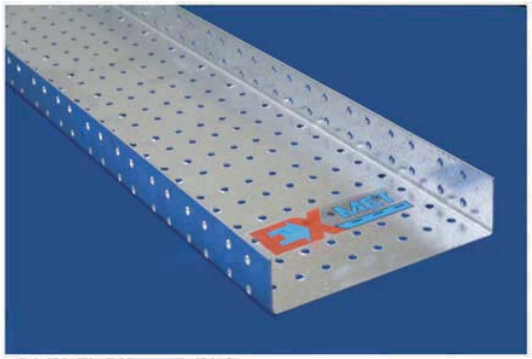
STEEL LINTELS

EXMET Steel Lintels are manufactured according to BS 5977 : Part 2: 1983. The design procedure which was followed by our technical department is the LRFD method by (American Institute of Steel Construction) (AISC) 1st edition 1993 second printing.

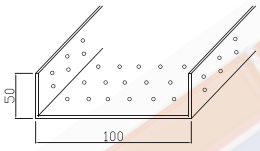
Advantages of using EXMET steel Lintels than the conventional method:



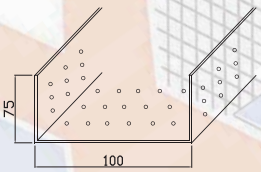
- No need for lifting equipment.
- Saving the time for the contractor.
- Ready design by our technical department.
- Our steel lintels are resistant to corrosion and have good adhesion to plaster by the perfortions.
- Brackets for column fixing save the time efficiently.

Materials:

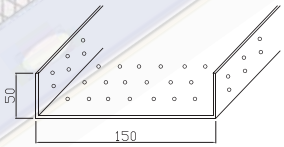
1. Pre-galvanized steel: According to BS EN 10327 - DX 51 D + Z275 (revised of BS 2989)
2. Hot dip galvanized steel after fabrication according to BS 729: 1971.
3. Stainless Steel: According to BS EN 10088-2-5 grade 304 (equivalent to BS 1449)
4. Powder coated steel, mild steel to BSEN 10327, then coating by polyester / epoxy powder.



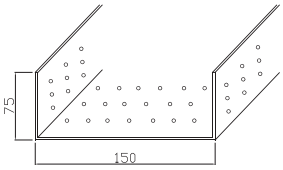
LW 100 - 50



LW 100 - 75



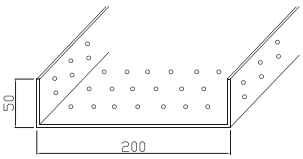
LW 150 - 50



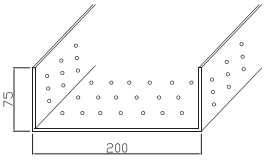
LW 150 - 75

Lintel Type	LW 100 - 50		LW 100 - 75	LW 150 - 50		LW 150 - 75	
Sheet Thickness (mm)	2.0	3.0	3.0	2.0	3.0	2.0	3.0
Length of opening(m)	**Maximum Distributed Dead Loads (kg)**						
Up to 1.00	451	661	2,059	483	718	1,085	1,607
1.05 - 1.30	267	391	1,218	304	445	834	1,236
1.35 - 1.60	176	258	804	200	293	621	912
1.65 - 1.90	125	183	570	142	208	440	647
1.95 - 2.20	81	119	371	92	135	286	420
2.25 - 2.55	--	81	253	--	92	195	287

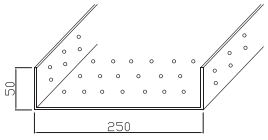
Factor of Safety is already applied in calculations.



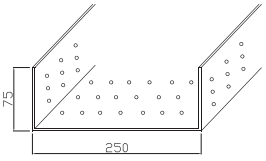
LW 200-50



LW 200-75



LW 250-50



LW 250-75

Lintel Type	LW 200 - 50		LW 200 - 75		LW 250 - 50		LW 250 - 75
Sheet Thickness (mm)	2.0	3.0	2.0	3.0	2.0	3.0	3.0
Length of opening(m)	Maximum Distributed Dead Loads (kg)						
Up to 1.00	490	733	1,093	1,627	479	749	1,645
1.05 - 1.30	328	479	841	1,251	344	504	1,264
1.35 - 1.60	216	316	673	990	227	332	1,028
1.65 - 1.90	153	224	477	702	161	236	743
1.95 - 2.20	99	146	310	457	105	153	483
2.25 - 2.55	--	99	211	311	-	104	329

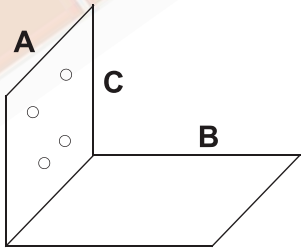
Factor of Safety is already applied in calculations.

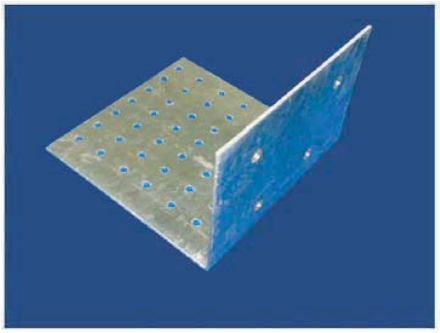
Installation

1) Provide a minimum of 20 cm at each side as an end bearing except areas where columns are at the edge of the opening, Angle brackets will be supplied in such cases.
2) Lintels should not be cut down in the site.
3) Damaged or used Lintels should not be used.

Lintel Bracket Angles:

Used to support lintels at column or edges.





Type Code	Dimensions (mm) A	B	C	Used With Lintel	Minimum required Anchors
LA - 100	100	170	145	LW 100	4M8*
LA - 150	150	190	145	LW 150	4M8*
LA - 200	200	200	145	LW 200	4M10*
LA - 250	250	200	145	LW 250	4M10*

* Please consult our technical department to design the requirments of Anchor Bolts as well as thickness required for the angle.