

Keystone Lintels
Experience in
design, innovation,
and specification.

Product Standards

EN 845-2

Specification for ancillary components for masonry: Lintels

EN 846-9

Methods of test for ancillary components for masonry. Determination of flexural resistance and shear resistance of lintels

PD 6697

Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2

Product Certification

UKCA Marking: Lucideon – 1289
CE Marking: TZUS - 1020
Agrément: BBA – 98/3493
Agrément: BBA – 18/5499
Agrément: BBA – 24/7284
Agrément: BBA – 23/6860
ISO 9001: BBA – 18/Q059
ISO 14001: BBA – 18/E019
EN 1090 UKCA: BBA – 0836
EN 1090 CE: EuroFins – 0809

EN 845-2 Table C.1

L1 – Stainless Steel 316
L3 – Stainless Steel 304
L10 – Galvanised Steel 100 µm
L11 – Galvanised Steel 65 µm
L12.1 – Galvanised Steel 42 µm
L14 – Galvanised Steel 42 µm
L16.1 – Galvanised Steel 20 µm
L16.2 – Galvanised Steel 20 µm



Technical Guidance

Durability

Keystone Lintels, when installed under normal service conditions will have a life equivalent to the building in which they are incorporated, having a minimum period of **60 years**, provided it is designed, installed and maintained in accordance with our BBA Agrément Certificate.

Galvanised Lintels:

Keystone Lintels are manufactured from high quality grade pre-galvanised mild steel DX51D plus Z600 (material coating reference L14 as outlined in EN 845-2 Table C.1). As per PD 6697, Keystone galvanised steel lintels with material coating reference L14 are suitable for use in buildings in a non-aggressive environment when installed with a separate damp proof course.

Galvanised lintels, regardless of additionally applied corrosion protection systems or products, are not recommended for use in aggressive environments, e.g. coastal locations.

Stainless Steel Lintels:

Keystone Lintels are manufactured using high quality austenitic stainless steel:

- Grade 304, European Grade 1.4301/1.4307, Material coating reference L3.
- Grade 316, European Grade 1.4401/1.4404, Material coating reference L1.

As per PD 6697

- Austenitic stainless steel grades 304 and 316 are suitable for use in buildings exceeding three storeys in a non-aggressive environment.
- Austenitic stainless steel grade 316 should be used for buildings located in an aggressive environment (e.g. coastal sites).

Damp Proof Course / Cavity Tray:

A separate DPC must be provided over all steel lintels in external walls having a material/coating in accordance EN 845-2 Table C.1 (L11, L14 and L16.1).

A separate cavity tray should be installed over all steel lintels in Ireland, Northern Ireland, Isle of Man, Scotland and areas of severe or very severe exposure to wind driven rain.

Soffit Cladding:

In line with NHBC and LABC guidance, soffit cladding is often utilised as a decorative element (aesthetic purposes only) and not a weather proofing barrier. As a result, soffit cladding affixed to the external flange of a steel lintel does not offer any corrosion protection.

It is recommended that Austenitic Stainless Steel Lintels be used in buildings exceeding 3 storeys in height and all buildings in coastal locations.

For further information please contact Keystone Lintels technical team.