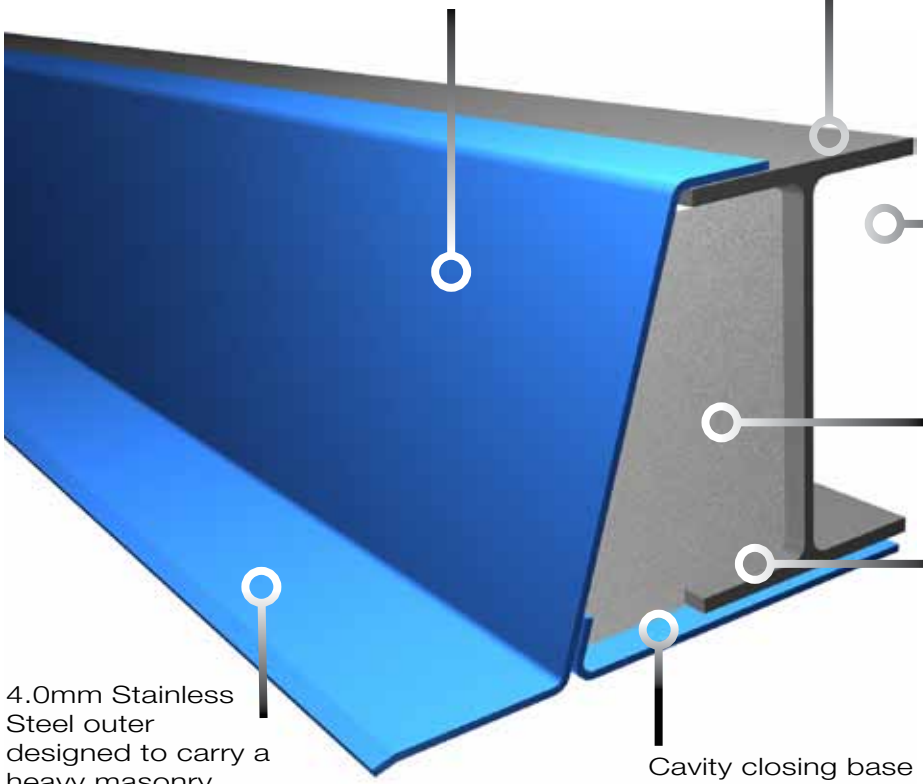
The advantages

CI Lintel Range

In wider wall constructions, the sloping outer acts to form an integral cavity tray* (see tables); in these cases they are supplied complete with stop-ends.

Inner masonry covers the connection of the outer to the I-Beam, protecting the I-Beam from any damp in the cavity and outer.



The Inner masonry bears on the top of the lintel - so there is no structural requirement to fill the back of the lintel.

Additional insulation or fill can easily be added to the inside prior to dry-lining if required.

Rock-wool insulated center minimises thermal transfer and is more fire resistant than the lintel itself!

Heavy duty structural steel I beams enable these lintels to carry far greater load than is possible with normal pressed section lintels

4.0mm Stainless Steel outer designed to carry a heavy masonry load, with drip feature as standard.

Cavity closing base plate ensures the lintel will not twist, and features an elevated connection to prevent moisture egress into the I-section behind.

OPTIONS FOR CI LINTELS - The usual custom specifications are available, here's an example.

Should you require something different from the standard lintels listed in the tables, the specification components in blue can be varied to achieve non standard dimensions and features; for example:

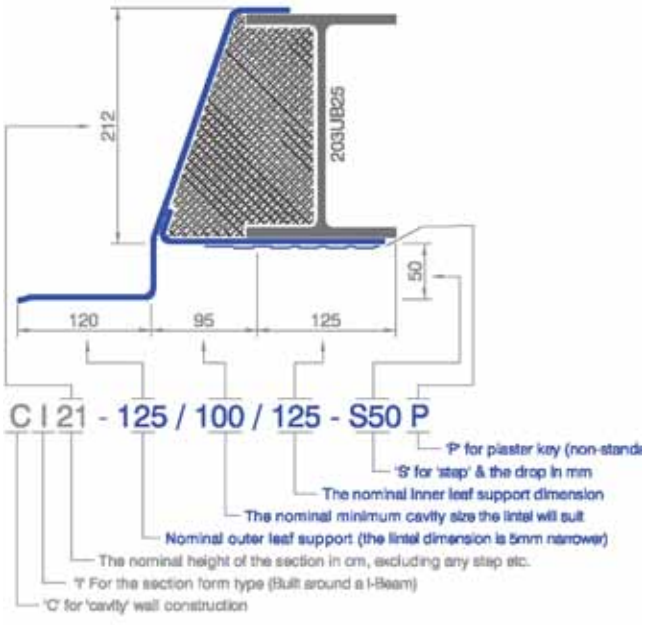
- A stepped outer,
- Flat base (no plaster key),
- Shorter or longer leaf supports.

Custom inner leaf dimensions are often specified for this type of section to support wide inner leaf masonry.

We can also custom design and manufacture structural masonry supporting members based on other standard steel sections as required for specific applications.

Note: lead times may be longer if the required section is not standard stock.

*The stop ends supplied to form an integral cavity tray are adhesive, for fully welded stop-ends incorporated into the lintel, specify 'LINTRAY®' with your order!



Although standard in LDX2101®, we can also produce these lintels in SS370. For galvanised or grade 304 lintels refer to out RED brochure. Call 01206 79 2001 to discuss or visit www.lintels.co.uk

Lintels for Heavy Duty applications

CI27 Lintel range

This is a super heavy duty lintel, designed around a standard I-section for strength & economy, but still with the benefit of stainless steel in the cavity and outer; See pgs 24 & 25 for lintel features and options

Specification table for CI27 Lintels

Nominal cavity size (mm)	Nominal inner leaf (mm)	SPECIFY	Overall Height (mm)	Overall Width (mm)	Steel Gauge (mm)	Mass (kg/m)	Form Type	Ixx (cm^4)	Zxx (cm^3)
	100-115	(not available)							
47-56	125-140	CI27-100/50/125+	264	267	4.0	55.6	No	8225.5	559.56
	190-215	CI27-100/50/175	264	332	4.0	58.5	Yes	8789.0	589.87
	100-115	CI27-100/60/100+	264	252	4.0	55.1	No	8135.6	557.23
57-71	125-140	CI27-100/60/125+	264	277	4.0	56.0	No	8280.0	559.46
	190-215	CI27-100/60/175	264	342	4.0	58.9	Yes	8844.0	589.60
	100-115	CI27-100/75/100+	264	267	4.0	55.6	No	8225.5	559.56
72-84	125-140	CI27-100/75/125	264	292	4.0	56.2	No	8294.7	556.69
	190-215	CI27-100/75/175	264	357	4.0	59.4	Yes	8895.0	589.07
	100-115	CI27-100/90/100+	264	280	4.0	55.8	No	8250.6	557.47
85-96	125-140	CI27-100/90/125	264	305	4.0	57.0	No	8444.8	562.98
	190-215	CI27-100/90/175	264	370	4.0	59.7	Yes	8933.0	587.70
	100-115	CI27-100/100/100	264	292	4.0	56.2	No	8294.7	556.69
97-119	125-140	CI27-100/100/125	264	317	4.0	57.5	Yes	8510.7	567.38
	190-215	CI27-100/100/175	264	382	4.0	60.1	Yes	8954.0	585.23
	100-115	CI27-100/120/100	264	315	4.0	57.8	No	8628.0	579.06
120-139	125-140	CI27-100/120/125	264	340	4.0	57.9	Yes	8507.8	556.07
	190-215	CI27-100/120/175	264	405	4.0	61.1	Yes	9094.0	590.52
	100-115	CI27-100/140/100	264	335	4.0	58.6	Yes	8737.8	582.52
140-160	125-140	CI27-100/140/125	264	360	4.0	58.8	Yes	8625.0	560.06
	190-215	CI27-100/140/175	264	425	4.0	62.0	Yes	9215.0	594.52

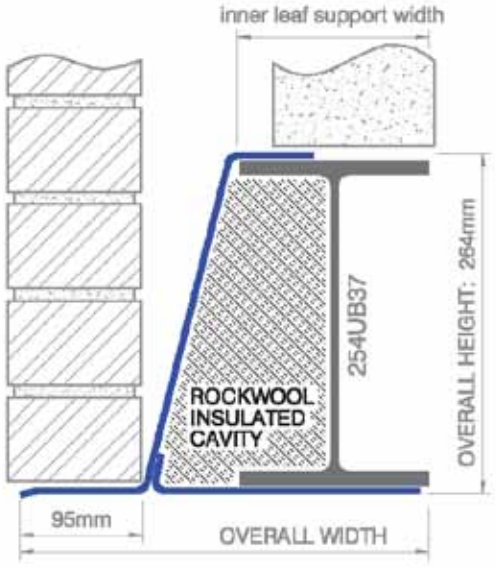
NOTES: CAUTION! Recommended only for applications with a dry inner leaf (most typical buildings). Lintels sizes marked (+) have a flat connection with the outer due to narrow cavity restriction..

Why use a CI27 Lintel?

- Mild steel economy but with
- Stainless steel durability
- Easy structural analysis
- Conventional structural connections if required

Options

- Bolted end connections
- Stepped or cant outer
- Special outer dimensions
- Special inner dimensions
- Plaster key on the base or back



Allowable load for all CI27 Lintels*

Opening Span	Lintel Length	Max total load (kN)*	Load Example (see pg 85)
900	1200	**145.9**	
1050	1350	**150.9**	
1200	1500	**155.9**	
1350	1650	**155.9**	
1500	1800	**155.9**	
1650	1950	**155.9**	
1800	2100	**155.9**	
1950	2250	**155.9**	Caution: These are super-heavy duty lintels for unusual applications. We recommend their specification and application be checked by a Structural Engineer
2100	2400	**155.9**	
2250	2550	**155.9**	
2400	2700	**155.9**	
2550	2850	**155.9**	
2700	3000	**155.9**	
2850	3150	**155.9**	
3000	3300	**155.9**	
3150	3450	**155.9**	
3300	3600	**155.9**	
3450	3750	**155.9**	
3600	3900	**155.9**	
3750	4050	**155.9**	
3900	4200	**155.9**	
4050	4350	**155.9**	
4200	4500	**155.9**	
4350	4650	**155.9**	masonry & concrete floor
4500	4800	**155.9**	
4650	4950	**155.9**	
4800	5100	**154.4**	
4950	5250	**145.2**	
5100	5400	**136.8**	
5250	5550	**129.1**	masonry & tiled roof
5400	5700	**122.0**	
5550	5850	**115.5**	
5700	6000	**109.5**	
5850	6150	**104.0**	
6000	6300	**98.8**	
6150	6450	**94.1**	
6300	6600	**89.6**	full height masonry
6450	6750	**85.5**	
6600	6900	**81.7**	
6750	7050	**78.1**	
6900	7200	**74.7**	
7050	7350	**71.6**	
7200	7500	**68.6**	
7350	7650	**65.9**	
7500	7800	**63.3**	900mm of masonry
7650	7950	**60.8**	
7800	8100	**58.5**	
7950	8250	**56.3**	
8100	8400	**54.2**	
8250	8550	**52.3**	

Shorter & intermediate lengths can be produced

Permissible Moment*: 94.0 kN.m
Permissible Point Load*: 71.0 kN

LOAD LOAD RATIO LIMITS* (OUTER : INNER)
65-100% Max load: 1:3 - 1:29
OR
< 65% Max Load: 1:2 - 1:29

*See page 78 for loading & Installation guide

Many variations are possible, we can even hide the lintel with Feature Brick options! (see page 74) - All standard in LDX2101® Stainless Steel. Call 01206 79 2001 to discuss or visit www.stainless-lintels.co.uk