

Safety Data Sheet

COSHH: Product Health and Safety



Product Identification

Under the requirements of the Consumer Protection Act 1987 and the Health and Safety at Work Act 1974, please find, within this document, information regarding the handling and use of Keystone Lintels' products and any potential toxicity. Certificates of approval for products are available from the British Board of Agrément and Certificates of Conformity for Factory Production Controls are also available.

Keystone Lintels Ltd

Keystone offer the design, manufacture and supply of standard and special galvanised, stainless and structural steel lintels (insulated and non-insulated) to company and customer specifications.

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Relevant Product Uses

Keystone specialises in high grade pre-galvanised or stainless steel products for structural support, used in both internal and external masonry above window or door openings, providing load-bearing support for walls, floors and roofs. Specific lintel applications include cavity walls (Standard, Hi-Therm+), solid walls (Single Leaf, Box), timber frame and architectural features (Arch, Bay, Sun Lounge, Feature Brick, Corner, Structural Frames).

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Steel

Material Analysis

Steel Grades used to manufacture Keystone's steel lintels as listed below.

- Pre-galvanized Steel Grade DX51D Z600
- Pre-galvanized Steel Grade DX51D Z275
- Mild Steel S275R
- Mild Steel S355R
- Austenitic Stainless Steel Grade 304
- Austenitic Stainless Steel Grade 316

All components and materials in our products pose no toxicity hazard therefore are considered as non-hazardous to health under normal conditions of use as determined by COSHH Regulations 2002.

Steel lintels do not emit harmful substances whilst being stored or installed as intended.

Hazard Identification

Steel lintels can have sharp edges and corners, which may pose potential risks of cuts, abrasions or laceration of the skin. Injury may occur when breaking open the strapping due to release of tension and/or the bundle collapsing. Appropriate PPE should always be worn when handling any of the products.

Activities such as mechanical working (e.g. grinding / sanding, hot working, welding or flame cutting) may give rise to irritant dust / fumes. However, lintels should not be cut to length or modified in any way without consulting a Keystone engineer.

Some steel lintels can be heavy and difficult to manoeuvre, which may pose a risk of injury if lifted alone. To avoid lifting strains any products deemed too heavy should be lifted by at least two persons or alternatively mechanical means.

First Aid Measures

- **Skin Contact**
Cuts, abrasions, lacerations to the skin should be treated as normal. Clean the wound using clean water and use mild soap around the affected area. Remove any debris and cover the area with dressing. If required, seek medical attention.
- **Eye Contact**
In the event of a foreign object entering the eye, or from particular irritation, do not rub. Wash your hands and flush the eye whilst your head is tilted down using a gentle stream of clean water. Seek medical attention if an object is embedded in the eye or has pierced it (do not try to remove it yourself) or if you have sudden changes in vision, such as blurring or loss of sight.

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Insulation

Material Analysis

Insulation used within Keystone's steel lintels as listed below.

- EPS 70 (White)
- PlusTherm EPS 100 (Grey)
- Superglass Insulation Superwall 36
- Knauf Insulation DriTherm Cavity Slab 37

- Expanded Polystyrene:

Under normal conditions expanded polystyrene (EPS) is chemically stable and biologically inert thus the material is non-toxic. Moulded blocks of EPS manufactured in accordance with EN 13163 are used to create Keystone Lintels unique rigid insulation profiles. EPS is a dimensionally stable product under normal use, resistant to attack from bacteria, mould and fungi.

Keystone EPS inserts contain no CFCs or HCFC gases and has a zero Ozone Depletion Potential (ODP) and Global Warming Potential (GWP). EPS can be recycled at the end of its service life.

- Glass Mineral Wool:

Manufactured in accordance with EN 13162. Deemed non-combustible class A1 'No contribution to fire' per Commission decision 96/603/EC. Mineral Wool is flexible and therefore can be used as an insulating insert (friction fitting) in all Keystone Lintel cavity wall sections.

Mineral wool is durable, rot proof, water resistant and contains no ozone-depleting substances or greenhouse gases.

Hazard Identification

- Expanded Polystyrene:

EPS is non-hazardous in its finished form, biologically inert and is not known to lead to skin irritations.

- Glass Mineral Wool:

The mechanical effect of coarse fibres in contact with skin, throat or eyes may cause temporary itching.

First Aid Measures

- Skin Contact

No specific measures from contact with EPS, however, for contact with Glass Mineral Wool, rinse skin with clean water and soap.

- Eye Contact

In the event of a foreign object entering the eye, or from irritation, do not rub. Wash your hands and flush the eye whilst your head is tilted down using a gentle stream of clean water until the object is removed or until the irritation ceases. If symptoms persist seek medical attention.

For further information please contact Keystone Lintels technical team.

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Manual Handling

Handle lintels with reasonable care during unloading to avoid damage (damaged lintels must not be used).

Lintels may be handled by site personnel (except for the longer span lintels) however due care should be taken when handling lintels with regards to weight. Personnel should only handle weights that they are comfortable with as a single operative, otherwise utilise mechanical lifting devices – care must be taken to ensure any forks, slings or chains do not damage any coatings or finishes.

Storage

Handle lintels with reasonable care during stacking and storage to avoid damage (damaged lintels must not be used).

The lintels must be stored off the ground in such a manner to prevent the risk of either mechanical damage or contamination by corrosive substances.

It is considered best practice to implement a stock rotation system.

Site Safety



BUMP CAP / HARD HAT



SAFETY GLOVES



HI VISIBILITY VEST



PROTECTIVE FOOTWEAR



EYE PROTECTION

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