	5242	5890	4640	5890	4640	5426	4244	5426	4244
300x45-E13	8.61		7876	6762	7876	6762	7488	6365	7488	6365	6926	5762	6926	5762	6527	5278	6527	5278
300x63-E13	12.05		8307	7230	8307	7230	7940	6830	7940	6830	7393	6270	7393	6270	6994	5846	6994	5846

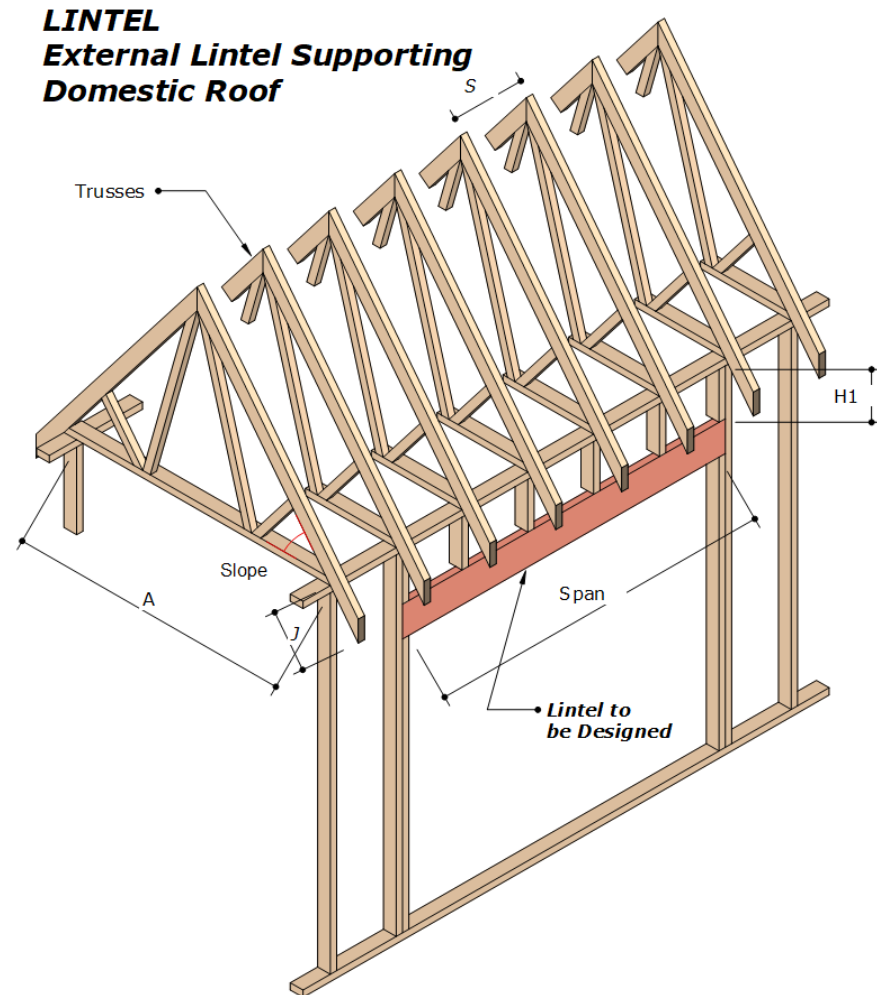
Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
			N3		N4		N3		N4		N3		N4		N3		N4	
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		2595	2265	2595	2265	2595	2069	2595	2069	2350	1818	2350	1818	2148	1656	2148	1656
95x63-E12	3.82		3070	2513	3070	2513	2934	2300	2934	2300	2604	2024	2604	2024	2385	1846	2385	1846
150x45-E12	4.3		4456	3534	4456	3534	4117	3237	4117	3237	3660	2852	3660	2852	3356	2602	3356	2602
150x75-E12	7.17		5072	4103	5072	4103	4724	3776	4724	3776	4240	3344	4240	3344	3908	3059	3908	3059
200x45-E12	5.74		5818	4662	5818	4662	5398	4281	5398	4281	4823	3781	4823	3781	4434	3455	4434	3455
200x63-E12	8.03		6230	5130	6230	5130	5889	4728	5889	4728	5299	4193	5299	4193	4891	3839	4891	3839
240x45-E12	6.89		6642	5548	6642	5548	6294	5104	6294	5104	5735	4517	5735	4517	5283	4132	5283	4132
300x45-E12	8.61		7720	6628	7720	6628	7339	6239	7339	6239	6789	5610	6789	5610	6397	5139	6397	5139
300x63-E12	12.05		8143	7087	8143	7087	7783	6694	7783	6694	7246	6146	7246	6146	6855	5693	6855	5693
95x45-E13	2.73		2701	2327	2701	2327	2701	2125	2701	2125	2413	1867	2413	1867	2206	1701	2206	1701
95x63-E13	3.82		3195	2581	3195	2581	3013	2362	3013	2362	2674	2079	2674	2079	2450	1896	2450	1896
150x45-E13	4.3		4577	3629	4577	3629	4228	3325	4228	3325	3759	2929	3759	2929	3447	2673	3447	2673
150x75-E13	7.17		5209	4214	5209	4214	4852	3878	4852	3878	4355	3434	4355	3434	4014	3142	4014	3142
200x45-E13	5.74		5975	4788	5975	4788	5544	4397	5544	4397	4954	3883	4954	3883	4554	3548	4554	3548
200x63-E13	8.03		6356	5269	6356	5269	6036	4856	6036	4856	5442	4306	5442	4306	5023	3943	5023	3943
240x45-E13	6.89		6776	5698	6776	5698	6421	5242	6421	5242	5890	4640	5890	4640	5426	4244	5426	4244
300x45-E13	8.61		7876	6762	7876	6762	7488	6365	7488	6365	6926	5762	6926	5762	6527	5278	6527	5278
300x63-E13	12.05		8307	7230	8307	7230	7940	6830	7940	6830	7393	6270	7393	6270	6994	5846	6994	5846

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
			N5		N6		N5		N6		N5		N6		N5		N6	
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		2595	2265	2595	2265	2595	2069	2545	2069	2350	1818	2186	1818	2148	1656	1850	1656
95x63-E12	3.82		3070	2513	3070	2513	2934	2300	2847	2300	2604	2024	2487	2024	2385	1846	2191	1846
150x45-E12	4.3		4456	3534	4423	3534	4117	3237	4018	3237	3660	2852	3510	2852	3356	2602	3000	2602
150x75-E12	7.17		5072	4103	5072	4103	4724	3776	4724	3776	4240	3344	4162	3344	3908	3059	3781	3059
200x45-E12	5.74		5818	4662	5645	4662	5398	4281	5253	4281	4823	3781	4672	3781	4434	3455	3936	3455
200x63-E12	8.03		6230	5130	6140	5130	5889	4728	5714	4728	5299	4193	5163	4193	4891	3839	4757	3839
240x45-E12	6.89		6642	5548	6472	5548	6294	5104	6023	5104	5735	4517	5233	4517	5276	4132	4422	4132
300x45-E12	8.61		7720	6628	7651	6628	7339	6239	7120	6239	6785	5610	5705	5610	5759	5139	4829	5139
300x63-E12	12.05		8143	7087	8143	7087	7783	6694	7745	6694	7246	6146	6998	6146	6855	5693	6513	5693
95x45-E13	2.73		2701	2327	2701	2327	2701	2125	2614	2125	2413	1867	2186	1867	2182	1701	1850	1701
95x63-E13	3.82		3195	2581	3195	2581	3013	2362	2924	2362	2674	2079	2554	2079	2450	1896	2191	1896
150x45-E13	4.3		4577	3629	4543	3629	4228	3325	4127	3325	3759	2929	3594	2929	3447	2673	3000	2673
150x75-E13	7.17		5209	4214	5209	4214	4852	3878	4852	3878	4355	3434	4275	3434	4014	3142	3884	3142
200x45-E13	5.74		5975	4788	5759	4788	5544	4397	5359	4397	4954	3883	4729	3883	4554	3548	3986	3548
200x63-E13	8.03		6356	5269	6264	5269	6036	4856	5829	4856	5442	4306	5267	4306	5023	3943	4886	3943
240x45-E13	6.89		6776	5698	6603	5698	6421	5242	6144	5242	5890	4640	5323	4640	5368	4244	4500	4244
300x45-E13	8.61		7876	6762	7806	6762	7488	6365	7264	6365	6926	5762	5870	5762	5928	5278	4972	5278
300x63-E13	12.05		8307	7230	8307	7230	7940	6830	7901	6830	7393	6270	7140	6270	6994	5846	6644	5846

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
			C1		C2		C1		C2		C1		C2		C1		C2	
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		2595	2265	2595	2265	2595	2069	2595	2069	2350	1818	2350	1818	2148	1656	2083	1656
95x63-E12	3.82		3070	2513	3070	2513	2934	2300	2934	2300	2604	2024	2604	2024	2385	1846	2385	1846
150x45-E12	4.3		4456	3534	4456	3534	4117	3237	4117	3237	3660	2852	3660	2852	3356	2602	3356	2602
150x75-E12	7.17		5072	4103	5072	4103	4724	3776	4724	3776	4240	3344	4240	3344	3908	3059	3908	3059
200x45-E12	5.74		5818	4662	5818	4662	5398	4281	5398	4281	4823	3781	4823	3781	4434	3455	4434	3455
200x63-E12	8.03		6230	5130	6230	5130	5889	4728	5889	4728	5299	4193	5299	4193	4891	3839	4891	3839
240x45-E12	6.89		6642	5548	6642	5548	6294	5104	6294	5104	5735	4517	5735	4517	5283	4132	5025	4132
300x45-E12	8.61		7720	6628	7720	6628	7339	6239	7339	6239	6789	5610	6471	5610	6397	5139	5487	5139
300x63-E12	12.05		8143	7087	8143	7087	7783	6694	7783	6694	7246	6146	7246	6146	6855	5693	6855	5693
95x45-E13	2.73		2701	2327	2701	2327	2701	2125	2701	2125	2413	1867	2413	1867	2206	1701	2083	1701
95x63-E13	3.82		3195	2581	3195	2581	3013	2362	3013	2362	2674	2079	2674	2079	2450	1896	2450	1896
150x45-E13	4.3		4577	3629	4577	3629	4228	3325	4228	3325	3759	2929	3759	2929	3447	2673	3421	2673
150x75-E13	7.17		5209	4214	5209	4214	4852	3878	4852	3878	4355	3434	4355	3434	4014	3142	4014	3142
200x45-E13	5.74		5975	4788	5975	4788	5544	4397	5544	4397	4954	3883	4954	3883	4554	3548	4532	3548
200x63-E13	8.03		6356	5269	6356	5269	6036	4856	6036	4856	5442	4306	5442	4306	5023	3943	5023	3943
240x45-E13	6.89		6776	5698	6776	5698	6421	5242	6421	5242	5890	4640	5890	4640	5426	4244	5113	4244
300x45-E13	8.61		7876	6762	7876	6762	7488	6365	7488	6365	6926	5762	6658	5762	6527	5278	5648	5278
300x63-E13	12.05		8307	7230	8307	7230	7940	6830	7940	6830	7393	6270	7393	6270	6994	5846	6994	5846

Product	Self Weight (kg/m2)	Rafter Spacing (mm):	450				600				900				1,200			
			C3		C4		C3		C4		C3		C4		C3		C4	
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		2595	2265	2542	2265	2549	2069	2148	2069	1970	1818	1660	1717	1686	1656	1330	1423
95x63-E12	3.82		3070	2513	3032	2513	2934	2300	2572	2300	2380	2024	1990	2024	1997	1846	1701	1760
150x45-E12	4.3		4456	3534	4083	3534	4116	3237	3482	3237	3256	2852	2738	2841	2704	2602	2102	2250
150x75-E12	7.17		5072	4103	5072	4103	4724	3776	4551	3776	4240	3344	3609	3344	3595	3059	3013	3059
200x45-E12	5.74		5818	4662	5268	4662	5322	4281	4506	4281	4238	3781	3575	3781	3560	3455	2807	3005
200x63-E12	8.03		6230	5130	6140	5130	5889	4728	5596	4728	5282	4193	4462	4193	4464	3839	3754	3839
240x45-E12	6.89		6642	5548	5888	5548	5952	5104	5039	5104	4749	4517	4009	4517	4003	4132	3361	3611
300x45-E12	8.61		7575	6628	6412	6628	6485	6239	5488	6239	5178	5610	4372	5255	4373	5139	3676	4442
300x63-E12	12.05		8143	7087	8143	7087	7783	6694	7745	6694	7246	6146	6558	6146	6598	5693	5568	5693
95x45-E13	2.73		2701	2327	2542	2327	2549	2125	2148	2125	1970	1867	1660	1717	1686	1701	1330	1423
95x63-E13	3.82		3195	2581	3032	2581	3013	2362	2572	2362	2380	2079	1990	2067	1997	1896	1701	1760
150x45-E13	4.3		4577	3629	4083	3629	4116	3325	3482	3325	3256	2929	2738	2841	2704	2673	2102	2250
150x75-E13	7.17		5209	4214	5209	4214	4852	3878	4551	3878	4280	3434	3609	3434	3595	3142	3013	3128
200x45-E13	5.74		5975	4788	5331	4788	5386	4397	4560	4397	4290	3883	3619	3868	3605	3548	2807	3005
200x63-E13	8.03		6356	5269	6264	5269	6036	4856	5596	4856	5282	4306	4462	4306	4464	3943	3754	3895
240x45-E13	6.89		6776	5698	5987	5698	6053	5242	5125	5242	4831	4640	4079	4611	4074	4244	3373	3611
300x45-E13	8.61		7790	6762	6594	6762	6670	6365	5646	6365	5329	5762	4501	5345	4504	5278	3788	4521
300x63-E13	12.05		8307	7230	8307	7230	7940	6830	7901	6830	7393	6270	6636	6270	6678	5846	5636	5846

External Lintel Supporting Domestic Roof



External Lintel Supporting Domestic Roof

Roof Overhang (J): 900 mm

Rafter/Truss Spacing (S): 900 mm

Roof Slope deg: 0-35

Snow Load: None

Wall (H1): 1000 mm high, 50 kg/m²

Point load (P): None

Roof Span (A) (mm):		4,000				5,000				6,000				8,000				10,000				
		N1		N2		N1		N2		N1		N2		N1		N2		N1		N2		
		40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	
Product	Self Weight (kg/m2)	Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1668	1209	1668	1209	1573	1128	1573	1128	1493	1062	1493	1062	1363	929	1363	929	1262	783	1262	783
95x63-E12	3.82		1825	1353	1825	1353	1758	1264	1758	1264	1669	1190	1669	1190	1525	1074	1525	1074	1412	986	1412	986
150x45-E12	4.3		2245	1902	2245	1902	2172	1845	2172	1845	2110	1800	2110	1800	2013	1626	2013	1626	1939	1494	1939	1494
150x75-E12	7.17		2580	2128	2580	2128	2484	2053	2484	2053	2404	1992	2404	1992	2276	1898	2276	1898	2178	1830	2178	1830
200x45-E12	5.74		2899	2342	2899	2342	2781	2249	2781	2249	2682	2173	2682	2173	2525	2057	2525	2057	2404	1801	2404	1801
200x63-E12	8.03		3253	2589	3253	2589	3113	2476	3113	2476	2996	2384	2996	2384	2808	2243	2808	2243	2663	2139	2663	2139
240x45-E12	6.89		3529	2778	3529	2778	3372	2650	3372	2650	3239	2545	3239	2545	3026	2385	3026	2385	2862	1806	2862	1806
300x45-E12	8.61		4117	3546	4117	3546	4006	3360	4006	3360	3912	3209	3912	3209	3757	2973	3757	2973	3635	2798	3635	2798
300x63-E12	12.05		4445	3830	4445	3830	4322	3718	4322	3718	4216	3623	4216	3623	4042	3364	4042	3364	3904	3153	3904	3153
95x45-E13	2.73		1712	1241	1712	1241	1615	1158	1615	1158	1532	1090	1532	1090	1399	929	1399	929	1295	783	1295	783
95x63-E13	3.82		1848	1393	1848	1393	1803	1301	1803	1301	1717	1225	1717	1225	1569	1105	1569	1105	1454	1015	1454	1015
150x45-E13	4.3		2292	1933	2292	1933	2215	1874	2215	1874	2151	1826	2151	1826	2049	1684	2049	1684	1972	1547	1972	1547
150x75-E13	7.17		2645	2172	2645	2172	2545	2093	2545	2093	2461	2029	2461	2029	2327	1931	2327	1931	2225	1859	2225	1859
200x45-E13	5.74		2980	2397	2980	2397	2857	2299	2857	2299	2753	2220	2753	2220	2588	2098	2588	2098	2462	1801	2462	1801
200x63-E13	8.03		3351	2657	3351	2657	3205	2538	3205	2538	3082	2442	3082	2442	2886	2294	2886	2294	2735	2185	2735	2185
240x45-E13	6.89		3621	2855	3621	2855	3476	2721	3476	2721	3337	2612	3337	2612	3115	2444	3115	2444	2944	1806	2944	1806
300x45-E13	8.61		4195	3631	4195	3631	4081	3466	4081	3466	3984	3307	3984	3307	3824	3061	3824	3061	3698	2877	3698	2877
300x63-E13	12.05		4535	3900	4535	3900	4408	3783	4408	3783	4298	3686	4298	3686	4118	3470	4118	3470	3976	3250	3976	3250

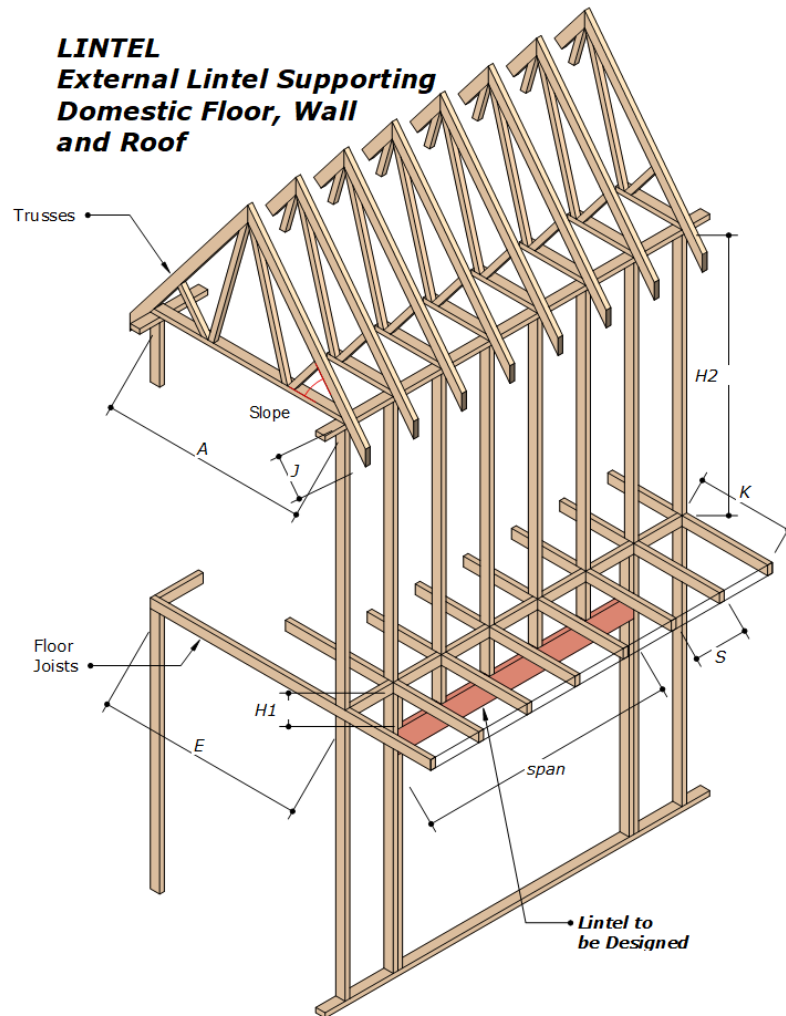
Product	Self Weight (kg/m2)	Roof Span (A) (mm):	4,000				5,000				6,000				8,000				10,000			
			N3		N4		N3		N4		N3		N4		N3		N4		N3		N4	
			Wind Category:																			
			Permanent Load (kg/m2):																			
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1668	1209	1668	1209	1573	1128	1573	1128	1493	1062	1493	1062	1363	929	1317	929	1262	783	1106	783
95x63-E12	3.82		1825	1353	1825	1353	1758	1264	1758	1264	1669	1190	1669	1190	1525	1074	1525	1074	1412	986	1412	986
150x45-E12	4.3		2245	1902	2245	1902	2172	1845	2172	1845	2110	1800	2110	1800	2013	1626	2013	1626	1939	1494	1939	1494
150x75-E12	7.17		2580	2128	2580	2128	2484	2053	2484	2053	2404	1992	2404	1992	2276	1898	2276	1898	2178	1830	2178	1830
200x45-E12	5.74		2899	2342	2899	2342	2781	2249	2781	2249	2682	2173	2682	2173	2525	2057	2525	2057	2404	1801	2404	1801
200x63-E12	8.03		3253	2589	3253	2589	3113	2476	3113	2476	2996	2384	2996	2384	2808	2243	2808	2243	2663	2139	2663	2139
240x45-E12	6.89		3529	2778	3529	2778	3372	2650	3372	2650	3239	2545	3239	2545	3026	2385	3026	2385	2862	1806	2862	1806
300x45-E12	8.61		4117	3546	4117	3546	4006	3360	4006	3360	3912	3209	3912	3209	3757	2973	3757	2973	3635	2798	3501	2798
300x63-E12	12.05		4445	3830	4445	3830	4322	3718	4322	3718	4216	3623	4216	3623	4042	3364	4042	3364	3904	3153	3904	3153
95x45-E13	2.73		1712	1241	1712	1241	1615	1158	1615	1158	1532	1090	1532	1090	1399	929	1317	929	1295	783	1106	783
95x63-E13	3.82		1848	1393	1848	1393	1803	1301	1803	1301	1717	1225	1717	1225	1569	1105	1569	1105	1454	1015	1454	1015
150x45-E13	4.3		2292	1933	2292	1933	2215	1874	2215	1874	2151	1826	2151	1826	2049	1684	2049	1684	1972	1547	1972	1547
150x75-E13	7.17		2645	2172	2645	2172	2545	2093	2545	2093	2461	2029	2461	2029	2327	1931	2327	1931	2225	1859	2225	1859
200x45-E13	5.74		2980	2397	2980	2397	2857	2299	2857	2299	2753	2220	2753	2220	2588	2098	2588	2098	2462	1801	2462	1801
200x63-E13	8.03		3351	2657	3351	2657	3205	2538	3205	2538	3082	2442	3082	2442	2886	2294	2886	2294	2735	2185	2735	2185
240x45-E13	6.89		3621	2855	3621	2855	3476	2721	3476	2721	3337	2612	3337	2612	3115	2444	3115	2444	2944	1806	2944	1806
300x45-E13	8.61		4195	3631	4195	3631	4081	3466	4081	3466	3984	3307	3984	3307	3824	3061	3824	3061	3698	2877	3587	2877
300x63-E13	12.05		4535	3900	4535	3900	4408	3783	4408	3783	4298	3686	4298	3686	4118	3470	4118	3470	3976	3250	3976	3250

Product	Self Weight (kg/m2)	Roof Span (A) (mm):	4,000				5,000				6,000				8,000				10,000			
			N5		N6		N5		N6		N5		N6		N5		N6		N5		N6	
			Wind Category:																			
			Permanent Load (kg/m2):																			
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1493	1209	1052	1088	1264	1117	892	935	1095	981	774	820	865	788	613	658	714	659	507	549
95x63-E12	3.82		1825	1353	1384	1353	1663	1264	1173	1240	1441	1190	1018	1087	1137	1045	806	873	939	874	667	729
150x45-E12	4.3		2245	1902	1963	1902	2116	1845	1801	1801	1994	1800	1686	1800	1801	1626	1333	1459	1554	1461	1103	1219
150x75-E12	7.17		2580	2128	2424	2128	2484	2053	2237	2053	2404	1992	2100	1992	2205	1898	1801	1801	1801	1801	1769	1801
200x45-E12	5.74		2899	2342	2499	2342	2761	2249	2302	2249	2553	2173	1801	1801	2268	1801	1801	1801	1801	1801	1801	1801
200x63-E12	8.03		3253	2589	2992	2589	3113	2476	2719	2476	2996	2384	2518	2384	2672	2243	1801	1801	2415	1801	1801	1801
240x45-E12	6.89		3529	2778	2875	2778	3213	2650	2620	2650	2944	2545	2432	2545	2576	2385	1801	1801	1801	1801	1801	1801
300x45-E12	8.61		3970	3546	3322	3546	3691	3360	2999	3257	3410	3209	2761	2984	2943	2973	1801	1801	2639	1801	1801	1801
300x63-E12	12.05		4445	3830	4445	3830	4322	3718	4168	3718	4216	3623	3601	3601	4042	3364	3496	3364	3601	3153	1801	3153
95x45-E13	2.73		1493	1241	1052	1088	1264	1117	892	935	1095	981	774	820	865	788	613	658	714	659	507	549
95x63-E13	3.82		1848	1393	1384	1393	1663	1301	1173	1240	1441	1225	1018	1087	1137	1045	806	873	939	874	667	729
150x45-E13	4.3		2283	1933	1963	1933	2116	1874	1801	1801	1994	1801	1686	1801	1801	1684	1333	1459	1554	1461	1103	1219
150x75-E13	7.17		2645	2172	2424	2172	2545	2093	2237	2093	2461	2029	2100	2029	2205	1931	1801	1801	1801	1801	1769	1801
200x45-E13	5.74		2980	2397	2499	2397	2761	2299	2302	2299	2553	2220	1801	1801	2268	1801	1801	1801	1801	1801	1801	1801
200x63-E13	8.03		3351	2657	2992	2657	3205	2538	2719	2538	3066	2442	2518	2442	2672	2294	1801	1801	2415	1801	1801	1801
240x45-E13	6.89		3621	2855	2914	2855	3260	2721	2653	2721	2985	2612	2461	2612	2608	2444	1801	1801	1801	1801	1801	1801
300x45-E13	8.61		4038	3631	3401	3601	3748	3466	3066	3334	3493	3307	2819	3050	3008	3061	1801	1801	2693	1801	1801	1801
300x63-E13	12.05		4535	3900	4529	3900	4408	3783	4168	3783	4298	3686	3601	3601	4106	3470	3496	3470	3601	3250	1801	3250

Product	Self Weight (kg/m2)	Roof Span (A) (mm):	4,000				5,000				6,000				8,000				10,000			
		Wind Category: Permanent Load (kg/m2):	C1		C2		C1		C2		C1		C2		C1		C2		C1		C2	
			40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1668	1209	1395	1209	1573	1128	1180	1103	1493	1049	1023	969	1313	854	808	780	1081	720	667	652
95x63-E12	3.82		1825	1353	1809	1353	1758	1264	1545	1264	1669	1190	1338	1190	1525	1074	1056	1029	1412	946	872	860
150x45-E12	4.3		2245	1902	2199	1902	2172	1845	2046	1845	2110	1800	1933	1800	2013	1626	1736	1626	1939	1494	1433	1430
150x75-E12	7.17		2580	2128	2580	2128	2484	2053	2484	2053	2404	1992	2371	1992	2276	1898	2124	1898	2178	1801	1801	1801
200x45-E12	5.74		2899	2342	2895	2342	2781	2249	2634	2249	2682	2173	2442	2173	2525	1801	1801	1801	2404	1801	1801	1801
200x63-E12	8.03		3253	2589	3253	2589	3113	2476	3113	2476	2996	2384	2910	2384	2808	2243	2549	2243	2663	2139	1801	1801
240x45-E12	6.89		3529	2778	3384	2778	3372	2650	3046	2650	3239	2545	2799	2545	3026	2385	2462	2385	2862	1801	1801	1801
300x45-E12	8.61		4117	3546	3819	3546	4006	3360	3538	3360	3912	3209	3225	3209	3721	2973	2797	2973	3341	2798	2518	1801
300x63-E12	12.05		4445	3830	4445	3830	4322	3718	4322	3718	4216	3623	4216	3623	4042	3364	3601	3364	3904	3153	3601	3153
95x45-E13	2.73		1712	1241	1395	1241	1615	1158	1180	1103	1532	1049	1023	969	1313	854	808	780	1081	720	667	652
95x63-E13	3.82		1848	1393	1809	1393	1803	1301	1545	1301	1717	1225	1338	1225	1569	1105	1056	1029	1415	946	872	860
150x45-E13	4.3		2292	1933	2199	1933	2215	1874	2046	1874	2151	1826	1933	1801	2049	1684	1736	1684	1972	1547	1433	1430
150x75-E13	7.17		2645	2172	2645	2172	2545	2093	2545	2093	2461	2029	2371	2029	2327	1931	2124	1931	2225	1801	1801	1801
200x45-E13	5.74		2980	2397	2895	2397	2857	2299	2634	2299	2753	2220	2442	2220	2588	1801	1801	1801	2462	1801	1801	1801
200x63-E13	8.03		3351	2657	3351	2657	3205	2538	3175	2538	3082	2442	2910	2442	2886	2294	2549	2294	2735	2185	1801	1801
240x45-E13	6.89		3621	2855	3435	2855	3476	2721	3089	2721	3337	2612	2837	2612	3115	2444	2491	2444	2930	1801	1801	1801
300x45-E13	8.61		4195	3631	3881	3631	4081	3466	3615	3466	3984	3307	3300	3307	3779	3061	2856	3061	3420	2877	2567	1801
300x63-E13	12.05		4535	3900	4535	3900	4408	3783	4408	3783	4298	3686	4298	3686	4118	3470	3601	3470	3976	3250	3601	3250

Roof Span (A) (mm):		4,000				5,000				6,000				8,000				10,000				
		Wind Category:		C3		C4		C3		C4		C3		C4		C3		C4				
																				C3		C4
Product	Self Weight (kg/m2)	Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		891	1007	639	696	756	854	543	591	657	742	472	514	520	587	0	407	430	485	0	0
95x63-E12	3.82		1165	1318	835	910	989	1117	709	773	859	970	617	672	680	767	489	533	562	635	0	0
150x45-E12	4.3		1801	1801	1372	1496	1625	1801	1166	1271	1411	1594	1013	1104	1117	1260	803	875	924	1042	0	725
150x75-E12	7.17		2219	2128	1801	1801	2065	2053	1801	1801	1801	1992	1618	1764	1784	1801	1282	1397	1475	1665	1062	1156
200x45-E12	5.74		2282	2342	1801	1801	1801	2237	1801	1801	1801	1801	1718	1801	1801	1801	1361	1483	1566	1768	1128	1228
200x63-E12	8.03		2689	2589	1801	2363	2463	2476	1801	1801	1801	2384	1801	1801	1801	1801	1801	1801	1801	1801	1551	1690
240x45-E12	6.89		2592	2775	1801	1801	2381	2535	1801	1801	1801	1801	1801	1801	1801	1801	1752	1801	1801	1801	1451	1580
300x45-E12	8.61		2962	3194	1801	2576	2694	2889	1801	1801	2497	2666	1801	1801	1801	1801	1801	1801	1801	1801	1801	1801
300x63-E12	12.05		4124	3830	3543	3601	3601	3718	3189	3369	3601	3601	1801	3084	3105	3352	1801	1801	1801	1801	1801	1801
95x45-E13	2.73		891	1007	639	696	756	854	543	591	657	742	472	514	520	587	0	407	430	485	0	0
95x63-E13	3.82		1165	1318	835	910	989	1117	709	773	859	970	617	672	680	767	489	533	562	635	0	0
150x45-E13	4.3		1801	1801	1372	1496	1625	1801	1166	1271	1411	1594	1013	1104	1117	1260	803	875	924	1042	0	725
150x75-E13	7.17		2219	2172	1801	1801	2065	2093	1801	1801	1801	2029	1618	1764	1784	1801	1282	1397	1475	1665	1062	1156
200x45-E13	5.74		2282	2397	1801	1801	1801	2237	1801	1801	1801	1801	1718	1801	1801	1801	1361	1483	1566	1768	1128	1228
200x63-E13	8.03		2689	2657	1801	2363	2463	2538	1801	1801	1801	2439	1801	1801	1801	1801	1801	1801	1801	1801	1551	1690
240x45-E13	6.89		2625	2812	1801	1801	2409	2566	1801	1801	1801	1801	1801	1801	1801	1801	1793	1801	1801	1801	1485	1618
300x45-E13	8.61		3028	3268	1801	2627	2750	2952	1801	1801	2545	2720	1801	1801	1801	1801	1801	1801	1801	1801	1801	1801
300x63-E13	12.05		4124	3900	3543	3601	3601	3783	3189	3369	3601	3601	1801	3084	3105	3352	1801	1801	1801	1801	1801	1801

External Lower Floor Lintel Supporting Domestic Floor, Wall and Roof



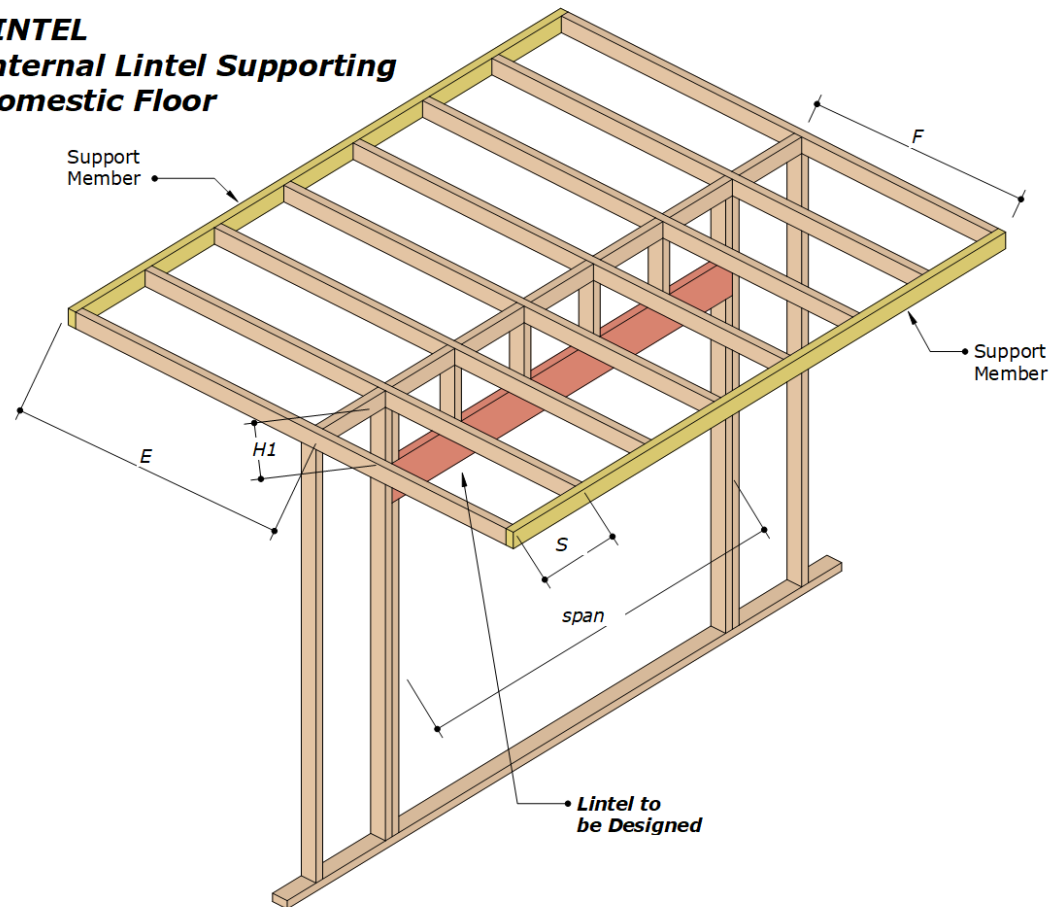
External Lower Floor Lintel
Supporting Domestic Floor, Wall
and Roof

Floor Weight:	50 kg/m ²
Floor Overhang (K):	0 mm
Joist Spacing (S):	450 mm
Wall (H1):	1000 mm high, 50 kg/m ²
Wall (H2):	3000 mm high, 50 kg/m ²
Total Rafter/truss Span (A):	6000 mm
Rafter/truss Spacing (S):	900 mm
Roof Slope deg:	0-35
Snow Load:	None
Point load (P):	None

Product	Self Weight (kg/m2)	Floor Joist Span Span (E) (mm)	3,000		4,000		5,000		6,000		8,000	
		Light Weight Roof Load (kg/m2):	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1117	992	1082	970	1051	950	1024	932	976	898
95x63-E12	3.82		1205	1071	1168	1047	1134	1025	1105	1005	1054	969
150x45-E12	4.3		1590	1413	1541	1382	1497	1353	1458	1327	1391	1163
150x75-E12	7.17		1851	1646	1794	1609	1743	1576	1698	1545	1619	1490
200x45-E12	5.74		2067	1838	2003	1797	1946	1731	1896	1597	1674	1383
200x63-E12	8.03		2297	2043	2226	1998	2163	1956	2107	1918	2010	1735
240x45-E12	6.89		2459	2187	2383	2130	2316	1951	2252	1800	1887	1559
300x45-E12	8.61		3054	2717	2960	2489	2877	2280	2631	2104	2205	1823
300x63-E12	12.05		3404	3030	3300	2963	3208	2902	3125	2709	2838	2348
95x45-E13	2.73		1137	1010	1101	988	1070	967	1042	948	991	901
95x63-E13	3.82		1228	1092	1190	1068	1157	1045	1126	1025	1074	988
150x45-E13	4.3		1628	1447	1577	1415	1533	1385	1493	1343	1407	1163
150x75-E13	7.17		1897	1687	1838	1650	1787	1615	1740	1584	1660	1528
200x45-E13	5.74		2120	1885	2054	1843	1996	1731	1944	1597	1674	1383
200x63-E13	8.03		2356	2096	2284	2050	2220	2007	2162	1968	2062	1735
240x45-E13	6.89		2523	2244	2446	2130	2377	1951	2252	1800	1887	1559
300x45-E13	8.61		3135	2739	3039	2489	2912	2280	2631	2104	2205	1823
300x63-E13	12.05		3495	3111	3388	3043	3293	2935	3208	2709	2838	2348

Internal Lintel Supporting Domestic Floor

LINTEL **Internal Lintel Supporting** **Domestic Floor**

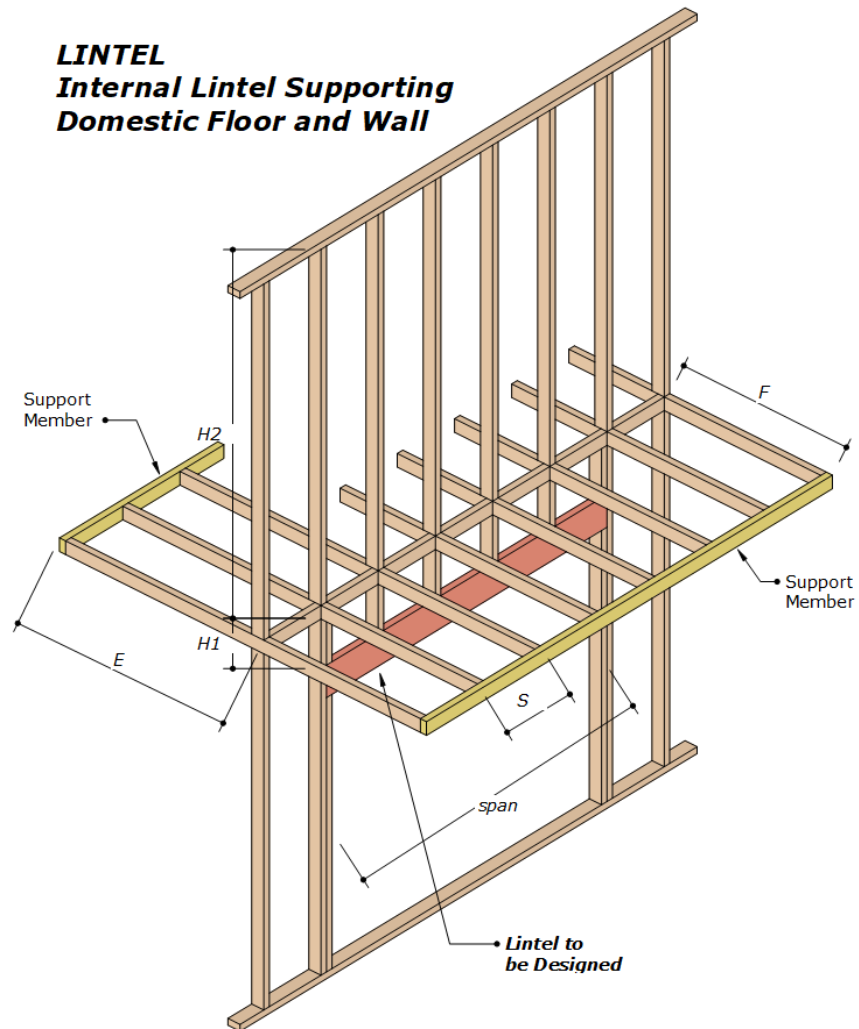


Internal Lintel Supporting Domestic Floor

House Floor Load:	50 kg/m ²
Joist Spacing (S):	450 mm
Floor Weight:	50 kg/m ²
Wall (H1):	1000 mm high, 50 kg/m ²
Point load (P):	None

Product	Floor Joist Span Span (E+F) (mm)					
	Self Weight (kg/m2)	4000	5000	6000	8000	10000
95x45-E12	2.73	1416	1331	1264	1162	1068
95x63-E12	3.82	1526	1436	1363	1253	1172
150x45-E12	4.3	2013	1894	1799	1654	1547
150x75-E12	7.17	2339	2202	2092	1925	1800
200x45-E12	5.74	2615	2461	2337	2150	1943
200x63-E12	8.03	2901	2732	2596	2388	2234
240x45-E12	6.89	3109	2926	2780	2557	2189
300x45-E12	8.61	3791	3623	3451	3150	2558
300x63-E12	12.05	4106	3926	3781	3539	3291
95x45-E13	2.73	1441	1355	1286	1182	1068
95x63-E13	3.82	1556	1464	1390	1278	1195
150x45-E13	4.3	2061	1939	1842	1693	1583
150x75-E13	7.17	2397	2257	2144	1973	1845
200x45-E13	5.74	2682	2524	2397	2205	1943
200x63-E13	8.03	2977	2803	2663	2450	2292
240x45-E13	6.89	3190	3003	2853	2624	2189
300x45-E13	8.61	3866	3696	3543	3150	2558
300x63-E13	12.05	4188	4005	3856	3625	3291

Internal Lintel Supporting Domestic Floor and Wall



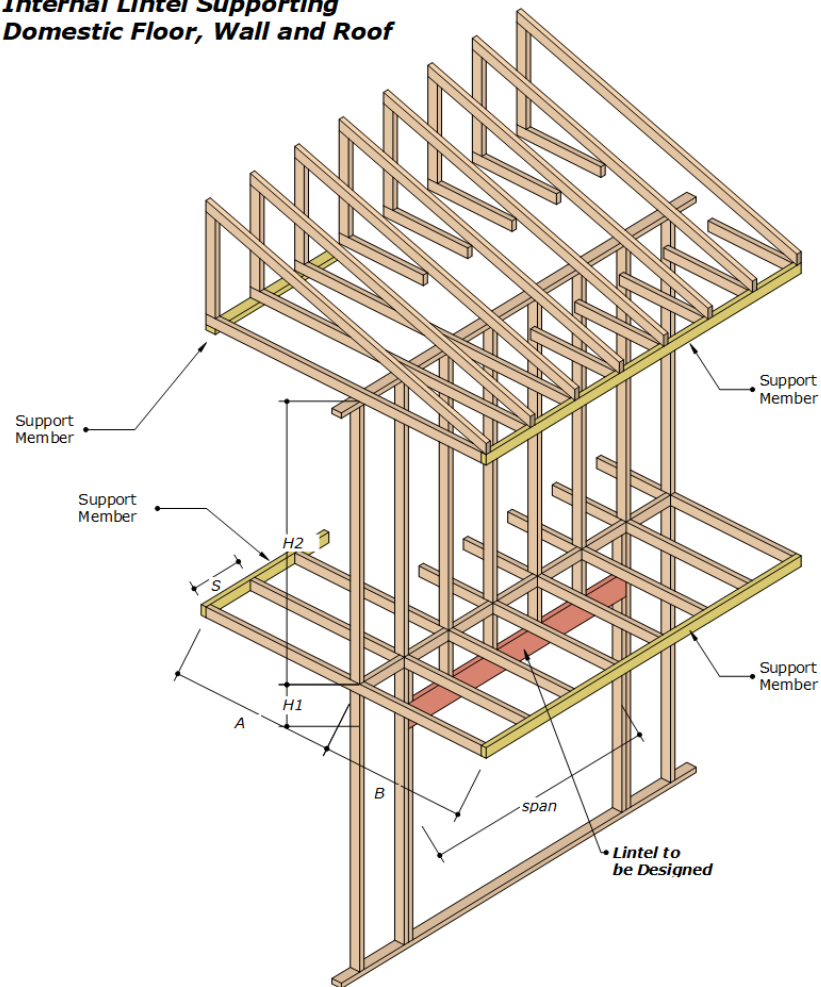
Internal Lintel Supporting Domestic Floor and Wall

House Floor Load:	50 kg/m ²
Joist Spacing (S):	450 mm
Floor Weight:	50 kg/m ²
Wall (H1):	1000 mm high, 50 kg/m ²
Wall (H2):	3000 mm high, 50 kg/m ²
Point load (P):	None

Product	Self Weight (kg/m2)	Floor Joist Span Span (E+F) (mm)				
		4000	5000	6000	8000	10000
95x45-E12	2.73	1224	1175	1133	1064	994
95x63-E12	3.82	1321	1268	1222	1148	1089
150x45-E12	4.3	1742	1673	1613	1515	1416
150x75-E12	7.17	2027	1946	1877	1764	1674
200x45-E12	5.74	2264	2174	2097	1970	1684
200x63-E12	8.03	2515	2415	2330	2189	2077
240x45-E12	6.89	2694	2586	2494	2268	1898
300x45-E12	8.61	3344	3212	3098	2649	2218
300x63-E12	12.05	3693	3579	3453	3246	2855
95x45-E13	2.73	1246	1196	1153	1083	994
95x63-E13	3.82	1346	1292	1246	1171	1110
150x45-E13	4.3	1784	1713	1651	1551	1416
150x75-E13	7.17	2078	1995	1924	1808	1715
200x45-E13	5.74	2322	2230	2150	2012	1684
200x63-E13	8.03	2581	2478	2390	2246	2111
240x45-E13	6.89	2764	2654	2560	2268	1898
300x45-E13	8.61	3433	3297	3180	2649	2218
300x63-E13	12.05	3767	3655	3545	3332	2855

Internal Lintel Supporting Domestic Floor, Wall and Roof

LINTEL **Internal Lintel Supporting** **Domestic Floor, Wall and Roof**



Internal Lintel Supporting Domestic Floor, Wall and Roof

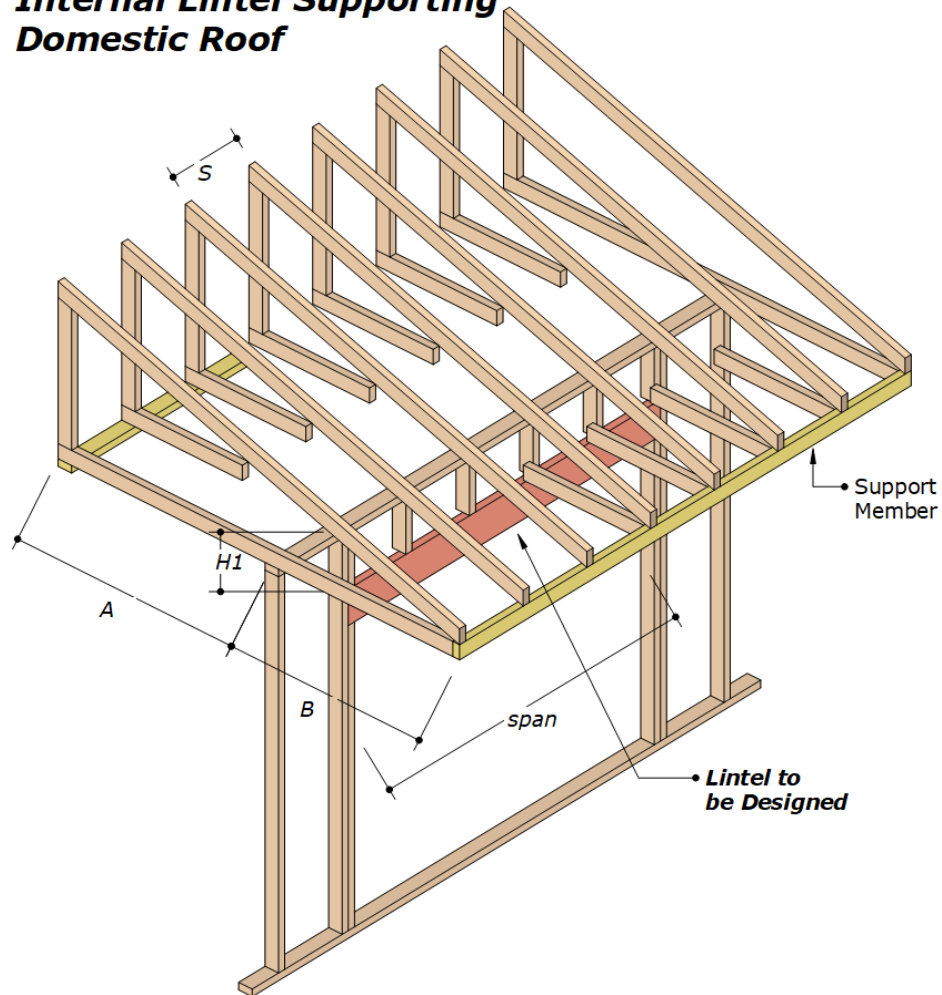
Sheet Roof Load:	40 kg/m ²
Joist Spacing (S):	450 mm
Floor Weight:	50 kg/m ²
Wall (H1):	1000 mm high, 50 kg/m ²
Wall (H2):	3000 mm high, 50 kg/m ²
Total Rafter/Truss Span (A+B):	12,000 mm
Rafter/Truss Spacing (S):	900 mm
Roof Slope (deg):	0-35
Roof Snow Load:	None
Point load (P):	None

Note: for lintels supporting masonry, if H1 is greater than span/2, adopt H1=span/3 and A, B, E and F equal to 0

Product	Self Weight (kg/m2)	Floor Joist Span (E+F) (mm)	4,000		5,000		6,000		8,000		10,000	
		Light Weight Roof Load (kg/m2):										
			40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1028	896	1003	881	980	867	940	787	885	706
95x63-E12	3.82		1109	967	1082	951	1057	936	1014	909	977	835
150x45-E12	4.3		1464	1276	1428	1202	1395	1124	1290	995	1123	893
150x75-E12	7.17		1704	1487	1663	1462	1625	1439	1559	1372	1502	1231
200x45-E12	5.74		1903	1537	1857	1430	1803	1337	1535	1184	1336	1062
200x63-E12	8.03		2115	1845	2064	1794	2017	1678	1925	1485	1676	1333
240x45-E12	6.89		2265	1732	2209	1612	2032	1508	1730	1335	1506	1198
300x45-E12	8.61		2813	2024	2602	1884	2375	1762	2022	1561	1761	1400
300x63-E12	12.05		3137	2607	3061	2427	2992	2270	2604	2011	2268	1804
95x45-E13	2.73		1046	912	1020	897	997	883	949	787	885	706
95x63-E13	3.82		1131	986	1103	970	1078	954	1034	926	996	835
150x45-E13	4.3		1499	1292	1462	1202	1429	1124	1290	995	1123	893
150x75-E13	7.17		1747	1524	1704	1499	1666	1475	1597	1372	1539	1231
200x45-E13	5.74		1952	1537	1904	1430	1803	1337	1535	1184	1336	1062
200x63-E13	8.03		2170	1893	2117	1794	2069	1678	1925	1485	1676	1333
240x45-E13	6.89		2324	1732	2227	1612	2032	1508	1730	1335	1506	1198
300x45-E13	8.61		2877	2024	2602	1884	2375	1762	2022	1561	1761	1400
300x63-E13	12.05		3221	2607	3143	2427	3057	2270	2604	2011	2268	1804

Internal Lintel Supporting Domestic Roof

LINTEL **Internal Lintel Supporting** **Domestic Roof**



Internal Lintel Supporting Domestic Roof

Rafter/Truss Spacing (S): 900 mm

Roof Slope (deg): 0-35

Roof Snow Load: None

Wall (H1): 1000 mm high, 50 kg/m²

Point load (P): None

*

Product	Self Weight (kg/m2)	Roof Span (A+B) (mm)	4,000				5,000				6,000				8,000				10,000			
		Wind Category:	N1		N2		N1		N2		N1		N2		N1		N2		N1		N2	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1838	1411	1838	1411	1758	1287	1758	1287	1648	1191	1648	1191	1478	1050	1478	1050	1352	912	1352	912
95x63-E12	3.82		1931	1578	1931	1578	1867	1441	1867	1441	1816	1334	1816	1334	1652	1176	1652	1176	1512	1064	1512	1064
150x45-E12	4.3		2425	2048	2425	2048	2316	1958	2316	1958	2229	1889	2229	1889	2099	1780	2099	1780	2005	1611	2005	1611
150x75-E12	7.17		2811	2323	2811	2323	2672	2203	2672	2203	2560	2112	2560	2112	2389	1981	2389	1981	2265	1890	2265	1890
200x45-E12	5.74		3183	2582	3183	2582	3012	2434	3012	2434	2874	2322	2874	2322	2664	2159	2664	2159	2511	2047	2511	2047
200x63-E12	8.03		3584	2877	3584	2877	3385	2700	3385	2700	3223	2564	3223	2564	2974	2368	2974	2368	2792	2231	2792	2231
240x45-E12	6.89		3759	3104	3759	3104	3641	2903	3641	2903	3495	2750	3495	2750	3215	2527	3215	2527	3008	2372	3008	2372
300x45-E12	8.61		4372	3815	4372	3815	4219	3666	4219	3666	4093	3505	4093	3505	3895	3181	3895	3181	3744	2953	3744	2953
300x63-E12	12.05		4729	4107	4729	4107	4560	3939	4560	3939	4419	3806	4419	3806	4197	3606	4197	3606	4027	3340	4027	3340
95x45-E13	2.73		1859	1448	1859	1448	1801	1321	1801	1321	1691	1223	1691	1223	1517	1078	1517	1078	1387	912	1387	912
95x63-E13	3.82		1958	1624	1958	1624	1891	1483	1891	1483	1838	1373	1838	1373	1701	1211	1701	1211	1556	1095	1556	1095
150x45-E13	4.3		2480	2086	2480	2086	2366	1992	2366	1992	2276	1920	2276	1920	2139	1817	2139	1817	2041	1669	2041	1669
150x75-E13	7.17		2887	2376	2887	2376	2741	2250	2741	2250	2624	2155	2624	2155	2445	2017	2445	2017	2315	1923	2315	1923
200x45-E13	5.74		3276	2649	3276	2649	3098	2494	3098	2494	2954	2376	2954	2376	2734	2206	2734	2206	2574	2088	2574	2088
200x63-E13	8.03		3651	2958	3651	2958	3488	2773	3488	2773	3319	2631	3319	2631	3060	2425	3060	2425	2869	2282	2869	2282
240x45-E13	6.89		3825	3196	3825	3196	3703	2987	3703	2987	3602	2826	3602	2826	3312	2592	3312	2592	3096	2429	3096	2429
300x45-E13	8.61		4459	3883	4459	3883	4301	3730	4301	3730	4171	3609	4171	3609	3966	3279	3966	3279	3810	3040	3810	3040
300x63-E13	12.05		4827	4185	4827	4185	4653	4012	4653	4012	4508	3875	4508	3875	4278	3668	4278	3668	4103	3446	4103	3446

Product	Self Weight (kg/m2)	Roof Span (A+B) (mm)	4,000				5,000				6,000				8,000				10,000			
		Wind Category:	N3		N4		N3		N4		N3		N4		N3		N4		N3		N4	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1838	1411	1838	1411	1758	1287	1758	1287	1648	1191	1648	1191	1478	1050	1478	1050	1352	912	1292	912
95x63-E12	3.82		1931	1578	1931	1578	1867	1441	1867	1441	1816	1334	1816	1334	1652	1176	1652	1176	1512	1064	1512	1064
150x45-E12	4.3		2425	2048	2425	2048	2316	1958	2316	1958	2229	1889	2229	1889	2099	1780	2099	1780	2005	1611	2005	1611
150x75-E12	7.17		2811	2323	2811	2323	2672	2203	2672	2203	2560	2112	2560	2112	2389	1981	2389	1981	2265	1890	2265	1890
200x45-E12	5.74		3183	2582	3183	2582	3012	2434	3012	2434	2874	2322	2874	2322	2664	2159	2664	2159	2511	2047	2511	2047
200x63-E12	8.03		3584	2877	3584	2877	3385	2700	3385	2700	3223	2564	3223	2564	2974	2368	2974	2368	2792	2231	2792	2231
240x45-E12	6.89		3759	3104	3759	3104	3641	2903	3641	2903	3495	2750	3495	2750	3215	2527	3215	2527	3008	2372	3008	2372
300x45-E12	8.61		4372	3815	4372	3815	4219	3666	4219	3666	4093	3505	4093	3505	3895	3181	3895	3181	3744	2953	3744	2953
300x63-E12	12.05		4729	4107	4729	4107	4560	3939	4560	3939	4419	3806	4419	3806	4197	3606	4197	3606	4027	3340	4027	3340
95x45-E13	2.73		1859	1448	1859	1448	1801	1321	1801	1321	1691	1223	1691	1223	1517	1078	1517	1078	1387	912	1292	912
95x63-E13	3.82		1958	1624	1958	1624	1891	1483	1891	1483	1838	1373	1838	1373	1701	1211	1701	1211	1556	1095	1556	1095
150x45-E13	4.3		2480	2086	2480	2086	2366	1992	2366	1992	2276	1920	2276	1920	2139	1817	2139	1817	2041	1669	2041	1669
150x75-E13	7.17		2887	2376	2887	2376	2741	2250	2741	2250	2624	2155	2624	2155	2445	2017	2445	2017	2315	1923	2315	1923
200x45-E13	5.74		3276	2649	3276	2649	3098	2494	3098	2494	2954	2376	2954	2376	2734	2206	2734	2206	2574	2088	2574	2088
200x63-E13	8.03		3651	2958	3651	2958	3488	2773	3488	2773	3319	2631	3319	2631	3060	2425	3060	2425	2869	2282	2869	2282
240x45-E13	6.89		3825	3196	3825	3196	3703	2987	3703	2987	3602	2826	3602	2826	3312	2592	3312	2592	3096	2429	3096	2429
300x45-E13	8.61		4459	3883	4459	3883	4301	3730	4301	3730	4171	3609	4171	3609	3966	3279	3966	3279	3810	3040	3810	3040
300x63-E13	12.05		4827	4185	4827	4185	4653	4012	4653	4012	4508	3875	4508	3875	4278	3668	4278	3668	4103	3446	4103	3446

Product	Self Weight (kg/m2)	Roof Span (A+B) (mm)	4,000				5,000				6,000				8,000				10,000			
		Wind Category:	N5		N6		N5		N6		N5		N6		N5		N6		N5		N6	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1838	1411	1552	1411	1748	1287	1228	1251	1441	1191	1015	1053	1067	957	755	800	847	773	600	645
95x63-E12	3.82		1931	1578	1881	1578	1867	1441	1615	1441	1816	1334	1336	1334	1403	1176	992	1061	1114	1025	789	856
150x45-E12	4.3		2425	2048	2326	2048	2316	1958	2090	1958	2229	1889	1936	1801	1974	1780	1642	1774	1801	1611	1306	1431
150x75-E12	7.17		2811	2323	2811	2323	2672	2203	2629	2203	2560	2112	2381	2112	2389	1981	2077	1981	2185	1890	1801	1801
200x45-E12	5.74		3183	2582	3118	2582	3012	2434	2716	2434	2874	2322	2454	2322	2517	2159	1801	1801	1801	1801	1801	1801
200x63-E12	8.03		3584	2877	3584	2877	3385	2700	3293	2700	3223	2564	2929	2564	2974	2368	2484	2368	2641	2231	1801	1801
240x45-E12	6.89		3759	3104	3644	3104	3641	2903	3155	2903	3495	2750	2817	2750	2898	2527	1801	2527	2547	1801	1801	1801
300x45-E12	8.61		4372	3815	4042	3815	4219	3666	3647	3666	3907	3505	3249	3505	3353	3181	2721	2938	2907	2953	1801	1801
300x63-E12	12.05		4729	4107	4729	4107	4560	3939	4560	3939	4419	3806	4419	3806	4197	3606	3601	3601	3601	3340	3449	3340
95x45-E13	2.73		1859	1448	1552	1448	1748	1321	1228	1251	1441	1223	1015	1053	1067	957	755	800	847	773	600	645
95x63-E13	3.82		1958	1624	1881	1624	1891	1483	1615	1483	1832	1373	1336	1373	1403	1211	992	1061	1114	1025	789	856
150x45-E13	4.3		2480	2086	2326	2086	2366	1992	2090	1992	2245	1920	1936	1801	1974	1801	1642	1774	1801	1669	1306	1431
150x75-E13	7.17		2887	2376	2887	2376	2741	2250	2629	2250	2624	2155	2381	2155	2441	2017	2077	2017	2185	1923	1801	1801
200x45-E13	5.74		3276	2649	3118	2649	3098	2494	2716	2494	2954	2376	2454	2376	2517	2206	1801	1801	1801	1801	1801	1801
200x63-E13	8.03		3651	2958	3651	2958	3488	2773	3293	2773	3319	2631	2929	2631	3017	2425	2484	2425	2641	2282	1801	1801
240x45-E13	6.89		3825	3196	3679	3196	3703	2987	3202	2987	3551	2826	2855	2826	2938	2592	1801	2592	2579	1801	1801	1801
300x45-E13	8.61		4459	3883	4112	3883	4301	3730	3703	3730	3972	3609	3325	3601	3433	3279	2777	3002	2971	3040	1801	1801
300x63-E13	12.05		4827	4185	4827	4185	4653	4012	4653	4012	4508	3875	4447	3875	4278	3668	3601	3601	3601	3446	3449	3446

Product	Self Weight (kg/m2)	Roof Span (A+B) (mm)	4,000				5,000				6,000				8,000				10,000			
		Wind Category:	C1		C2		C1		C2		C1		C2		C1		C2		C1		C2	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1838	1411	1838	1411	1758	1287	1633	1287	1648	1191	1346	1191	1478	1025	996	946	1286	838	791	765
95x63-E12	3.82		1931	1578	1931	1578	1867	1441	1867	1441	1816	1334	1762	1334	1652	1176	1303	1176	1512	1064	1034	1009
150x45-E12	4.3		2425	2048	2425	2048	2316	1958	2316	1958	2229	1889	2164	1889	2099	1780	1914	1780	2005	1611	1700	1611
150x75-E12	7.17		2811	2323	2811	2323	2672	2203	2672	2203	2560	2112	2560	2112	2389	1981	2340	1981	2265	1890	2105	1890
200x45-E12	5.74		3183	2582	3183	2582	3012	2434	3012	2434	2874	2322	2836	2322	2664	2159	2410	2159	2511	1801	1801	1801
200x63-E12	8.03		3584	2877	3584	2877	3385	2700	3385	2700	3223	2564	3223	2564	2974	2368	2866	2368	2792	2231	2521	2231
240x45-E12	6.89		3759	3104	3759	3104	3641	2903	3641	2903	3495	2750	3306	2750	3215	2527	2757	2527	3008	2372	2436	1801
300x45-E12	8.61		4372	3815	4372	3815	4219	3666	4103	3666	4093	3505	3761	3505	3895	3181	3172	3181	3688	2953	2764	2953
300x63-E12	12.05		4729	4107	4729	4107	4560	3939	4560	3939	4419	3806	4419	3806	4197	3606	4197	3606	4027	3340	3601	3340
95x45-E13	2.73		1859	1448	1859	1448	1801	1321	1633	1321	1691	1223	1346	1223	1517	1025	996	946	1286	838	791	765
95x63-E13	3.82		1958	1624	1958	1624	1891	1483	1891	1483	1838	1373	1762	1373	1701	1211	1303	1211	1556	1095	1034	1009
150x45-E13	4.3		2480	2086	2480	2086	2366	1992	2366	1992	2276	1920	2164	1920	2139	1817	1914	1801	2041	1669	1700	1669
150x75-E13	7.17		2887	2376	2887	2376	2741	2250	2741	2250	2624	2155	2624	2155	2445	2017	2340	2017	2315	1923	2105	1923
200x45-E13	5.74		3276	2649	3276	2649	3098	2494	3098	2494	2954	2376	2836	2376	2734	2206	2410	2206	2574	1801	1801	1801
200x63-E13	8.03		3651	2958	3651	2958	3488	2773	3488	2773	3319	2631	3319	2631	3060	2425	2866	2425	2869	2282	2521	2282
240x45-E13	6.89		3825	3196	3825	3196	3703	2987	3703	2987	3602	2826	3356	2826	3312	2592	2794	2592	3096	2429	2465	1801
300x45-E13	8.61		4459	3883	4459	3883	4301	3730	4175	3730	4171	3609	3820	3609	3966	3279	3245	3279	3745	3040	2822	3040
300x63-E13	12.05		4827	4185	4827	4185	4653	4012	4653	4012	4508	3875	4508	3875	4278	3668	4278	3668	4103	3446	3601	3446

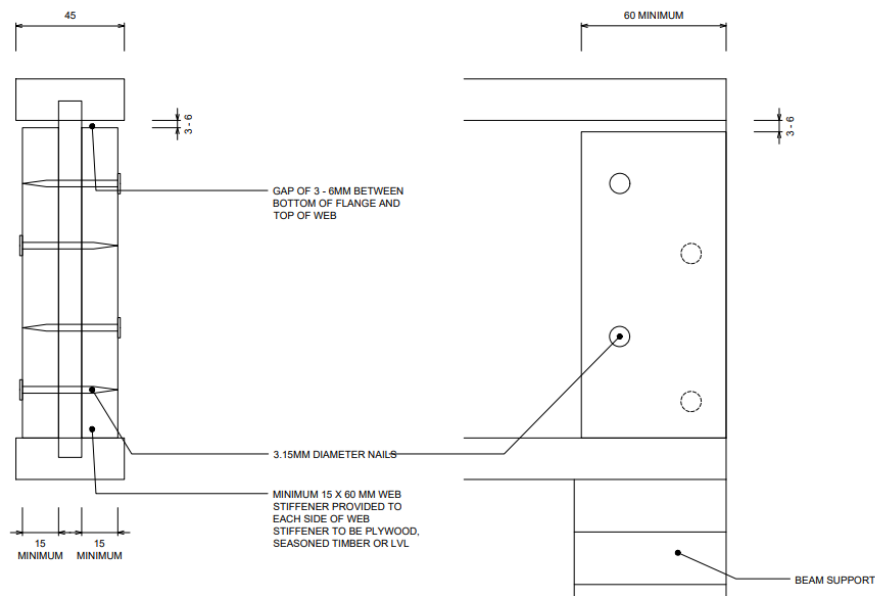
Product	Self Weight (kg/m2)	Roof Span (A+B) (mm)	4,000				5,000				6,000				8,000				10,000			
		Wind Category:	C3		C4		C3		C4		C3		C4		C3		C4		C3		C4	
		Permanent Load (kg/m2):	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90	40	90
95x45-E12	2.73		1313	1411	936	1022	1039	1176	744	811	860	972	617	672	640	722	460	501	509	575	0	0
95x63-E12	3.82		1718	1578	1225	1337	1360	1441	972	1061	1125	1272	806	879	837	945	601	655	666	751	479	522
150x45-E12	4.3		2140	2048	1801	1932	1944	1958	1598	1744	1801	1801	1325	1445	1375	1553	987	1076	1094	1235	787	857
150x75-E12	7.17		2703	2323	2271	2323	2389	2203	2050	2128	2184	2112	1801	1801	1801	1801	1577	1719	1747	1801	1256	1368
200x45-E12	5.74		2795	2582	2337	2441	2462	2434	1801	1801	2244	2322	1801	1801	1801	1801	1674	1801	1801	1801	1334	1453
200x63-E12	8.03		3397	2877	2765	2877	2938	2700	2442	2555	2637	2564	1801	1801	1801	2368	1801	1801	1801	1801	1801	1801
240x45-E12	6.89		3254	3104	2663	2798	2825	2903	1801	2467	2544	2720	1801	1801	1801	1801	1801	1801	1801	1801	1717	1801
300x45-E12	8.61		3721	3815	3053	3223	3257	3530	2670	2804	2901	3124	1801	2529	1801	2628	1801	1801	1801	1801	1801	1801
300x63-E12	12.05		4729	4107	4225	4107	4453	3939	3601	3601	4056	3806	3462	3601	3547	3601	1801	1801	1801	3307	1801	1801
95x45-E13	2.73		1313	1448	936	1022	1039	1176	744	811	860	972	617	672	640	722	460	501	509	575	0	0
95x63-E13	3.82		1718	1624	1225	1337	1360	1483	972	1061	1125	1272	806	879	837	945	601	655	666	751	479	522
150x45-E13	4.3		2140	2086	1801	1932	1944	1992	1598	1744	1801	1801	1325	1445	1375	1553	987	1076	1094	1235	787	857
150x75-E13	7.17		2703	2376	2271	2370	2389	2250	2050	2128	2184	2155	1801	1801	1801	1801	1577	1719	1747	1801	1256	1368
200x45-E13	5.74		2795	2649	2337	2441	2462	2494	1801	1801	2244	2376	1801	1801	1801	1801	1674	1801	1801	1801	1334	1453
200x63-E13	8.03		3397	2958	2765	2909	2938	2773	2442	2555	2637	2631	1801	1801	1801	2407	1801	1801	1801	1801	1801	1801
240x45-E13	6.89		3302	3196	2698	2835	2863	2987	1801	2497	2576	2756	1801	1801	1801	1801	1801	1801	1801	1801	1757	1801
300x45-E13	8.61		3778	3883	3121	3298	3334	3609	2724	2863	2964	3196	1801	2578	1801	2681	1801	1801	1801	1801	1801	1801
300x63-E13	12.05		4827	4185	4225	4185	4453	4012	3601	3601	4056	3875	3462	3601	3547	3601	1801	1801	1801	3307	1801	1801

Appendix A - Joist Bearing Details

Bearing Detail: 45mm Flange

AUSWOOD I-JOIST END STIFFENER
45MM FLANGE

NOTE:
DRAWINGS NOT TO SCALE



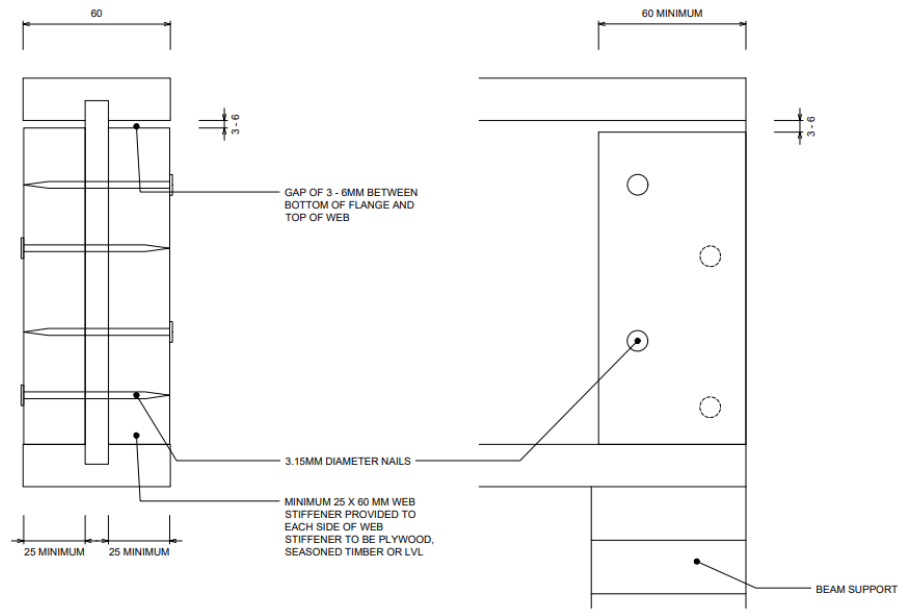
01 - BEAM END
BEARING SECTION

02 - BEAM END BEARING ELEVATION

Bearing Detail: 60mm Flange

AUSWOOD I-JOIST END STIFFENER 60MM FLANGE

NOTE:
DRAWINGS NOT TO SCALE



01 - BEAM END
BEARING SECTION

02 - BEAM END BEARING ELEVATION

