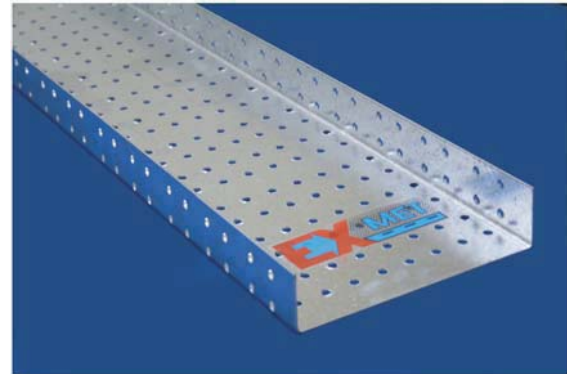


## STEEL LINTELS

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.

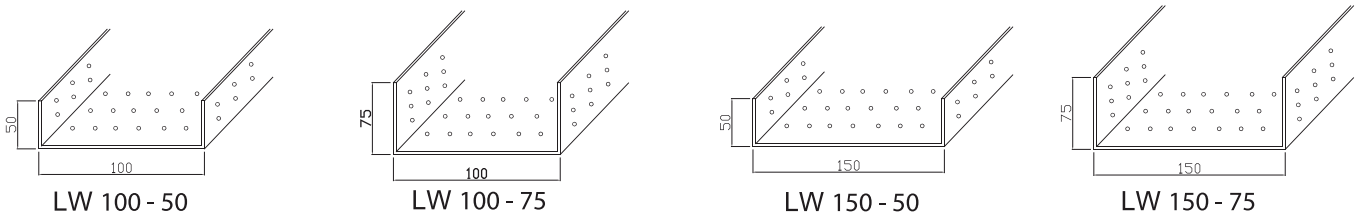
### Advantages of using EXMET steel Lintels than the conventional method:

- 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 perforations.
- Brackets for column fixing save the time efficiently.



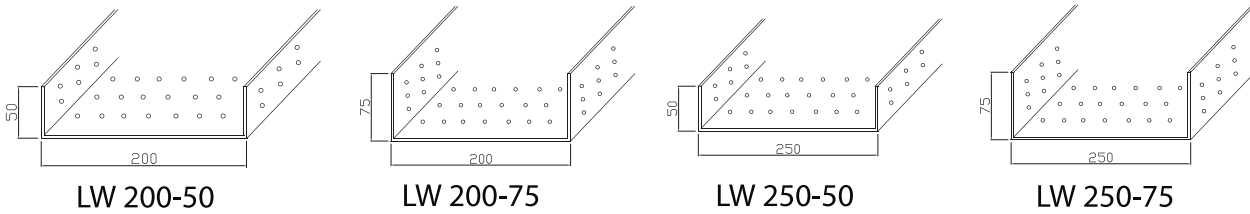
### Materials:

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.



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)	<b>Maximum Distributed Dead Loads (kg)</b>						
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.**



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)	<b>Maximum Distributed Dead Loads (kg)</b>						
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

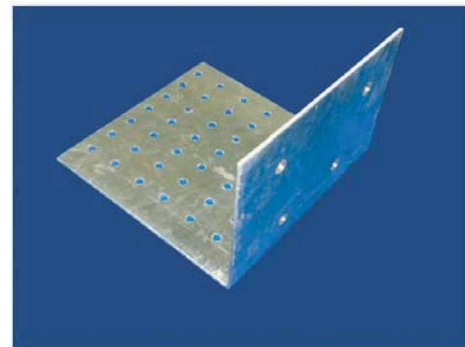
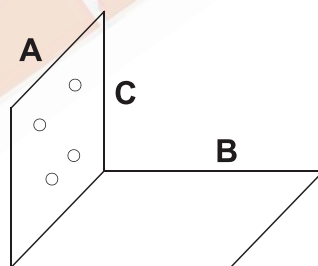
Factor of Safety is already applied in calculations.

### 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)			Used With Lintel	Minimum required Anchors
	A	B	C		
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 requirements of Anchor Bolts as well as thickness required for the angle.