

## LINTEL COMPARISON CHART

KEYSTONE: <b>Supergalv</b>		
KEYSTONE	BIRTLEY	REMARKS
B/K	LT range	Check cavity widths eg LT50, LT70 etc
BOX/K-60	SB100	SB100 up to 1500, INT75HD 1650-1800
BOX/K-75	SB100	SB100 up to 1500, INT100HD 1650-1800
BOX/K-100	SB100	* Check safe loads/lengths
BOX/K-150	SB140	
BOX/K-200	SBL200	* Check safe loads/lengths
CFS/K-50	HS50	
CFS/K-50 WIL	HS50/130	
CFS/K-70	HS70	
CFS/K-70 WIL	HS70/130	
CFS/K-90	HS90	
CFS/K-90 WIL	HS90/130	
CFS/K-110	HS110	
CFS/K-130	HS125	
CFS/K-150	HS150	
EL/K-50	CBEV50	* Check safe loads /lengths
EL/K-90	CBEV90	* Check safe loads/lengths
HDBOX/K-100	SB100HDX	Also consider SB100HD
HDBOX/K-150	SB140HDX	Also consider SB140HD
HDBOX/K-200	SBL200HD	Also consider DC200
HD/K-50	CB50HD	* Check safe loads/lengths
HD/K-50 WIL	No equivalent	Consider HD50/130
HD/K-70	CB70HD	* Check safe loads/lengths
HD/K-70 WIL	No equivalent	Consider HD70/130
HD/K-90	CB90HD	* Check safe loads/lengths
HD/K-90 WIL	No equivalent	Consider HD90/130
HD/K-110	No equivalent	Consider HD110
HD/K-130	No equivalent	Consider HD125
HD/K-150	No equivalent	Consider HD150
HDTW/K-215		Thin Joint. Check with Technical Dept
IB/K [2C]		Check with Technical Dept
IB/K [3C]	DC200	
IBX/K	SW200	
INT/K-100	INT100	
ITW/K-215		Thin Joint. Check with Technical Dept

\* Safe load figures differ between Keystone & Birtley at certain lengths. Check current load tables & upgrade to stronger lintel if necessary.

CATNIC: <b>Supergalv</b>		
CATNIC	BIRTLEY	REMARKS
CG50/100	CB50	
CH50/100	AT50	Use HS50 lengths 2100
CX50/100	HS50	
CG50/125	CB50/130	
CH50/125	AT50/130	Use HS50/130 lengths 2100 - 2400
CX50/125	HS50/130	
CG70/100	CB70	
CH70/100	AT70	Use HS70 lengths 2100 - 2400
CX70/100	HS70	
CG70/125	CB70/130	
CH70/125	AT70/130	Use HS70/130 lengths 2100 - 2400
CX70/125	HS70/130	
CG90/100	CB90	
CH90/100	AT90	Use HS90 lengths 2100 - 2400
CX90/100	HS90	
CG90/125	CB90/130	
CH90/125	AT90/130	Use HS90/130 lengths 2100 - 2400
CX90/125	HS90/130	
CG110/100	CB110	
CH110/100	AT110	Use HS110 lengths 2100 - 2400
CX110/100	HS110	
CG130/100	CB125	
CH130/100	AT125	Use HS125 lengths 2100 - 2400
CX130/100	HS125	
CG150/100	CB150	
CH150/100	AT150	Use HS150 lengths 2100 - 2400
CX150/100	HS150	
CGE50/100	CBEV50	* Check safe loads/lengths
CGE90/100	CBEV50	* Check safe loads/lengths
CN5XA	SB100HD	* Check safe loads/lengths
CN5XC	SB100HDX	
CN6XB	SB100HD	Use SB100 lengths 2850 & longer
CN6XC	SB100HDX	Use SB100HD lengths 2850-3600
CN23B	TF50HD	
CN23C	TF50HD	
CN42C	HD150/50/100	
CN48C	EV100	
CN49C	EV100	
CN50C	OB190	
CN51C	OB190	
CN55A	No equivalent	Consider SBL200
CN55C	No equivalent	Consider SBL200HD
CN56XA	SB140	
CN66XC	SB140HDX	Use SB140HD lengths 2850-3600
		Use SB140 lengths 3900-4800
CN71A	SBL200	* Check safe loads/lengths
CN71C	No equivalent	Consider SBL200 HD or DC200
CN81B	SBL200	* Check safe loads/lengths
CN81C	SBL200HD	* Check safe loads/lengths
		Use SBL200 3600-4800
CN92	INT75HD	
CNZ94A	MBL	
CNZ94C	LA	
CNZ95C	LA	
CNZ96C	LA	
CNZ97C	LA	
CN100	INT100HD	
CN99/124C	HD150/70/100	
CN99/394C	No equivalent	Check with Technical Dept
CN99/436C	No equivalent	Check with Technical Dept
CN99/438C	No equivalent	Check with Technical Dept
CN99/1644C	HD150/90/100	
CTF5	TF50	
CTF7	TF70	
CTF9	TF90	

Note: These conversions only apply within the length ranges published in the Catnic brochure. For lintel references in lengths longer or shorter than those shown in the Catnic literature contact Technical Department for advice.

CATNIC	BIRTLEY	REMARKS
CXL240	SX50	
CXL265	SX70	
CXL290	SX90	
CXL315	SX110	
CXL340	SX140	
CCA/600	Special Semicircle	
CCA/630	Special Semicircle	
CCA/900	Special Semicircle	
CCA/915	Special Semicircle	
CCA/1200	Special Semicircle	
CCB/600	Special Semicircle	
CCB/630	SC630	
CCB/900	SC900	
CCB/915	SC915	
CCB/1200	SC1200	
ACA0475	475 ARCHFORM	
ACA0625	615 ARCHFORM	
ACA0925	925 ARCHFORM	
ACA1050	1050 ARCHFORM	
ACA1225	1225 ARCHFORM	
ACA1350	1350 ARCHFORM	
ACA1485	1485 ARCHFORM	
ACA1625	1625 ARCHFORM	
ACA1700	1675 ARCHFORM	
ACA1785	1785 ARCHFORM	
ACB1975	1950 ARCHFORM	
ACB2125	2125 ARCHFORM	
ACB2250	2250 ARCHFORM	
ACB2325	2325 ARCHFORM	
ACB2425	2420 ARCHFORM	

STEELITE: <b>Supergalv</b>		
STEELITE	BIRTLEY	REMARKS
A	CB90	Check safe loads
Box 200	SBL200	
CL	HS90	
CL225 IL	HS90/200	
FPK	CB90MF	
HD	CB90HD	3300 & longer use HD90
L25	LA	
L25/J	LASP1	
L26	TF90	
L31	OB190	
L38	TF90HD	
L43	OB200HD	
S	CBST90	Check safe loads
XCL	XHD90	
XCL 225 I/L	XHD90/200	
XL43	SW200	
225 I/L	CB90/200	

Note: All conversions are listed for 100 cavity width. Steelite references are not cavity specific. If cavity width is other than 100 substitute appropriate Birtley lintels eg CB50, CB70 etc.

This chart is intended as a guide only. Safe load figures and wall construction range may vary from manufacturer to manufacturer. Always check catalogues to ensure suitability when making a comparison.



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## LINTEL COMPARISON CHART

IG: **Supergalv**

IG	BIRTLEY	REMARKS	IG	BIRTLEY	REMARKS
BOX 75	SB100	1650-1800 INT75HD or INT100HD	L1/HD WIL 50	HD50/130	
BOX 100	SB100	* Check safe loads/lengths	L1/HD WIL 75	HD70/130	
BOX 140	SB140		L1/HD WIL 100	HD90/130	
BOX 200	SBL200	* Check safe loads/lengths	L1/XHD WIL 50	HD50/130	
			L1/XHD WIL 75	HD70/130	
			L1/XHD WIL 100	HD90/130	
HD BOX 100	SB100HDX	Use SB100HD lengths 1950 & longer	L1/S WOL 50	CB150/50/100	
HD BOX 140	SB140HDX	Use SB140HD lengths 1950 & longer	L1/S WOL 75	CB150/70/100	
HD BOX 200	SBL200HD	Also consider DC200	L1/S WOL 100	CB150/90/100	
			L1/E 50	CBEV50	
			L1/E 75	No equivalent	CBEV50 [to 85 cavity] CBEV90
			L1/E WIL50	CBEV50/130	
INT 64	INT75HD		L5/50	HS50	
INT 100	INT100		L5/75	HS70	
			L5/100	HS90	
			L6/50	XHD50	Also consider SX50
			L6/75	XHD70	Also consider SX70
			L6/100	XHD90	Also consider SX90
			L7/50	TF50	
			L7/75	TF70	
			L8/50	LT50	
			L9	OB190	
			L10	LA	
			L11	EV100	

\* Safe load figures differ between IG & Birtley at certain lengths. Check current load tables and upgrade to stronger lintel if necessary.



### Recommendations for the installation of concrete floors with steel lintels

The following are guidelines to the safe installation of concrete floor units on steel lintels.

This list is not intended to be exhaustive and should in no way be considered as replacement for any national or European Standard.

- A. Check that the correct lintel has been installed according to the manufacturers schedule.
- B. Avoid shock loading of lintels during the installation of concrete floor units and also any sideways loading while being lifted into position
- C. Avoid loading newly laid floors with building materials.
- D. Raise both levels of cavity walls together and allow masonry to cure sufficiently before applying heavy loads. Alternatively prop the lintel if large loads are to be applied to fresh masonry.
- E. Bed the lintel on full blocks and allow mortar to cure.
- F. Check that the masonry over the lintel is properly installed and allow no more than 10 - 12mm between the masonry and lintel upstand. The gap should be filled with mortar
- G. Ensure that the composite part of any composite lintel is fully filled with well-jointed masonry and allow to cure.
- H. Precast flooring units should be laid on a mortar bearing of the full wall width and should not be dragged over supports.

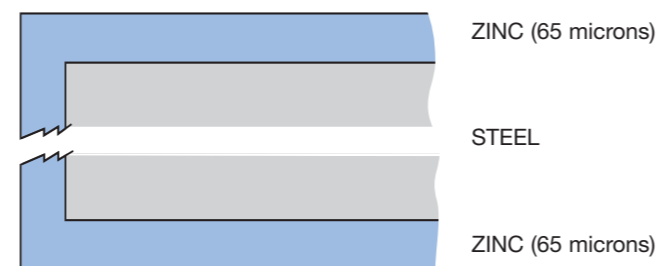
All of the lintel manufacturers include installation guidelines with their literature and these should also be followed.

Produced and distributed by members of the Steel Lintel Manufacturers Association, P.O. Box 10, Newport, South Wales, NP9 0XN.

## CORROSION PROTECTION SYSTEMS **Supergalv**

### HOT-DIP GALVANIZED AFTER MANUFACTURE

HOT DIP GALVANIZED AFTER MANUFACTURE  
ZINC COATING WEIGHT: 920g/m<sup>2</sup> (inc. both sides)



The hot dip galvanising process applied after manufacture protects all surfaces, edges, welds, holes etc with an equal level of resistance to corrosion.

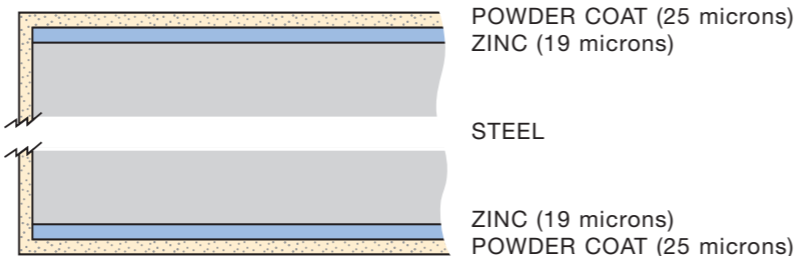
The life of the galvanized coating is directly proportional to the coating thickness.

To determine the life expectancy for any geographical + location see "The Engineers and Architects Guide to Hot-Dip Galvanizing" published by the Galvanizers Association, or contact our technical department.

DIAGRAMS ARE NOT TO SCALE. BUT ARE PROPORTIONAL TO EACH OTHER.

### PREGALVANIZED SHEET AND POWDER COATING

PREGALVANIZED SHEET  
ZINC COATING WEIGHT: 275g/m<sup>2</sup> (inc. both sides)  
POWDER COATING TO ALL SURFACES



The zinc coating protects top and bottom surfaces only.

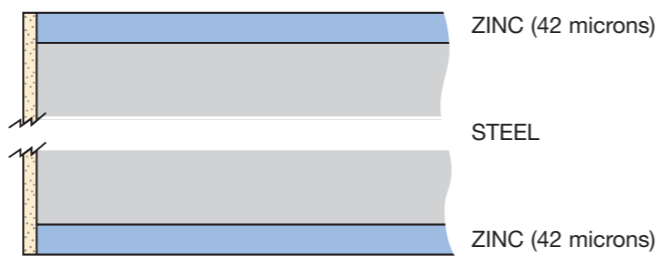
The zinc coating will be thinner on the external side of bends where steel is stretched.

Vulnerable edges are only protected by powder coating.

DIAGRAMS ARE NOT TO SCALE. BUT ARE PROPORTIONAL TO EACH OTHER.

### PREGALVANIZED SHEET

PREGALVANIZED SHEET  
ZINC COATING WEIGHT: 600g/m<sup>2</sup> (inc. both sides)  
PAINT COATING TO CUT EDGES ONLY



The zinc coating protects top and bottom surfaces only.

The zinc coating will be thinner on the external side of bends where steel is stretched.

Vulnerable edges are only protected by paint coating.

DIAGRAMS ARE NOT TO SCALE. BUT ARE PROPORTIONAL TO EACH OTHER.

### USE OF AN ADDITIONAL DAMP PROOF TRAY

BS EN 845-2: 2001, which has recently replaced BS 5977 part 2: 1983, lists various methods of corrosion protection which all of the above will satisfy, but states "The corrosion protection required in any individual application will depend on the type of lintel, whether a separate damp proof system is used and the degree of exposure and the climatic conditions".

N.H.B.C. requires the use of an additional cavity tray in Scotland, Northern Ireland, The Isle of Man and areas of severe or very severe exposure. An additional D.P.C. will also be required on all external cavity wall lintels less than 140 in height.

BS 5628-3: 2001. the code of practice for use of masonry, will require the use of an additional damp proof tray on all external cavity wall lintels less than 150 in height (clause 5.5.7.2).

To ensure compliance we strongly recommend the use of an additional damp proof tray over all lintels in external cavity walls.



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