

KEYSTONE SPECIFICATION

MATERIAL

KEYSTONE LINTELS ARE MANUFACTURED FROM Z1 GRADE GALVANISED STEEL TO BS 2989: 1982 WITH A ZINC COATING TYPE G600 (H3) GIVING A MAXIMUM ZINC COATING OF 600 g/m² (INCLUDING BOTH SIDES).

INSULATION

THE KEYSTONE LINTEL CORE IS ENTIRELY FILLED WITH INJECTED FOAM INSULATION WHICH COMPLETELY FILLS ALL VOIDS IN THE LINTEL, PARTICULARLY AT THE APEX ENSURING CONTINUITY WITH WALL INSULATION AND REDUCING COLD BRIDGE EFFECT IN THIS AREA.

THIS ENSURES THAT THE KEYSTONE LINTEL RANGE IS UNDOUBTEDLY THE MOST THERMALLY EFFICIENT LINTEL AVAILABLE WITH A 'U' VALUE THROUGH THE LINTEL OF LESS THAN 0.4 w/m² °C

QUALITY

KEYSTONE LINTELS ARE MANUFACTURED TO THE HIGHEST STANDARD AND ARE CONTINUALLY ASSESSED BY THE BSI TO ENSURE OUR QUALITY ASSURANCE SYSTEMS COMPLY WITH BS 5750.

STRUCTURAL PERFORMANCE

THE KEYSTONE LINTEL RANGE HAVE SAFE WORKING LOADS SHOWN IN EACH APPLICABLE LOADING TABLE, TAKING INTO ACCOUNT THE DIFFERENTIAL LOADING ARRANGEMENTS WHICH ARE COMMON TO TRADITIONAL CAVITY WALL CONSTRUCTION: –

DIFFERENTIAL LOAD 1– 3:1 RATIO, ie. 75% LOAD ON INNER LEAF.

DIFFERENTIAL LOAD 2– 19:1 RATIO, ie. 95% LOAD ON INNER LEAF.

THE LOAD BEARING CAPACITY OF EACH LINTEL HAS BEEN DETERMINED BY MEANS OF RIGOROUS TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF BS5977: PART 2 1983, IN A MANNER AGREED WITH THE BRITISH BOARD OF AGREEMENT.

INSTALLATION

LINTELS SHOULD BE INSTALLED WITH A MINIMUM END BEARING OF 150mm BEDDED IN MORTAR, LEVELLED ALONG ITS LENGTH AND ACROSS ITS WIDTH. WITH CAVITY WALLS, BOTH LEAVES SHOULD BE RAISED TOGETHER TO AVOID EXCESSIVE ECCENTRICITY OF LOADING AND BE ALLOWED TO CURE BEFORE APPLYING FLOOR OR ROOF LOADS.

BLOCKWORK IS PERMITTED TO OVERHANG THE LINTEL FLANGE BY A MAXIMUM 25mm.

POINT LOADS AND CONCRETE FLOOR UNITS SHOULD NOT BE APPLIED WITHOUT PRIOR CONSULTATION WITH OUR TECHNICAL DEPARTMENT OR A STRUCTURAL ENGINEER.

CARE SHOULD ALSO BE EXERCISED IN THE SELECTION OF LINTELS FOR EACH APPLICATION WITH REGARD TO WALL CONSTRUCTION, CAVITY WIDTH AND LOADS APPLIED.

A SEPERATE FLEXIBLE DPC SHOULD BE INSTALLED WITH ALL LINTELS IN EXTERNAL CAVITY WALLS.