

## Shelf Lintels

### Prior to installation:

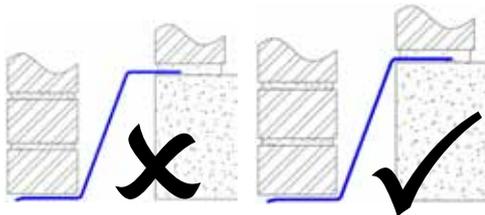
- ✓ Ensure the Lintel Width is correct for the wall; masonry should not overhang the by more than 25mm, and the hollow part of the lintel usually fits in the cavity of a wall
- ✓ Check the Lintel is structurally undamaged - has not been bent or broken & that insulation is present (if relevant)
- ✓ Ensure that the lintel length provides adequate bearing at each end, typically 150mm, but a minimum of 100mm.
- ✓ Check that it is the correct type; i.e. as specified or of the appropriate duty (refer relevant product tables)
- ✓ Check the lintel label and paperwork for additional installation information specific to your lintel

### Health & Safety

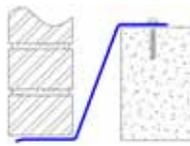
- ! These lintels are manufactured from stainless steel, the edges are much sharper than those of mild steel lintels, so the use of gloves is recommended
- ! If using a crane, protect the straps from the sharp edges
- ! OSH Lintels usually contain CFC-free polystyrene or Rockwool® insulation, MSDS sheets are available

### Preparation of bearings

- ! The lintel outer (on which the masonry is supported) should always bear onto a thin layer of bricklaying mortar, on top of full bricks or blocks at either end of the span
- ! The inner of the lintel should also bear onto a thin layer of bricklaying mortar, and must be fully supported across the full width of the inner leaf, as shown below
- ! The bearings should ensure that the lintel will be installed level both lengthways and widthways



- ! If the inner is not going to have masonry installed on top of the lintel, it is recommended that the inner be fixed to the foundation at intervals not exceeding 500mm to ensure stability of the lintel, as shown right. Holes will be required in the lintel (not provided unless specifically requested)



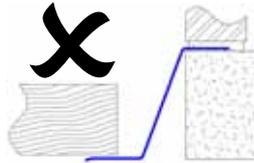
- ! In the case of a steel frame inner, suitable self drilling fasteners of at least Ø5.5mm may be used, the recommended spacing for these is 400mm

### Installation of masonry on the lintel

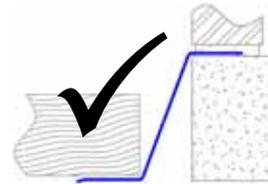
- ✓ Ensure the Lintel is centred over the opening, or installed with at least the minimum specified bearing length at the end with the shortest bearing length
- ! Cavity wall ties or similar lateral restraint should be installed as normal in accordance with BS 5628-1
- ! The masonry on the inner should be installed and allowed to cure prior to loading the outer of the lintel
- ! If no masonry in to be installed on the inner, the inner should be fastened as shown above

### Application of point loads to the lintel

- ! Both maximum 'Evenly Distributed' and permissible point loads for each lintel are listed in the specification brochure,
- ! Point loads must not exceed that stated, or cause the lintel to exceed the allowable distributed load or bending moment
- ! In the case of more than one significant point load, the point loads must be spaced at least 450mm apart
- ! Point loads must be flat on the lintel, bear over at least 50mm of the width, and be hard against the web:



OS shown, but also applies to OSH lintels



### Use of props during construction

- ! Propping of these lintels is not required unless the outer masonry is to be installed prior to the inner, or prior to fixing the inner to the frame
- ! If the outer masonry is to be installed first, the lintel should be propped until the inner masonry is cured or until the inner is fastened

### DPC Requirements

- ! All OS & OSH lintels have sufficient fall to replace a DPC by BS8215. They are supplied with separate adjustable stop ends to form in integral cavity tray. The stop ends are to be fixed to the lintel per the enclosed instruction at the appropriate location for the bricks coursing

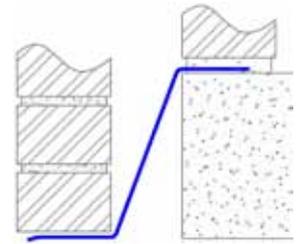
### Lintel modifications on site

- ! Site modifications may be made to the lintel providing the structural performance and regulatory compliance are not compromised. If in doubt, please contact our technical department for assistance
- ! Stainless steel drills and discs should be used for cutting and drilling, and should not be contaminated with mild steel, use of slow drilling speeds and lubricants is suggested
- ! In a damp environment, fasteners used to affix other items to these lintels should be 316 stainless

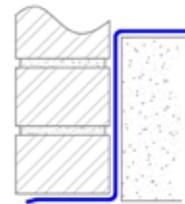
### Lintel Finish

- ! Being stainless steel, these lintels do not require protection, but cleaning to remove contaminants is recommended.
- ! The lintels may be painted if desired; use a stainless steel compatible etch primer prior to top coating.
- ! Avoid installing in close proximity to mild or galvanised steel products as galvanic corrosion of those products may occur
- ! For applications of aesthetic importance, it is recommended the lintel be cleaned as contaminants (particularly mild steel particles) on the lintel may otherwise result in staining over time

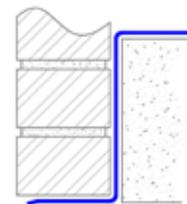
### LINTELS COVERED BY THIS GUIDELINE



**OS Lintels**  
for Standard Duty Applications



**OS Lintels**  
Are also available for zero cavity, as shown above, in this configuration they have increased load capacity



**OSH Lintels**  
for Heavy Duty Applications