

Open Section Lintels

Prior to installation:

- ✓ Ensure the Lintel width is correct for the wall; masonry should not overhang the lintel by more than 25mm
- ✓ 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 that lintel

Health & Safety

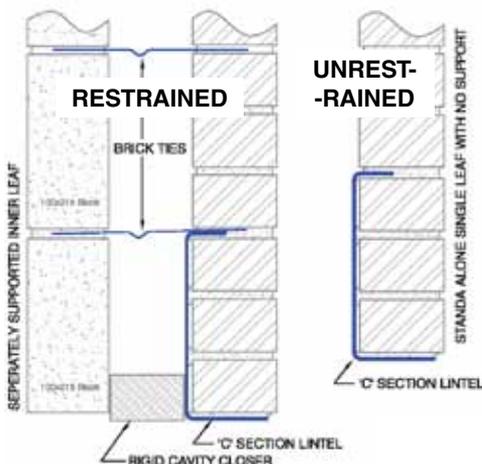
- ! Stainless steel edges are much sharper than those of mild steel lintels, so the use of gloves is recommended
- ! If using a crane, protect the strops from the sharp edges

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
- ✓ Heavy duty lintels may require longer bearings or padstones; refer to our technical dept. or an engineer

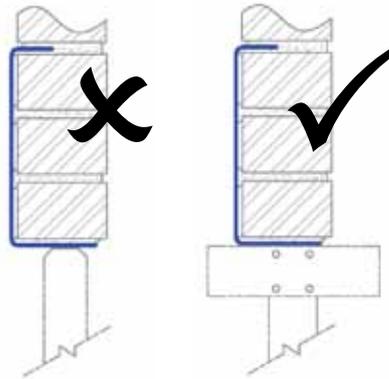
Installation of masonry on the lintel

- ✓ Ensure the Lintel is centred over the opening, if this is not possible, contact our technical department for assistance
- ! In the case of double wall lintels, the masonry on both sides of the lintel should be raised at the same time
- ! Cavity wall ties or similar lateral restraint should be installed as normal in accordance with BS 5628-1.
- ! Masonry should be fully built into the back of the SC & DC type lintels, as shown right, to achieve full load
- ! Care should be taken when installing SC & DC lintels to ensure they are appropriately restrained - If fully restrained against twisting along the full length they may carry a significantly higher load than if simply supported. Never install a simply supported lintel in a situation where full restraint has been specified.
- ! An SC or DC lintel may be considered fully restrained if it sits hard against a frame behind, and the immediate supported masonry is connected to the inner with ties or similar at regular intervals per BS 5628-1.



Use of props during construction

- ! These Lintels must be propped during construction until the supported masonry is fully cured, for all but very light loads
- ! Supported masonry should be stable and allowed to fully cure prior to adding additional load such as floors or roofs,
- ! Props should support the base of the lintel to as to prevent the lintel from twisting, see below:
- ! Note: A DPC is not required for these lintels, but may be specified by the architect for other reasons.



Lintel finish

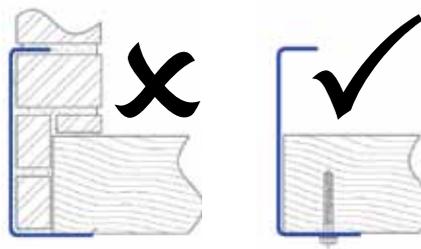
- ! Stainless steel lintels do not require surface protection, but cleaning to remove contaminants is recommended.
- ! The lintels may be painted if desired; use a stainless steel etch primer prior to top coating.
- ! Avoid installing in close proximity to mild or galvanised steel products as galvanic corrosion of those products may occur

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

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
- ! Stable point loads (such as a joist) applied to the lintel without surrounding masonry must be fastened to the lintel.
- ! Point loads must be flat on the lintel, bear over at least 50mm of the lintel length, and must be against the web:



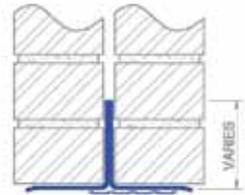
LINTELS COVERED BY THIS GUIDELINE



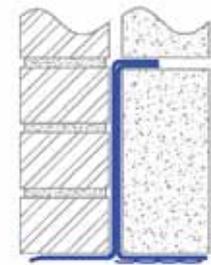
SL Lintels
for Light Duty Applications



SC Lintels
For Medium Duty Applications



DL Lintels
for Standard Duty Applications



DC Lintels
for Medium Duty Applications

