

JUWÖ Evolved SmartWall™ Lintels

The SmartWall system offers a complete range of Lintels for all standard opening requirements ranging from the Juwö SmartWall Clay lintels for smaller spans and loads i.e internal and external openings, through to an Insulated Steel Box lintels for the larger openings with higher loadings requirements.

The type and use of the lintels need to be designed into the system via your Structural Engineer to ensure compliance with Building Regulations, however we have included below a guide to the lintels we offer for the SmartWall Monolithic Clay block system.

As part of our Architectural and Structural Design Services we can offer bespoke Architectural Design and Structural calculations for your project or visit our website where we have provided a Lintel Design App to assist you in the design:

www.evolvedsupplies.co.uk/lintelapp

Cavity wall construction that require a Boot type lintel for the construction are also available upon request, as are specialist Box lintels for curved openings as well as options on the type of metal used to include Stainless Steel options.

Juwö Evolved SmartWall Clay Lintel

115 x 71mm Supplied in 250mm increments from 1.000m – 3.000m long



Juwö Evolved SmartWall Clay Lintel (115 x 71)																
Lintel length (m)	1.000	1.000	1.250	1.250	1.500	1.500	1.750	1.750	2.000	2.000	2.250	2.250	2.500	2.750	3.000	
Bearing (m)	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.200	0.200	
Opening width (m)	0.600	0.750	0.850	1.000	1.100	1.250	1.350	1.500	1.600	1.750	1.850	2.000	2.100	2.350	2.600	
Total height of lintel and spandrel (m)	0.25	4.00	2.80	2.25	1.69	1.43	1.13	0.99	0.81	0.72	0.61	0.55	0.47	0.43	0.35	0.29
	0.50	8.76	7.25	6.51	5.64	5.18	4.62	4.30	3.89	3.46	2.93	2.64	2.28	2.08	1.68	1.38
	0.75	13.51	11.20	10.05	8.71	8.00	7.13	6.64	6.03	5.68	5.23	4.96	4.61	4.40	3.96	3.30
	1.00	18.27	15.14	13.59	11.78	10.81	9.63	8.98	8.15	7.68	7.07	6.71	6.23	5.95	5.35	4.86
	1.25	23.03	19.08	17.13	14.84	13.63	12.14	11.32	10.28	9.68	8.91	8.45	7.86	7.50	6.75	6.13
	1.50	27.79	23.03	20.66	17.91	16.45	14.65	13.66	12.40	11.68	10.75	10.20	9.48	9.06	8.14	7.39

Allowable ultimate design load in kN/m for various spans as shown.

Juwö Evolved SmartWall Clay Lintel

175 x 71mm Supplied in 250mm increments from 1.000m – 3.000m long



Juwö Evolved SmartWall Clay Lintel (175 x 71)																
Lintel length (m)	1.000	1.000	1.250	1.250	1.500	1.500	1.750	1.750	2.000	2.000	2.250	2.250	2.500	2.750	3.000	
Bearing (m)	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.125	0.200	0.200	0.200	
Opening width (m)	0.600	0.750	0.850	1.000	1.100	1.250	1.350	1.500	1.600	1.750	1.850	2.000	2.100	2.350	2.600	
Total height of lintel and spandrel (m)	0.25	6.08	4.26	3.43	2.58	2.17	1.73	1.50	1.24	1.10	0.93	0.84	0.72	0.66	0.53	0.44
	0.50	13.32	11.04	9.91	8.59	7.89	7.03	6.55	5.93	5.26	4.45	4.01	3.47	3.16	2.55	2.11
	0.75	20.57	17.04	15.29	13.25	12.17	10.84	10.11	9.18	8.64	7.95	7.55	7.02	6.70	6.02	5.02
	1.00	27.81	23.04	20.68	17.92	16.46	14.66	13.67	12.41	11.69	10.75	10.21	9.49	9.06	8.15	7.40
	1.25	35.05	29.04	26.06	22.59	20.74	18.48	17.23	15.64	14.73	13.55	12.87	11.96	11.42	10.27	9.32
	1.50	42.29	35.04	31.45	27.25	25.03	22.30	20.79	18.87	17.77	16.35	15.52	14.43	13.78	12.39	11.25

Allowable ultimate design load in kN/m for various spans as shown.

Juwö Evolved SmartWall Clay Lintel

115 x 113mm Supplied in 1.000m - 1.250m - 1.500m lengths only

Juwö Evolved SmartWall Clay Lintel (115 x 113)							
Lintel length (m)	1.000	1.000	1.250	1.250	1.500	1.500	
Bearing (m)	0.200	0.125	0.200	0.125	0.200	0.125	
Opening width (m)	0.600	0.750	0.850	1.000	1.100	1.250	
Total height of lintel and spandrel (m)	0.25	4.00	2.80	2.25	1.69	1.43	1.13
	0.50	8.76	7.25	6.51	5.64	5.18	4.62
	0.75	13.51	11.20	10.05	8.71	8.00	7.13
	1.00	18.27	15.14	13.59	11.78	10.81	9.63
	1.25	23.03	19.08	17.13	14.84	13.63	12.14
	1.50	27.79	23.03	20.66	17.91	16.45	14.65



Allowable ultimate design load in kN/m for various spans as shown.

Juwö Evolved SmartWall Clay Lintel

175 x 113mm Supplied in 1.250m lengths only

Juwö Evolved SmartWall Clay Lintel (175 x 113)							
Lintel length (m)	1.250	1.250	1.250	1.250	1.250	1.250	
Bearing (m)	0.225	0.200	0.175	0.150	0.125	0.125	
Opening width (m)	0.800	0.850	0.900	0.950	1.000	1.000	
Total height of lintel and spandrel (m)	0.25	3.81	3.43	3.10	2.82	2.58	
	0.50	10.44	9.91	9.42	8.99	8.59	
	0.75	16.12	15.29	14.55	13.87	13.25	
	1.00	21.79	20.68	19.67	18.75	17.92	
	1.25	27.47	26.06	24.79	23.64	22.59	
	1.50	33.15	31.45	29.91	28.52	27.25	



Allowable ultimate design load in kN/m for various spans as shown.

Juwö Evolved SmartWall Clay Lintel

365 x 113mm Thermally Insulated Lintel Supplied in 1.250m - 1.500m lengths only

Juwö Evolved SmartWall Clay Lintel (365 x 113)					
Lintel length (m)	1.250	1.250	1.500	1.500	
Bearing (m)	0.200	0.125	0.200	0.125	
Opening width (m)	0.850	1.000	1.100	1.250	
Total height of lintel and spandrel (m)	0.25	7.16	5.37	4.53	3.60
	0.50	20.66	17.91	16.45	14.65
	0.75	31.90	27.64	25.39	22.62
	1.00	43.13	37.38	34.32	30.58
	1.25	54.36	47.11	43.26	38.54
	1.50	54.78	47.47	43.60	38.84



Allowable ultimate design load in kN/m for various spans as shown.

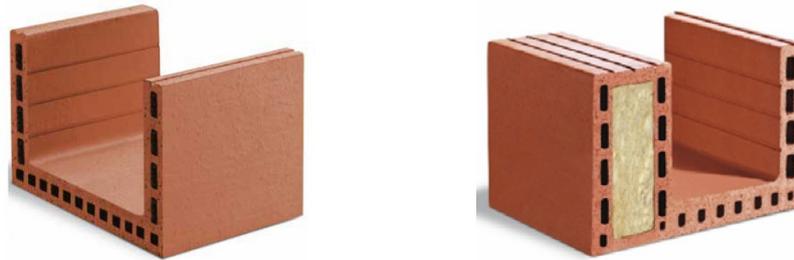
JUWÖ Evolved SmartWall™ Lintels

Juwö SmartWall Clay Blocks for bespoke lintels sizes on site will require a structural design to confirm the rebar size, volume, and type of concrete to be used.

The Juwö SmartWall Clay U Blocks are supplied in two formats:

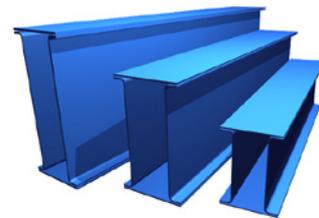
Uninsulated in 175mm, 240mm, 300mm, 365mm, 425mm, or 490mm wide.

Or an Insulated U block format supplied in 300mm, 365mm, 425mm, or 490mm wide.



The Juwö Evolved SmartWall Steel Box Lintel

For larger spans or where more strength is needed, we offer an Insulated Galvanised Steel Box lintel to suit all widths of the Juwö SmartWall Clay Blocks system



Juwö SmartWall Steel Box Lintel (190 to 490 Block widths)																		
Lintel length (m)	1.000	1.000	1.250	1.250	1.500	1.500	1.750	1.750	2.000	2.000	2.250	2.250	2.500	3.000	3.500	4.000	4.500	
Bearing (m)	0.125	0.250	0.125	0.250	0.125	0.250	0.125	0.250	0.125	0.250	0.125	0.250	0.250	0.250	0.250	0.250	0.250	
Opening width (m)	0.750	0.500	1.000	0.750	1.250	1.000	1.500	1.250	1.750	1.500	2.000	1.750	2.000	2.500	3.000	3.500	4.000	
Lintel Type	BOX 190-75	21.28	63.83	15.96	42.56	12.77	31.92	10.64	25.53	9.12	20.53	7.98	12.93	8.66	4.43	2.57	2.57	1.62
	BOX 240-75	26.88	80.63	20.16	53.75	16.13	40.32	13.44	32.25	11.52	25.66	10.08	16.16	10.83	5.54	3.21	3.21	2.02
	BOX 190-150	21.28	63.83	15.96	42.56	12.77	31.92	10.64	25.53	9.12	21.28	7.98	18.24	15.96	12.77	10.64	10.64	7.04
	BOX 240-150	26.88	80.63	20.16	53.75	16.13	40.32	13.44	32.25	11.52	26.88	10.08	23.04	20.16	16.13	13.44	13.44	8.70
	BOX 300-150	33.60	100.79	25.20	67.19	20.16	50.40	16.80	40.32	14.40	33.60	12.60	28.80	25.20	20.16	16.80	16.80	10.70
	BOX 365-150	40.88	122.63	30.66	81.75	24.53	61.31	20.44	49.05	17.52	40.88	15.33	35.04	30.66	24.53	20.42	20.42	12.86
	BOX 425-150	47.60	142.79	35.70	95.19	28.56	71.39	23.80	57.11	20.40	47.60	17.85	40.80	35.70	28.56	23.59	23.59	14.85
	BOX 490-150	54.87	164.62	41.16	109.75	32.92	82.31	27.44	65.85	23.52	54.87	20.58	47.04	41.16	32.92	27.03	27.03	17.02
	BOX 190-225	21.28	63.83	15.96	42.56	12.77	31.92	10.64	25.53	9.12	21.28	7.98	18.24	15.96	12.77	10.64	10.64	9.12
	BOX 240-225	26.88	80.63	20.16	53.75	16.13	40.32	13.44	32.25	11.52	26.88	10.08	23.04	20.16	16.13	13.44	13.44	11.52
	BOX 300-225	33.60	100.79	25.20	67.19	20.16	50.40	16.80	40.32	14.40	33.60	12.60	28.80	25.20	20.16	16.80	16.80	14.40
	BOX 365-225	40.88	122.63	30.66	81.75	24.53	61.31	20.44	49.05	17.52	40.88	15.33	35.04	30.66	24.53	20.44	20.44	17.52
	BOX 425-225	47.60	142.79	35.70	95.19	28.56	71.39	23.80	57.11	20.40	47.60	17.85	40.80	35.70	28.56	23.80	23.80	20.40
	BOX 490-225	54.87	164.62	41.16	109.75	32.92	82.31	27.44	65.85	23.52	54.87	20.58	47.04	41.16	32.92	27.44	27.44	23.52

Allowable ultimate design load in kN/m for various spans as shown.

Specialist lintels for Curved openings, Corner details, Cavity Wall applications, as well as options on the type of metal used to include Stainless Steel options are available upon request.