

Outer leaf support for framed buildings

OS Lintel Range

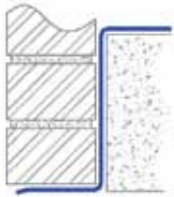
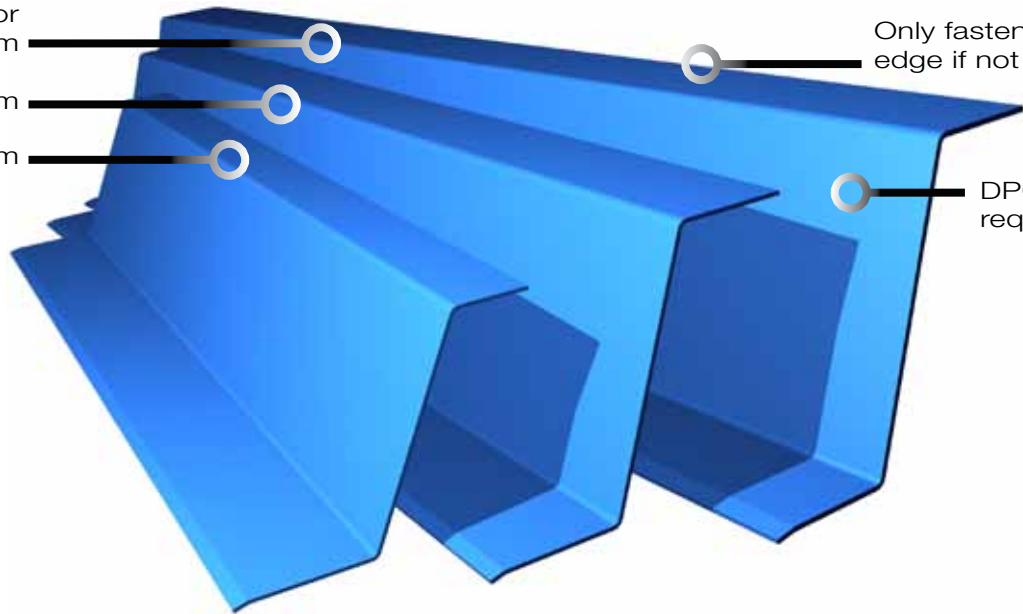
Gauge matches size for economy: OS4: 4.0mm

OS3: 3.0mm

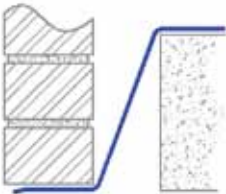
OS2: 2.0mm

Only fasten top edge if not built in

DPC not required!



Zero cavity option*



Typical installation

OS lintels offer an economic solution to outer leaf support by bearing on the inner (lintel/slab/beam/masonry), and forming an integral cavity tray

Allowable Evenly Distributed Load (kN) for OS Lintels

Load capacity varies with cavity size:

Cavities ≤ 40mm

Cavities ≤ 80mm

Cavities ≤ 125mm

Opening Span	Lintel std length	Cavities ≤ 40mm			Cavities ≤ 80mm			Cavities ≤ 125mm			Loading Example (refer pg 85)
		OS2	OS3	OS4	OS2	OS3	OS4	OS2	OS3	OS4	
600	900	3.0	9.0	21.0	3.0	9.0	21.0	3.0	9.0	21.0	440mm of masonry & tiled roof
750	1050	3.8	11.3	26.3	3.8	11.3	26.3	3.8	11.3	26.3	
900	1200	4.5	13.5	31.5	4.5	13.5	31.5	4.5	13.5	26.3	
1050	1350	5.3	15.8	36.8	5.3	15.8	36.8	5.3	12.5	20.4	
1200	1500	6.0	18.0	42.0	6.0	18.0	30.8	5.3	9.8	15.8	
1350	1650	6.8	20.3	47.3	6.8	15.4	24.5	4.4	8.0	12.7	
1500	1800	7.5	22.5	38.9	7.0	12.6	20.1	3.8	6.6	10.5	full height masonry
1650	1950	8.3	20.3	32.3	5.9	10.6	16.7	3.3	5.7	8.8	
1800	2100	9.0	17.3	27.3	5.1	9.1	14.2	2.9	4.9	7.6	
1950	2250	8.2	14.9	23.4	4.5	7.9	12.3	2.6	4.3	6.6	
2100	2400	7.2	12.9	20.3	4.0	6.9	10.7	2.4	3.9	5.8	
2250	2550	6.4	11.4	17.8	3.7	6.2	9.5		3.5	5.2	
2400	2700	5.8	10.1	15.8	3.3	5.5	8.4		3.2	4.7	440mm of masonry
2550	2850	5.2	9.1	14.1	3.1	5.0	7.6		2.9	4.3	
2700	3000	4.8	8.2	12.7		4.6	6.9			3.9	
2850	3150	4.4	7.5	11.5		4.2	6.3			3.6	
3000	3300	4.1	6.9	10.5		3.9	5.8			3.4	
3150	3450		6.3	9.6		3.6	5.3			3.2	
3300	3600		5.8	8.8			4.9			3.0	440mm of masonry
3450	3750		5.4	8.2			4.6				
3600	3900		5.1	7.6			4.3				
3750	4050		4.7	7.1							
3900	4200			6.6							
4050	4350			6.2							
4200	4500			5.8							

Loading Notes

These lintels are designed to be supported along the full length of the inner of the lintel, and under each end of the outer as for a normal lintel. They require fastening on the inner at regular intervals only if there is no significant masonry on the inner to hold it in position. (Installation guide: Page 83)

Point Loads

Significant point loads are not recommended on these lintels, OSH lintels (next page) are more suitable for carrying point loads

Permissible Moments

These lintels usually fail on deflection criteria by twisting action, and should not be selected by moment capacity.!

Zero cavity situations

OS lintels with vertical web installed as shown top left have greater capacity as detailed right:

*For 'Zero Cavity' applications the load capacities are: OS2: 6.0kN/m OS3: 18kN/m OS4: 40kN/m

Extras such as bonded connections, feature brick, curves & corners can all be accommodated - all standard in LDX2101® Stainless Steel. Call 01206 79 2001 to discuss or visit www.stainless-lintels.co.uk

OS Lintel Range

OS Lintels typical sizes & Designations

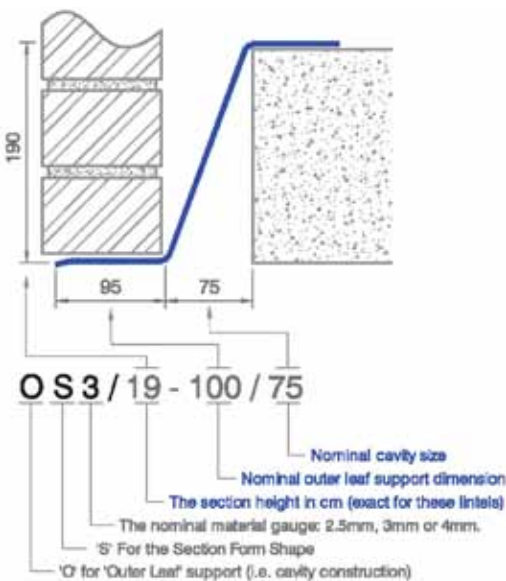
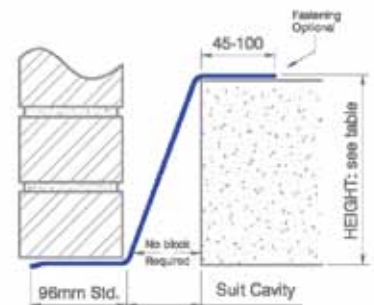
OS2 Lintels - Light Duty
OS3 Lintels - Medium Duty
OS4 Lintels - Heavy Duty

Cavity:	up to 30mm	30-39mm	40-49mm	50-59mm	60-69mm	70-84mm	85-99mm	100-109mm	110-119mm	120-139mm
150	OS2/15-100/0	OS2/15-100/30	OS2/15-100/40	OS2/15-100/50	OS2/15-100/60	OS2/15-100/70	OS2/15-100/85	OS2/15-100/100	OS2/15-100/110	OS2/15-100/120
160	OS2/16-100/0	OS2/16-100/30	OS2/16-100/40	OS2/16-100/50	OS2/16-100/60	OS2/16-100/70	OS2/16-100/85	OS2/16-100/100	OS2/16-100/110	OS2/16-100/120
170	OS2/17-100/0	OS2/17-100/30	OS2/17-100/40	OS2/17-100/50	OS2/17-100/60	OS2/17-100/70	OS2/17-100/85	OS2/17-100/100	OS2/17-100/110	OS2/17-100/120
180	OS2/18-100/0	OS2/18-100/30	OS2/18-100/40	OS2/18-100/50	OS2/18-100/60	OS2/18-100/70	OS2/18-100/85	OS2/18-100/100	OS2/18-100/110	OS2/18-100/120
190	OS2/19-100/0	OS2/19-100/30	OS2/19-100/40	OS2/19-100/50	OS2/19-100/60	OS2/19-100/70	OS2/19-100/85	OS2/19-100/100	OS2/19-100/110	OS2/19-100/120
	OS3/19-100/0	OS3/19-100/30	OS3/19-100/40	OS3/19-100/50	OS3/19-100/60	OS3/19-100/70	OS3/19-100/85	OS3/19-100/100	OS3/19-100/110	OS3/19-100/120
200	OS2/20-100/0	OS2/20-100/30	OS2/20-100/40	OS2/20-100/50	OS2/20-100/60	OS2/20-100/70	OS2/20-100/85	OS2/20-100/100	OS2/20-100/110	OS2/20-100/120
	OS3/20-100/0	OS3/20-100/30	OS3/20-100/40	OS3/20-100/50	OS3/20-100/60	OS3/20-100/70	OS3/20-100/85	OS3/20-100/100	OS3/20-100/110	OS3/20-100/120
210	OS2/21-100/0	OS2/21-100/30	OS2/21-100/40	OS2/21-100/50	OS2/21-100/60	OS2/21-100/70	OS2/21-100/85	OS2/21-100/100	OS2/21-100/110	OS2/21-100/120
	OS3/21-100/0	OS3/21-100/30	OS3/21-100/40	OS3/21-100/50	OS3/21-100/60	OS3/21-100/70	OS3/21-100/85	OS3/21-100/100	OS3/21-100/110	OS3/21-100/120
220	OS2/22-100/0	OS2/22-100/30	OS2/22-100/40	OS2/22-100/50	OS2/22-100/60	OS2/22-100/70	OS2/22-100/85	OS2/22-100/100	OS2/22-100/110	OS2/22-100/120
	OS3/22-100/0	OS3/22-100/30	OS3/22-100/40	OS3/22-100/50	OS3/22-100/60	OS3/22-100/70	OS3/22-100/85	OS3/22-100/100	OS3/22-100/110	OS3/22-100/120
230	OS4/23-100/0	OS4/23-100/30	OS4/23-100/40	OS4/23-100/50	OS4/23-100/60	OS4/23-100/70	OS4/23-100/85	OS4/23-100/100	OS4/23-100/110	OS4/23-100/120
	OS3/23-100/0	OS3/23-100/30	OS3/23-100/40	OS3/23-100/50	OS3/23-100/60	OS3/23-100/70	OS3/23-100/85	OS3/23-100/100	OS3/23-100/110	OS3/23-100/120
240	OS4/24-100/0	OS4/24-100/30	OS4/24-100/40	OS4/24-100/50	OS4/24-100/60	OS4/24-100/70	OS4/24-100/85	OS4/24-100/100	OS4/24-100/110	OS4/24-100/120
	OS3/24-100/0	OS3/24-100/30	OS3/24-100/40	OS3/24-100/50	OS3/24-100/60	OS3/24-100/70	OS3/24-100/85	OS3/24-100/100	OS3/24-100/110	OS3/24-100/120
250	OS4/25-100/0	OS4/25-100/30	OS4/25-100/40	OS4/25-100/50	OS4/25-100/60	OS4/25-100/70	OS4/25-100/85	OS4/25-100/100	OS4/25-100/110	OS4/25-100/120
	OS3/25-100/0	OS3/25-100/30	OS3/25-100/40	OS3/25-100/50	OS3/25-100/60	OS3/25-100/70	OS3/25-100/85	OS3/25-100/100	OS3/25-100/110	OS3/25-100/120
260	OS4/26-100/0	OS4/26-100/30	OS4/26-100/40	OS4/26-100/50	OS4/26-100/60	OS4/26-100/70	OS4/26-100/85	OS4/26-100/100	OS4/26-100/110	OS4/26-100/120
	OS3/26-100/0	OS3/26-100/30	OS3/26-100/40	OS3/26-100/50	OS3/26-100/60	OS3/26-100/70	OS3/26-100/85	OS3/26-100/100	OS3/26-100/110	OS3/26-100/120
270	OS4/27-100/0	OS4/27-100/30	OS4/27-100/40	OS4/27-100/50	OS4/27-100/60	OS4/27-100/70	OS4/27-100/85	OS4/27-100/100	OS4/27-100/110	OS4/27-100/120
280	OS4/28-100/0	OS4/28-100/30	OS4/28-100/40	OS4/28-100/50	OS4/28-100/60	OS4/28-100/70	OS4/28-100/85	OS4/28-100/100	OS4/28-100/110	OS4/28-100/120
290	OS4/29-100/0	OS4/29-100/30	OS4/29-100/40	OS4/29-100/50	OS4/29-100/60	OS4/29-100/70	OS4/29-100/85	OS4/29-100/100	OS4/29-100/110	OS4/29-100/120
300	OS4/30-100/0	OS4/30-100/30	OS4/30-100/40	OS4/30-100/50	OS4/30-100/60	OS4/30-100/70	OS4/30-100/85	OS4/30-100/100	OS4/30-100/110	OS4/30-100/120

Note: This table represents a standard selection of common sizes, but many other variations are also possible! ... Please call for bespoke requirements

STANDARD DIMENSIONS

The dimensions required to choose a lintel designation from the table above are as shown right. Due to the large number of standard designations of this lintel we don't list additional section properties; Lintels may occasionally be manufactured from heavier gauge than listed, depending on availability.



OPTIONS FOR OS LINTELS

Both the leaf support width (which is 95mm as standard) and the cavity width can be customised to suit your particular application. Although not listed left, cavity sizes over 125mm are readily manufactured - please contact us for assistance..