

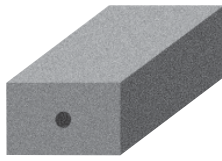
# Precast concrete lintels to BS5977-2

## pre-stressed composite/non-composite

Section dimensions

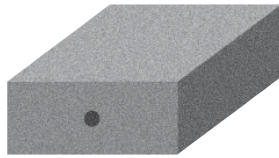
Weight/linear metre

100×65 mm



15.5 kg

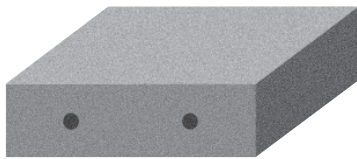
150×65 mm \*



23.3 kg



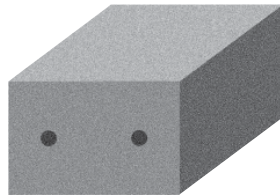
220×65 mm \*



34.2 kg



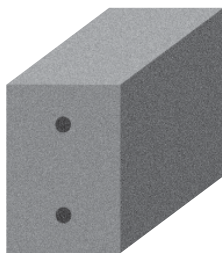
150×100 mm



35.9 kg



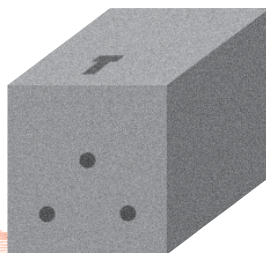
100×150 mm



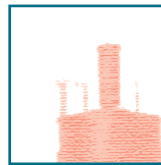
35.9 kg



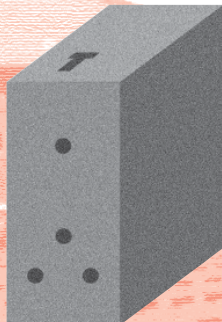
140×150 mm



50.4 kg



100×215 mm



52.5 kg

Stowell Concrete manufacture a concrete lintel system of the highest quality. The pre-stressed concrete lintels are attractively textured to accept all kinds of applied finish and are easily handled. The system provides an economic and convenient form of construction, having many advantages over comparable lintel systems with its ease of installation.

### COMPOSITE LINTELS

These lintels utilise the composite action of the concrete and brick/blockwork together to provide their load-bearing capacities as shown in the table overleaf.

A strong mortar mix of 3 parts sand to 1 part cement is recommended with brick reinforcing fully interleaving each course. Three courses of brickwork are equivalent to two courses of blockwork. As the brickwork mortar matures, lintels of over 1200mm spans should be propped at 1200mm centres. Bearings at each end must be at least 150mm and for lintels of over 3 metres, longer bearings are recommended. A damp proof course, when used, must be strong and plastic enough to avoid cracking and be placed so as not to break the lintel/blockwork bond. Ideally the d.p.c. should not be included in the composite wall joint at all, but if essential then it should be only tucked in 30mm.

### NON-COMPOSITE LINTELS

Where a higher load bearing capacity is required or there is insufficient brickwork above to allow adequate composite action non-composite lintels are the solution.

No propping is necessary during construction and also wall plates, trusses and floor joists can be accommodated as directly imposed load in accordance with the table overleaf. Bearings at each end must be at least 150mm and for lintels of over 3 metres, longer bearings are recommended.

\*please check stock availability

# STOWELL

CONCRETE LIMITED

07/09

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# Precast concrete lintels

## COMPOSITE lintel maximum uniformly distributed load for clear spans kg/m

Section w × h	No of courses	0.60 m	0.75 m	0.90 m	1.05 m	1.20 m	1.35 m	1.50 m	1.65 m	1.80 m	1.95 m	2.10 m	2.25 m	2.40 m	2.55 m	2.70 m	2.85 m
100 × 65 mm	2	2033	1407	1029	785	617	497	408	340	288	246	212	185	162	143	127	113
	5	2743	1900	1392	1062	836	674	554	463	392	336	291	254	223	197	175	156
	8	4166	2889	2118	1618	1275	1030	849	711	603	516	449	393	347	308	274	246
150 × 65 mm	2	2168	1498	1094	833	653	524	430	357	301	257	221	191	166	146	129	–
	5	4002	2773	2030	1550	1219	983	809	676	572	490	424	370	325	288	256	–
	8	5837	4046	2967	2266	1785	1442	1188	994	844	725	628	549	484	429	383	–
220 × 65 mm	2	2377	1639	1193	904	706	565	459	380	317	269	228	196	169	147	127	–
	5	5940	4115	3015	2300	1811	1460	1201	1004	851	729	631	560	484	428	381	–
	8	8195	5679	4161	3177	2501	2019	1661	1389	1178	1010	875	764	672	596	530	–

The self-weight of the lintel has been allowed for in the calculations

Section w × h (mm)	100 × 65	150 × 65	220 × 65
Weight/linear metre	15.5kg	23.3kg	34.2kg

The table above is for safe working, uniformly distributed loads applied to the composite construction in kg/metre run of span exclusive of self weight of brickwork within the construction, but including the weight of the lintel. The design is based on the brickwork having a limiting crushing strength of 10.4 N/mm<sup>2</sup>.

## NON-COMPOSITE lintel maximum uniformly distributed load for clear spans kg/m

Section w × h	0.75 m	0.90 m	1.05 m	1.20 m	1.35 m	1.50 m	1.65 m	1.80 m	1.96 m	2.10 m	2.25 m	2.40 m	2.55 m	2.70 m	2.85 m	3.00 m	3.15 m	3.30 m	3.75 m	4.05 m
150 × 100 mm	2381	1739	1282	1006	808	662	551	464	395	340	295	257	226	199	176	157	140	125	–	–
100 × 150 mm	3590	2628	1880	1480	1191	976	816	691	638	511	458	390	344	302	272	244	219	198	–	–
140 × 150 mm	–	–	3564	2806	2263	1862	1557	1319	1131	979	855	751	665	592	529	476	429	389	–	–
100 × 215 mm	–	–	–	–	2952	2694	2413	2140	1882	1624	1402	1202	1122	1004	856	812	723	664	517	423

The self-weight of the lintel has been allowed for in the calculations

Section w × h (mm)	150 × 100	140 × 150	100 × 215
Weight/linear metre	35.9kg	50.3kg	51.4kg

The table above is for safe working, uniformly distributed loads applied to the non-composite lintels in kg/metre run of span inclusive of the weight of the lintel.

All products are available ex works.

Prices on application.

Telephone our sales office for further information and quotations.

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