

# Box Section Lintels

### Prior to installation:

- ✓ Ensure that the Lintel Width is correct; masonry should not overhang the lintel by more than 25mm
- ✓ Check the Lintel is structurally undamaged and 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)

### Health & Safety

- ! These lintels are manufactured from stainless steel, the edges are much sharper than those of mild steel lintels
- ! Use of gloves is recommended to handle the lintels
- ! The weight of some lintels may require the use of a crane; protect fabric strops from the sharp edges
- ! The lintels may contain CFC-free polystyrene or Rockwool® insulation, MSDS sheets are available

### Preparation of bearings

- ✓ The lintel should always bear onto a thin layer of bricklaying mortar, on top of full bricks or blocks
- ✓ The bearings should ensure that the lintel will be installed level both lengthways and widthways
- ✓ Heavier duty lintels may require longer bearings or padstones; refer to our technical dept. or an engineer

### Installation of masonry on the lintel

- ! Ensure the Lintel is centred over the opening, or that minimum bearing lengths are maintained
- ! Cavity wall ties should be installed above the lintel to standard masonry practice for single leaf walls
- ! For single leaf lintels we recommend allowing the bearing to cure before loading the lintel, for stability

### Use of props during construction

- ! Supported masonry should be stable and allowed to fully cure prior to adding additional loads
- ! Propping is generally not required for these lintels

### DPC Requirements

- ! These lintels are stainless steel and do not require a separate DPC for corrosion protection.
- ! There may be a requirement for a DPC in the wall for other reasons - refer to architectural details to check

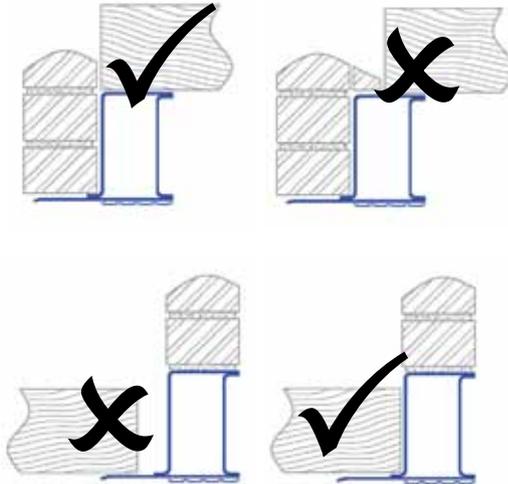
### Orientation of Lintels

- ! Lintels SB2 - SB7 may be installed upside down, or on their side if required without any loss of strength; particularly useful for masonry walls <100mm thick
- ! SB2 & SB3 lintels installed upside down ('C' open at the top) should be filled with mortar

### Application of point loads to the lintel

- ! Both maximum 'Evenly Distributed' and permissible point loads for each lintel are listed in the brochure,
- ! Point loads must not exceed that stated, or cause the lintel to exceed the allowable 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 lintel length, and must be either against the web (DB lintels) or all the way across the box section:



### Lintel modifications on site

- ! Site modifications (including welding with appropriate procedure) 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

### Lintel Finish

- ! Being stainless steel, these lintels do not require surface protection, but cleaning to remove contaminants after installation is recommended
- ! The lintels are normally supplied with plaster key on the underside to assist dry lining or rendering
- ! Fasteners used to attach other elements to the lintel in a damp environment should be Stainless Steel grade 316 or similar, lesser steels may corrode rapidly
- ! The lintels may be painted if desired; use a stainless steel 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
- ! Application of a bead of silicone or similar at the junction between the window or door frame and the lintel soffit will prevent moisture penetration at this location (if applicable).

### LINTELS COVERED BY THIS GUIDELINE



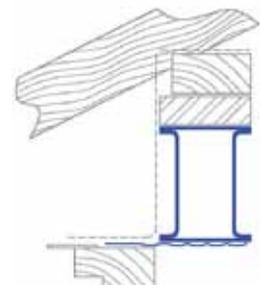
**SB2 & SB3 Lintels**  
for Light Duty Applications



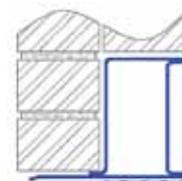
**SB5 & SB7 Lintels**  
For Standard Duty Applications



**SB14 - SB29 Lintels**  
For Heavy Duty Applications



**EB Lintels**  
For Eaves Applications



**DB Lintels**  
For double solid wall applications