

## LINTEL COMPARISON CHART

IG: **Supergalv**

IG	BIRTLEY	CATALOGUE PAGE	REMARKS	IG	BIRTLEY	CATALOGUE PAGE	REMARKS
BOX 75	SB_100	26	1650-1800 INT_75_HD or INT_100_HD	L1/HD WIL 50	HD_50/130	20	
BOX 100	SB_100	26	* Check safe loads/lengths	L1/HD WIL 75	HD_70/130	21	
BOX 140	SB_140	26		L1/HD WIL 100	HD_90/130	22	
BOX 200	SBL_200	27	* Check safe loads/lengths				
HD BOX 100	SB_100_HDX	26	Use SB_100_HD lengths 1950 & longer	L1/XHD WIL 50	HD_50/130	20	
HD BOX 140	SB_140_HDX	26	Use SB_140_HD lengths 1950 & longer	L1/XHD WIL 75	HD_70/130	21	
HD BOX 200	SBL_200_HD	27	Also consider DC_200	L1/XHD WIL 100	HD_90/130	22	
INT 64	INT_75_HD	30		L1/S WOL 50	CB_150/50/100	24	
INT 100	INT_100	30		L1/S WOL 75	CB_150/70/100	21	
				L1/S WOL 100	CB_150/90/100	22	
				L1/E 50	CB_EV_50	24	
				L1/E 75	No equivalent		CB_EV_50 [to 85 cavity] CB_EV_90
L1/S 50	CB_50	14		L5/50	HDX_50	14	Use HD_50 lengths 2250-4200
L1/S 75	CB_70	15		L5/75	HDX_70	15	Use HD_70 lengths 2250-4200
L1/S100	CB_90	16		L5/100	HDX_90	16	Use HD_90 lengths 2250-4200
L1/S110	CB_110	17					
L1/S 130	CB_125	18		L6/50	XHD_50	23	Also consider SX_50
L1/S 150	CB_150	19		L6/75	XHD_70	23	Also consider SX_70
				L6/100	XHD_90	23	Also consider SX_90
L1/HD 50	CB_50_HD	14	* Check safe loads/lengths	L7/50	TF_50	29	
L1/HD 75	CB_70_HD	15	* Check safe loads/lengths	L7/75	TF_70	29	
L1/HD 100	CB_90_HD	16	* Check safe loads/lengths				
L1/XHD 50	HD_50	14		L8/50	LT_50		
L1/XHD 75	HD_70	15					
L1/XHD 100	HD_90	16		L9	OB_190	27	
L1/S WIL 50	CB_50/130	20		L10	LA	28	
L1/S WIL 75	CB_70/130	21					
L1/S WIL 100	CB_90/130	22		L11	EV_100	28	

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

**SLMA**  
Steel Lintel Manufacturers Association

### 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.

- Check that the correct lintel has been installed according to the manufacturers schedule.
- Avoid shock loading of lintels during the installation of concrete floor units and also any sideways loading while being lifted into position
- Avoid loading newly laid floors with building materials
- 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.
- Bed the lintel on full blocks and allow mortar to cure.
- 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
- Ensure that the composite part of any composite lintel is fully filled with well-jointed masonry and allow to cure.
- Precast flooring units should be laid on a mortar bearing of the full wall width and should not be dragged over supports.

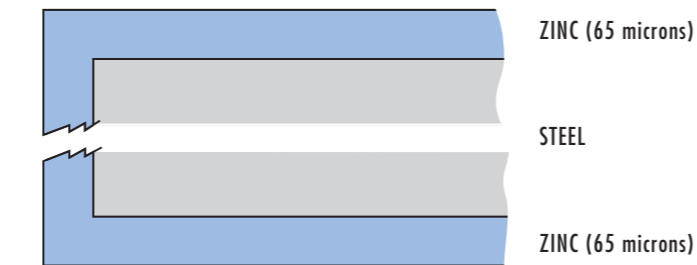
All of the lintel manufacturers include installation guidelines with their literature and these should also be followed.

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

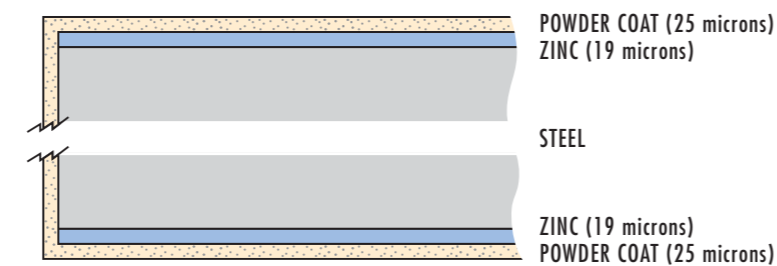
The life of the galvanized coating is directly proportional to the coating thickness.

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.

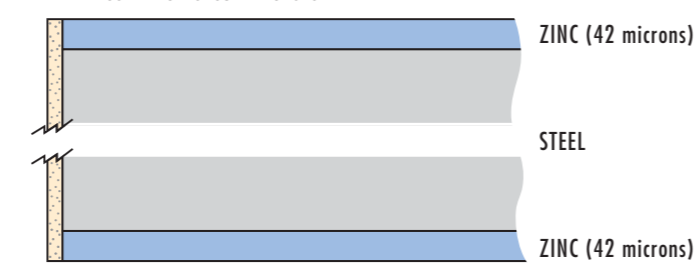
The zinc coating will be thinner on the external side of bends where steel is stretched.

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.

There's an **MKM** near you...



OPEN TO TRADE & PUBLIC - MONDAY TO SATURDAY

for your nearest branch call **08701 222 656** or visit [www.mkmb.co.uk](http://www.mkmb.co.uk)

**Supergalv**

# LINTEL COMPARISON

January 2008

**MKM**  
BUILDING SUPPLIES

"My Kind of Merchant"

## LINTEL COMPARISON CHART

### KEYSTONE: Supergalv

KEYSTONE	BIRTLEY	CATALOGUE PAGE	REMARKS
B/K	LT range		Check cavity widths eg LT_50, LT_70 etc
BOX/K-60	SB_100	26	SB_100 up to 1500, INT_75_HD 1650-1800
BOX/K-75	SB_100	26	SB_100 up to 1500, INT_100_HD 1650-1800
BOX/K-100	SB_100	26	* Check safe loads/lengths
BOX/K-150	SB_140	26	
BOX/K-200	SBL_200	27	* Check safe loads/lengths
CFS/K-50	HD_50	14	Use HDX_50 up to 2100 long
CFS/K-50 WIL	HD_50/130	20	
CFS/K-70	HD_70	15	Use HDX_70 up to 2100 long
CFS/K-70 WIL	HD_70/130	21	
CFS/K-90	HD_90	16	Use HDX_90 up to 2100 long
CFS/K-90 WIL	HD_90/130	22	
CFS/K-110	HD_110	17	
CFS/K-130	HD_125	18	
CFS/K-150	HD_150	19	
EP/K-50	CB_EV_50	24	* Check safe loads /lengths
EP/K-90	CB_EV_90		* Check safe loads/lengths
HDBOX/K-100	SB_100_HDX	26	Also consider SB_100_HD
HDBOX/K-150	SB_140_HDX	26	Also consider SB_140_HD
HDBOX/K-200	SB_L200_HD		Also consider DC_200
HD/K-50	CB_50_HD	14	* Check safe loads/lengths
HD/K-50 WIL	No equivalent		Consider HD_50/130
HD/K-70	CB_70_HD	15	* Check safe loads/lengths
HD/K-70 WIL	No equivalent		Consider HD_70/130
HD/K-90	CB_90_HD	16	* Check safe loads/lengths
HD/K-90 WIL	No equivalent		Consider HD_90/130
HD/K-110	No equivalent		Consider HD_110
HD/K-130	No equivalent		Consider HD_125
HD/K-150	No equivalent		Consider HD_150
HDTW/K-215			Thin Joint. Check with Tech.Dept
IB/K [2C]			Check with Tech.Dept.
IB/K [3C]	DC_200	27	
IBX/K	SW_200		
INT/K-100	INT_100	30	
ITW/K-215			Thin Joint. Check with Tech.Dept.

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

### CATNIC: Supergalv

CATNIC	BIRTLEY	CATALOGUE PAGE	REMARKS
CG 50/100	CB_50	14	
CGH50/100	CB_50_HD	14	* Check safe loads/lengths
CLA50/100	AT_50	25	
CLB50/100	HD_50	14	
CUB50/100	ATX_50		
CU 50/100	HDX_50	14	Use HD_50 lengths 3300 & longer
CG 50/125	CB_50/130	20	
CGH50/125	No equivalent		Consider HD_50/130 or AT_50/130
CLA50/125	AT_50/130		
CLB50/125	HD_50/130	20	
CUB50/125	ATX_50/130		
CU 50/125	HDX_50/130	20	Use HD_50/130 lengths 3300 & longer
CG 70/100	CB_70	15	
CGH70/100	CB_70_HD	15	* Check safe loads/lengths
CLA70/100	AT_70	25	
CLB70/100	HD_70	15	
CUB70/100	ATX_70		
CU 70/100	HDX_70	15	Use HD_70 lengths 3300 & longer
CG 70/125	CB_70/130	21	
CGH70/125	No equivalent		Consider HD_70/130 or AT_70/130
CLA70/125	AT_70/130		
CLB70/125	HD_70/130	21	
CUB70/125	ATX_70/130		
CU 70/125	HDX_70/130	21	Use HD_70/130 lengths 3300 & longer
CG 90/100	CB_90	16	
CGH90/100	CB_90_HD	16	* Check safe loads/lengths
CLA90/100	AT_90	25	
CLB90/100	HD_90	16	
CUB90/100	ATX_90		
CU 90/100	HDX_90	16	Use HD_90 lengths 3300 & longer
CG 90/125	CB_90/130	22	
CGH90/125	No equivalent		Consider HD_90/130 or AT_90/130
CLA90/125	AT_90/130		
CLB90/125	HD_90/130	22	
CUB90/125	ATX_90/130		
CU 90/125	HDX_90/130	22	Use HD_90/130 lengths 3300 & larger
CGE50/100	CB_EV_50	24	* Check safe loads/lengths
CGE50/125	CB_EV_50/130		* Check safe loads/lengths
CGE90/100	CB_EV_90		* Check safe loads/lengths
CGE90/125	No equivalent		Consider CB_50/130

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	CATALOGUE PAGE	REMARKS
CN5XA	SB_100_HD	26	* Check safe loads/lengths
CN5XC	SB_100_HDX	26	
CN6XB	SB_100_HD	26	Use SB_100 lengths 2850 & longer
CN6XC	SB_100_HDX	26	Use SB_100_HD lengths 2850-3600 Use SB_100 lengths 3900-4800
CN23B	TF_50_HD	29	
CN23C	TF_50_HD	29	
CN42C	HD_150/50/100	24	
CN48C	EV_100	28	
CN49C	EV_100	28	
CN50C	OB_190	27	
CN51C	OB_190	27	
CN55A	No equivalent		Consider SB_L200
CN55C	No equivalent		Consider SB_L200_HD
CN56XA	SB_140	26	
CN66XC	SB_140_HDX	26	Use SB_140_HD lengths 2850-3600 Use SB_140 lengths 3900-4800
CN71A	SB_L200	27	* Check safe loads/lengths
CN71C	No equivalent		Consider SB_L200 HD or DC_200
CN81B	SB_L200	27	* Check safe loads/lengths
CN81C	SB_L200_HD		* Check safe loads/lengths Use SB_L200 3600-4800
CN92	INT_75_HD		
CNZ94A	MBL		
CNZ94C	LA	28	
CNZ95C	LA	28	
CNZ96C	LA	28	
CNZ97C	LA	28	
CN100	INT_100_HD	30	
CN99/124C	HD_150/70/100		
CN99/394C	No equivalent		Check with Technical Dept
CN99/436C	No equivalent		Check with Technical Dept
CN99/438C	No equivalent		
CTF5	TF_50	29	
CTF6	No equivalent		Consider TF_50
CTF7	TF_70		

CATNIC	BIRTLEY	CATALOGUE PAGE	REMARKS
CXL240	SX_50	23	
CXL265	SX_70		
CXL290	SX_90		
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	SC_630		
CCB/900	SC_900		
CCB/915	SC_915		
CCB/1200	SC_1200		
ACA0475	475 ARCHFORM	31	
ACA0625	615 ARCHFORM	31	
ACA0925	925 ARCHFORM	31	
ACA1050	1050 ARCHFORM	31	
ACA1225	1225 ARCHFORM	31	
ACA1350	1350 ARCHFORM	31	
ACA1485	1485 ARCHFORM	31	
ACA1625	1625 ARCHFORM	31	
ACA1700	1675 ARCHFORM	31	
ACA1785	1785 ARCHFORM	31	
ACB1975	1950 ARCHFORM	31	
ACB2125	2125 ARCHFORM	31	
ACB2250	2250 ARCHFORM	31	
ACB2325	2325 ARCHFORM	31	
ACB2425	2420 ARCHFORM	31	

### STEELITE: Supergalv

STEELITE	BIRTLEY	CATALOGUE PAGE	REMARKS
A	CB_90	16	Check safe loads
Box 200	SB_L200	27	
CL	HD_90	16	
CL225 IL	HD_90/200		
FPK	CB_90_MF		
HD	CB_90_HD	16	3300 & longer use HD_90
L25	LA	28	
L25/J	LA_SP1		
L26	TF_90		
L31	OB_190	27	
L38	TF_90_HD		
L43	OB_200_HD		
S	CB_ST_90		Check safe loads
XCL	XHD_90		
XCL 225 I/L	XHD_90/200		
XL43	SW_200		
225 I/L	CB_90/200		

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 CB\_50, CB\_70 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.



[www.birtley-building.co.uk](http://www.birtley-building.co.uk) / [www.lintels.com](http://www.lintels.com)