**GL17S Lintels – Sheet/Tile N3**

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| **Size** **(mm)** | **Sheet Roof Lintels - Roof load Width (m)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| **140x42** | **3.6** | **3.0** | **2.6** | **2.3** | **2.1** | **2.0** | **1.8** | **1.7** |
| **190x42** | **4.4** | **3.7** | **3.4** | **3.1** | **2.9** | **2.7** | **2.5** | **2.3** |
| **240x42** | **5.3** | **4.5** | **4.0** | **3.7** | **3.5** | **3.3** | **3.1** | **2.9** |
| **290x42** | **6.0** | **5.1** | **4.6** | **4.3** | **4.0** | **3.8** | **3.6** | **3.4** |
| **140x65** | **3.9** | **3.3** | **3.0** | **2.7** | **2.4** | **2.3** | **2.1** | **2.0** |
| **190x65** | **4.9** | **4.1** | **3.7** | **3.4** | **3.2** | **3.1** | **2.9** | **2.7** |
| **240x65** | **5.8** | **4.9** | **4.4** | **4.1** | **3.8** | **3.6** | **3.5** | **3.3** |
| **290x65** | **6.6** | **5.6** | **5.1** | **4.7** | **4.4** | **4.2** | **4.0** | **3.8** |
| **240x80** | **6.0** | **5.2** | **4.7** | **4.3** | **4.0** | **3.8** | **3.7** | **3.5** |
| **Size** **(mm)** | **Tile Roof Lintels - Roof load Width (m)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| **140x42** | **2.9** | **2.3** | **2.0** | **1.8** | **1.6** | **1.5** | **1.4** | **1.3** |
| **190x42** | **3.7** | **3.1** | **2.8** | **2.5** | **2.3** | **2.0** | **1.9** | **1.7** |
| **240x42** | **4.4** | **3.7** | **3.3** | **3.1** | **2.9** | **2.6** | **2.4** | **2.2** |
| **290x42** | **5.1** | **4.3** | **3.9** | **3.6** | **3.4** | **3.1** | **2.9** | **2.6** |
| **140x65** | **3.3** | **2.7** | **2.3** | **2.1** | **1.9** | **1.8** | **1.7** | **1.6** |
| **190x65** | **4.1** | **3.5** | **3.1** | **2.9** | **2.6** | **2.5** | **2.3** | **2.1** |
| **240x65** | **4.9** | **4.1** | **3.7** | **3.4** | **3.2** | **3.1** | **2.9** | **2.7** |
| **290x65** | **5.6** | **4.7** | **4.3** | **4.0** | **3.7** | **3.6** | **3.4** | **3.3** |
| **240x80** | **5.1** | **4.3** | **3.9** | **3.6** | **3.4** | **3.2** | **3.1** | **3.0** |

Span values are in metres

**Loading Data:**

Dead Load of roof and ceiling maximum 90 kg/m2 for tiled roofs, and 40kg/m2 for sheet roofs.
(Covers standard up to terra-cotta roof tiles, plasterboard ceiling below, roof trusses or raftered roof)
Roof Live Load of 0.25kPa.
Wind design for up to N3 wind area, in accordance with AS4055-2006 – Wind Loads for Housing.
ETH LAM GL 17 beams are manufactured straight, without any camber built into the beams.
Lintel design criteria in accordance with methods presented in AS1684.1-1999, and structural timber design in accordance with AS1720.1-2010.
All lintels are designed for single span only.

Notes:

1. Minimum bearing lengths for support of lintels: 35mm on trimmer studs. Size and width of trimmer and jamb studs is subject to loadings outside the scope of this table.
2. The span value shown is the distance between centrelines of supports.
3. Deflection criteria: for permanent load combinations, the lesser of Span/300, or 10mm, and for Roof Live Loads, the lesser of Span/250, or 15mm.
4. For lintels the lateral restraint is assumed to be a maximum of 600mm.
5. Where there are conflicts in design between loading codes (AS/NZS1170 series), timber code (AS1720.1-2010) and AS1684.1-1999, the loading codes and timber code take preference.
6. Maximum roof pitch applicable for these tables, 25 degrees.