The Future is JUWO Evolved Smart Vall

Ring Beams & Lintels



The JUWO Evolved SmartWall™ Thermoplan Clayblock System

JUWO Evolved SmartWallTM Ring Beams

JUWO Evolved SmartWallTM blocks derive some of their efficiency and productivity from the 'tried and tested' practice of not filling the perpens. This has been in use in Europe for many years but differs from the UK tradition of filling the perpens.

Filling the perpens with the JUWO Evolved SmartWallTM block will consume more materials, including water and take more time to build, and it may impair the thermal efficiency.

For this reason, the walls are not designed, primarily, to transmit horizontal forces in the plane of the wall, as outlined in the current masonry standards (See, for example NA to BS EN 196-1 Clause NA.2.4). To fulfil the requirements of this clause, and to conform to good building design practice, a peripheral tie is formed at each story level. This is sometimes referred to as a 'Ring Beam'. Note that, in the case of any predominating structural material, ties are specified for buildings requiring explicit design for collapse resistance, in accordance with the UK Building Regulations Part A3. Such ties, where ties are required, include perimeter ties, and the provision of Ring Beams in JUWO Evolved SmartWallTM masonry may be taken to fulfil this requirement, in whole or in part, where appropriately designed.

All the JUWO Evolved SmartWallTM units for these purposes fully integrate and are modular with the wall. Once formed, they are simply part of the wall and are treated as a wall for the application of following trades etc.

Ring Beam acting as a Lintels

The Ring Beams, mentioned above, may also fulfil the function of lintels, where it is necessary for walls to span over openings etc. All that is required in such cases, is to arrange the levels so that the Ring Beam is situated at the opening height and to coordinate the opening design as necessary.

Where lintels are required and are not provided by a Ring Beam, or are part of a Ring Beam, individual lintels can easily be designed, using the same techniques.

Construction

There are several methods of constructing such Ring Beams and lintels. The method recommended for JUWO Evolved SmartWall[™] is to construct the wall incorporating JUWO Evolved SmartWall[™] U-Blocks, WU-Blocks or RDS units.

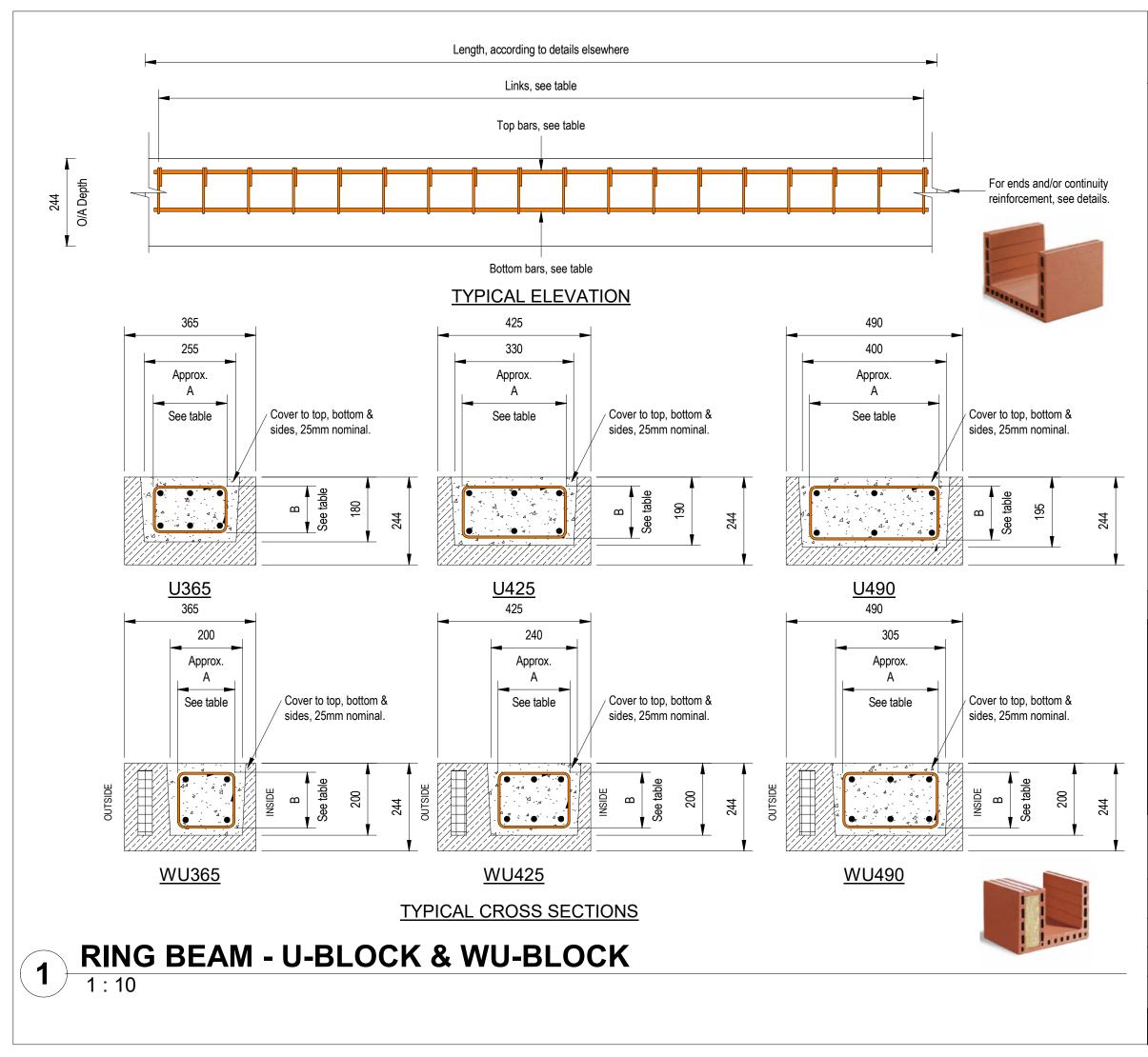
These are manufactured in materials compatible, both materially and geometrically, and are modular. They provide permanent formwork, into which concrete and reinforcement can be placed to form the beam or lintel. This obviates the need for separate formwork, although that can also be used if preferred for other reasons.

These items can be pre-cast or cast in situ. Thus, items of any size can be constructed, with in-situ cast items being more suitable for large units or Ring Beams, and pre-cast being better for smaller applications, such as short span lintels.

In situ casting will require simple temporary support to the units, until the concrete has cured sufficiently. Pre-cast items can be provided with lifting eyes or may be lifted with a block-grab if appropriate.

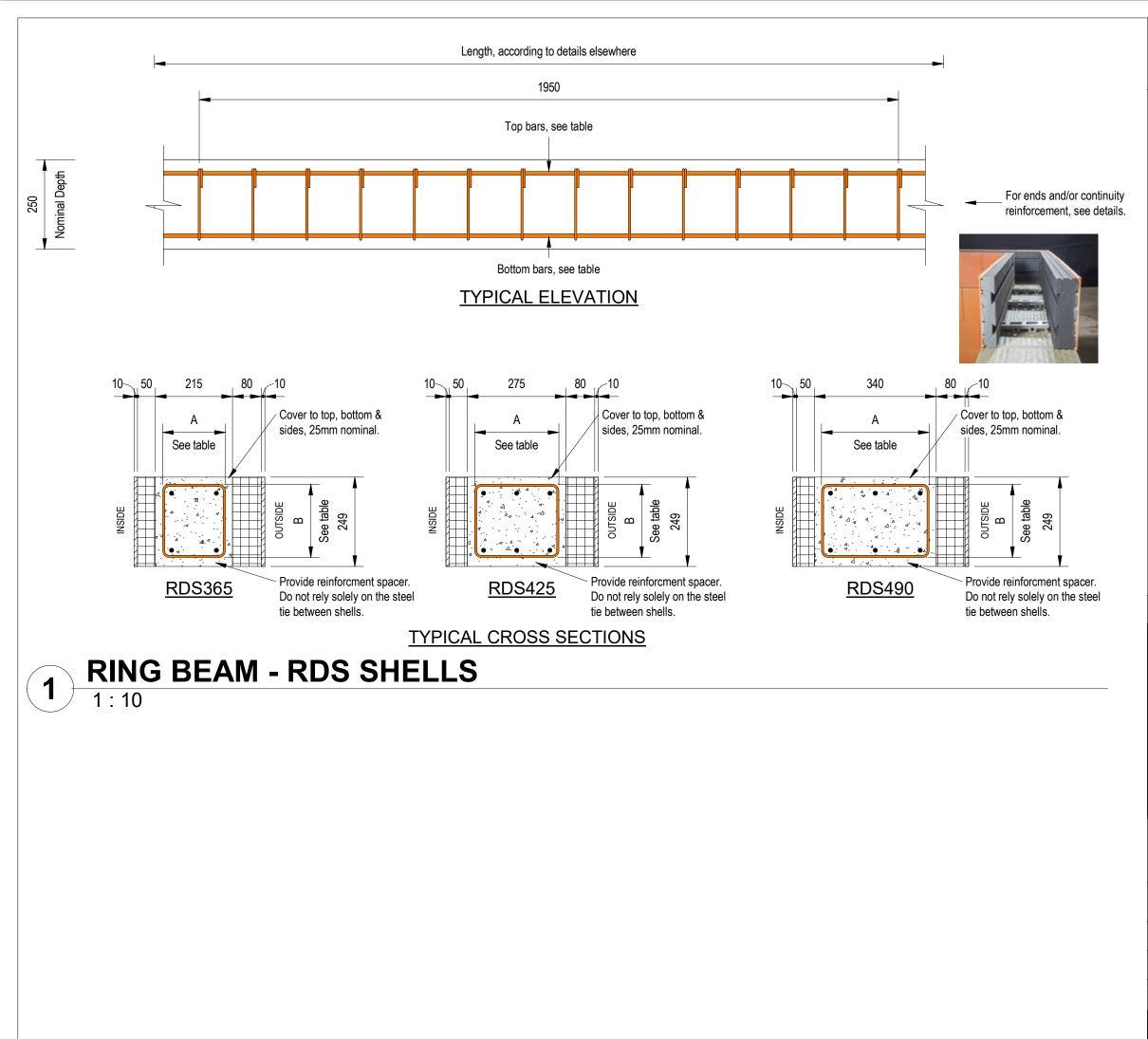
When the amount of reinforcement and concrete type has been chosen, usually by, or under the guidance of, a structural engineer, the scheduled reinforcement is placed inside the units as shown in the details enclosed. Where continuity is required, the necessary reinforcement is deployed, also as shown. Then, the concrete is placed and vibrated to consolidate it.

In the case of cast in-situ applications, there is nothing remaining to do. In the case of pre-cast units, these may be lifted into place and bedded on a suitable bed of mortar. Note that, if cast in-situ, several days may be required for concrete curing, before they can be fully loaded (the length of time may vary - an engineer may advise). JUWO Evolved SmartWall[™] Ring Beams Designs



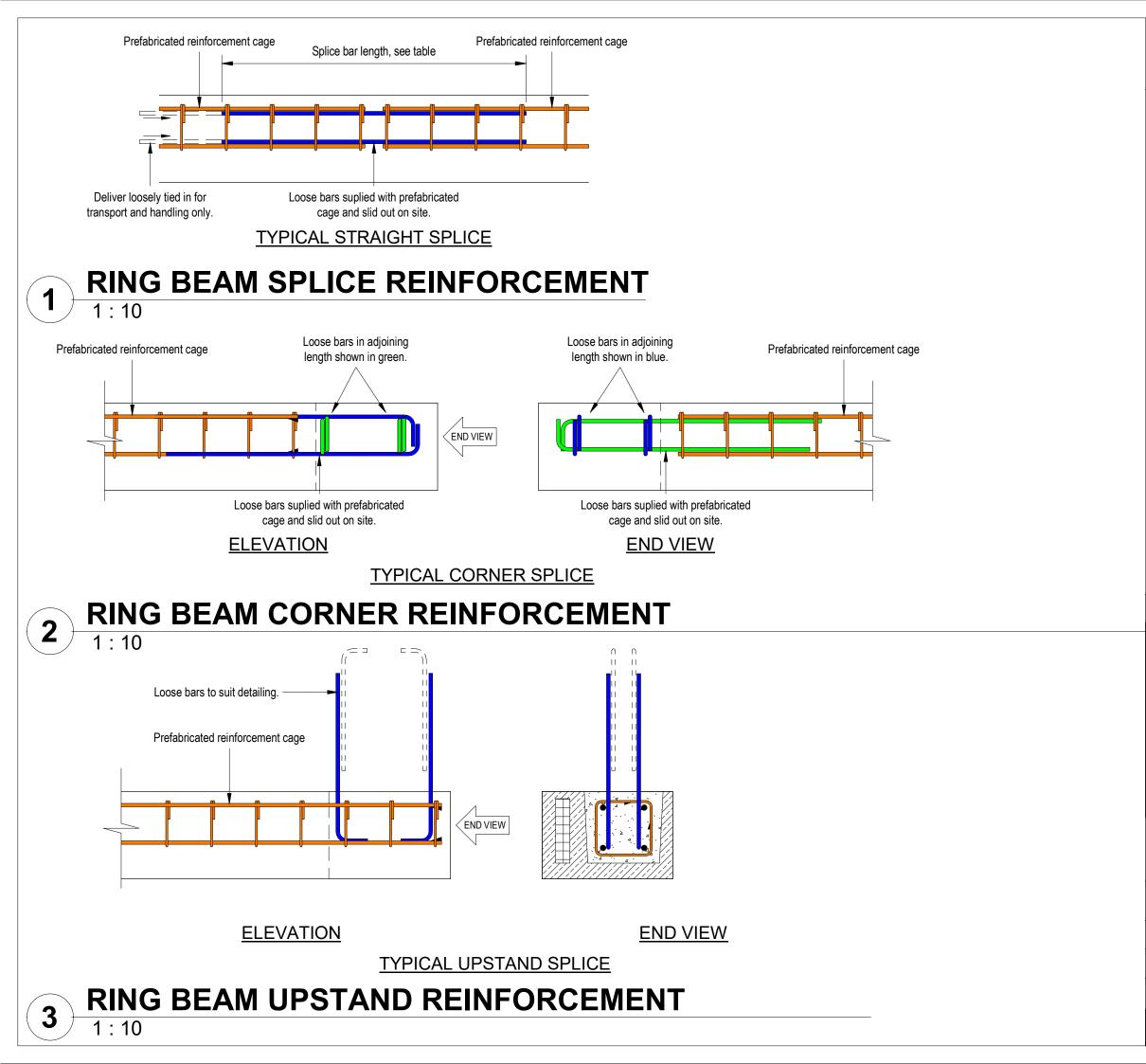
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2.	Concrete shall be adequately vibrated to consolidate it. Do not damage the blocks, shells or insulation if using poker vibrators.					
3.	Reinforcement shall be Grade B500B in accordance with BS 4449. Lap lengths shall be as specified. The lap length depends on the					
4.						
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Lintel load tables

The following loads are ultimate design loads, according to BS EN 1996-1, based on the simplifying and conservative assumption that the span is simply supported and the load is applied in the form of a uniformly distributed load. Allowance has been made for the weight of the lintel. When selecting a suitable load and span, the load here should be compared against factored applied loads, in accordance with BS EN 1991-1.

The allowable UDL shown is calculated as the minimum controlled by flexure, shear, deflection and bearing, assuming a simply supported span. Bearing has been calculated assuming direct bearing on a block of mean crushing strength 8MPa and of a bearing length as shown in the table, taking into account an elastic stress distribution and eccentricty 1/6 of the bearing length.

It is the users' responsibility to ensure that this data is used only by persons compentent to do so and who have sufficient understanding and experience of the necessary engineering principals.

U-block and WU- block lintels

	LU4	LU5	LU6	LU7	LU8	LU9	LU10
O/A Length (mm)	970	1210	1455	1695	1940	2180	2425
Bearing Length (mm)	125	125	125	250	250	250	250
Clear span (mm)	720	960	1205	1195	1440	1680	1925
U175	31.9	24.3	19.5	20.9	153	11.7	9.1
U240	42.8	32.6	26.1	41.5	30.4	23.3	18.2
U300	54.6	41.6	33.3	41.5	30.4	23.2	18.2
U365	65.1	49.5	39.7	61.4	44.9	34.4	26.9
U425	77.5	59.1	47.4	64.7	47.6	36.5	28.7
U490	90.2	68.8	55.2	66.1	48.7	37.4	29.3
WU300	38.3	29.2	23.4	44	32.5	25	26.1
WU365	49.1	14.5	30	44.5	32.8	25.2	19.8
WU425	57.1	43.5	34.9	66.5	49.1	37.8	29.8
WU490	69.9	53.3	42.8	67	49.5	38.1	30

RDS Lintels

	LR100	LR125	LR150	LR175	LR200	LR225	LR250
O/A Length (mm)	1000	1250	1500	1750	2000	2250	2500
Bearing Length (mm)	125	125	125	250	250	250	250
Clear span (mm)	750	1000	1250	1250	1500	1750	2000
RDS300	27.2	20.8	16.7	34.6	29	25	21.9
RDS365	29.2	30	24.1	48	36.3	28.3	22.6
RDS425	50.2	38.5	31	64	53.7	42.7	34.2
RDS490	57.1	43.5	34.9	66.5	49.1	37.8	29.8

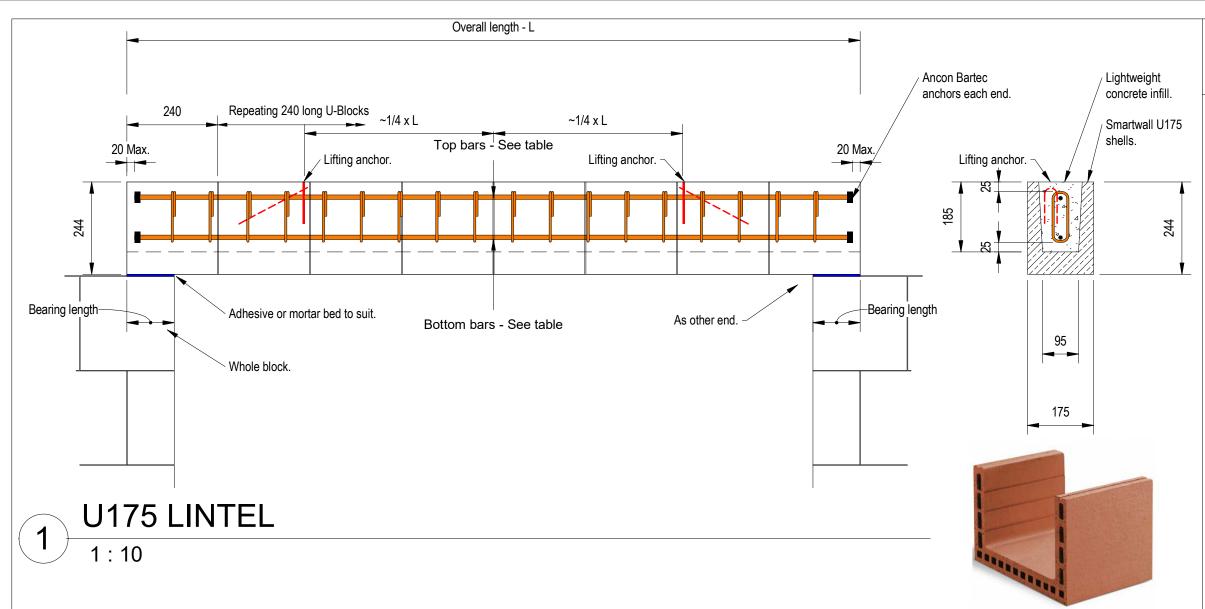
Solid Lintels

	LS100	LS125	LS150	LS175	LS200
O/A Length (mm)	1000	1250	1500	1750	2000
Bearing Length (mm)	125	125	125	125	125
Clear span (mm)	750	1000	1250	1500	1750
SW100x240	18.6	14.3	11.5	9.6	8.3
SW115x240	21.4	16.4	13.2	11.1	9.5
SW140x240	26	20	16.1	13.5	11.6
SW100x115	4.8	3.6	2.9	2.4	2
SW115x115	5.3	4	3.1	2.6	2.2
SW140x115	7.7	5.8	4.6	3.8	0

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JUWO Evolved SmartWall[™] Lintel Designs



	Spacing	Type & Size	Shape Code	Bar Length	A	В
Links	100	B6	33	500	135	55
Top bars	N/A	B12	00	See table	N/A	N/A
Bottom bars	N/A	B12	00	See table	N/A	N/A
Bar anchors	Ø12 Ty	pe BTP	12HA			

TYPE	Length L	Links	Тор	bars	Bottor	n bars	Lintel Weight	Min. bearing
		Number	Number	Length	Number	Length	(kg)	beamig
U175-LU4	970	9	1	925	1	925	55	125
U175-LU5	1210	11	1	1150	1	1150	69	125
U175-LU6	1455	14	1	1400	1	1400	83	125
U175-LU7	1695	13	1	1650	1	1650	96	250
U175-LU8	1940	16	1	1900	1	1900	110	250
U175-LU9	2180	18	1	2125	1	2125	124	250
U175-LU10	2425	21	1	2375	1	2375	138	250

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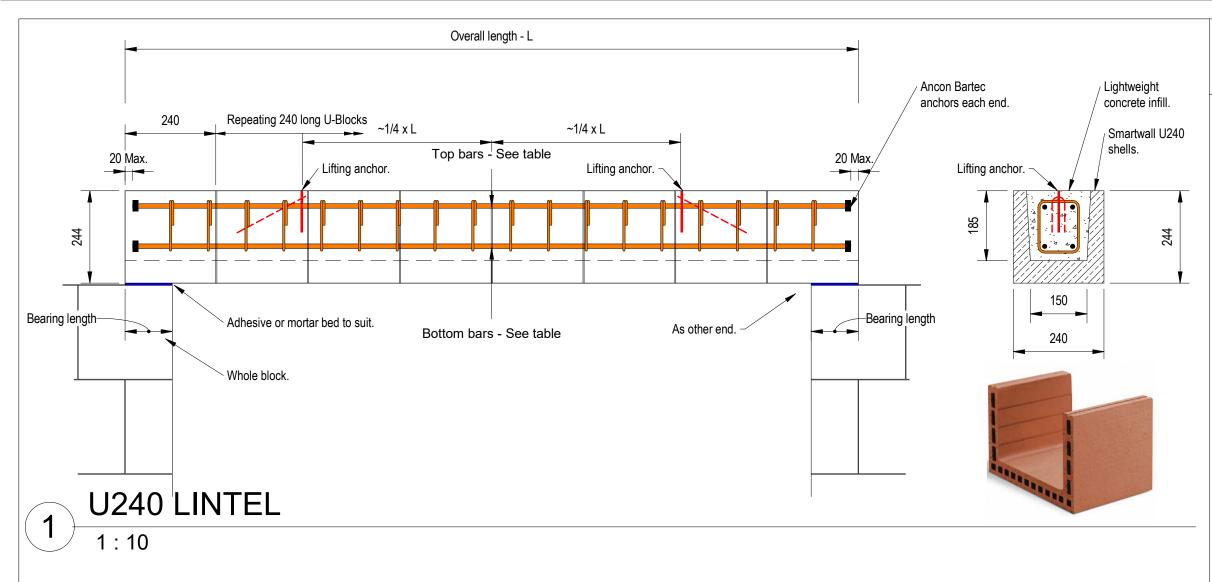
NOTE:

- · 1. Concrete shall be lightweight aggregate (incl. fines) concrete of density class D1.6 (nominal density not exceeding 1600kg/m³) and Stength Grade LC25/28, in accordnace with BS 8500 & BS EN 206.
- Concrete shall be adequately vibrated to consolidate it. 2.
- 3. Reinforcement shall be Grade B500B in accordance with BS 4449.
- 4. For load span tables, see sheet 130. Many combinations of material and loading exist and only a small selection is given. Other configurations may be obtained on request or may be specified by a structural engineer.
- This information is intended for persons competent to use it, 5. namely engineering technicians or engineers or such other persons who have sufficient understanding and training.
- 6. Lifting anchors cast in - where there is a central bar, stagger the anchor each side to produce balanced lift. Anchors shall be Halfen TPA-FS or similar installed strictly in accordance with the manufacturer's instructions. Supply any additional reinforcement necessary.
- DO NOT CUT, unless cut end has at least 500mm bearing. 7.

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	Spacing	Type & Size	Shape Code	Bar Length	A	В
Links	100	B6	51	600	100	135
Top bars	N/A	B12	00	See table	N/A	N/A
Bottom bars	N/A	B12	00	See table	N/A	N/A
Bar anchor	Ø12 Ty	vpe BTP	12HA			

TYPE	Length L	Links	Тор	bars	Bottor	n bars	Lintel Weight	Min. bearing
		Number	Number	Length	Number	Length	(kg)	beamy
U240-LU4	970	9	2	925	2	925	80	125
U240-LU5	1210	11	2	1150	2	1150	100	125
U240-LU6	1455	14	2	1400	2	1400	120	125
U240-LU7	1695	13	2	1650	2	1650	140	250
U240-LU8	1940	16	2	1900	2	1900	160	250
U240-LU9	2180	18	2	2125	2	2125	180	250
U240-LU10	2425	21	2	2375	2	2375	200	250



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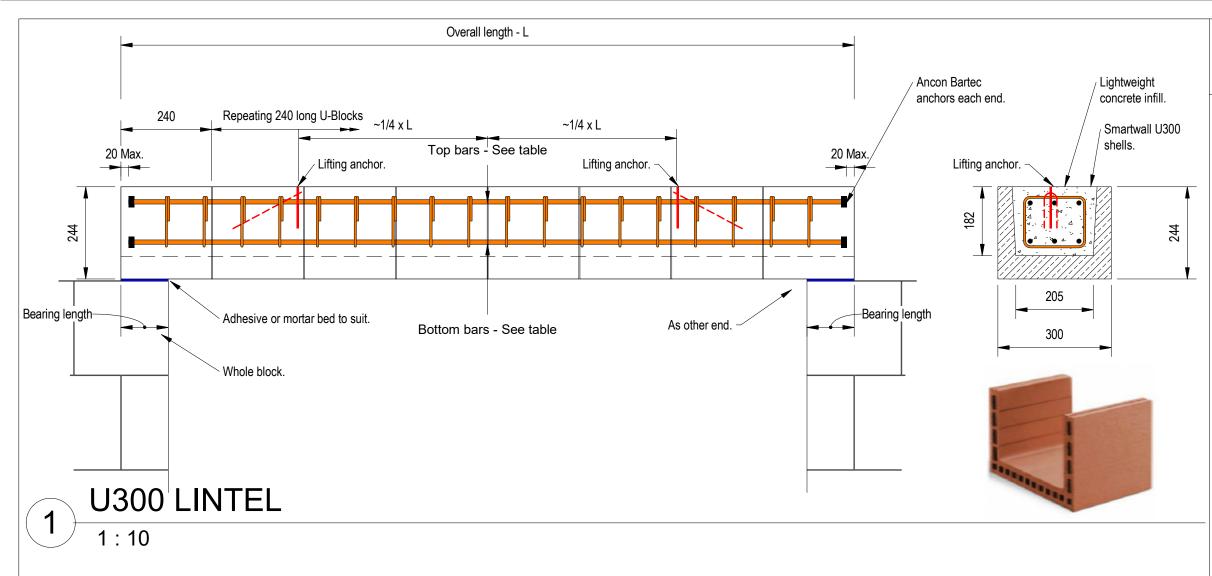
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- 4. For load span tables, see sheet 130. Many combinations of material and loading exist and only a small selection is given. Other configurations may be obtained on request or may be specified by a structural engineer.
- This information is intended for persons competent to use it, 5. namely engineering technicians or engineers or such other persons who have sufficient understanding and training.
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	Spacing	Type & Size	Shape Code	Bar Length	A	В
Links	100	B6	51	700	155	130
Top bars	N/A	B12	00	See table	N/A	N/A
Bottom bars	N/A	B12	00	See table	N/A	N/A
Bar anchor	Ø12 Ty	pe BTP	12HA			I

TYPE	Length L	Links	Тор	bars	Bottor	n bars	Lintel Weight	Min. bearing
		Number	Number	Length	Number	Length	(kg)	beamig
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U300-LU5	1210	11	2	1150	2	1150	122	125
U300-LU6	1455	14	2	1400	2	1400	147	125
U300-LU7	1695	13	2	1650	2	1650	171	250
U300-LU8	1940	16	2	1900	2	1900	196	250
U300-LU9	2180	18	2	2125	2	2125	220	250
U300-LU10	2425	21	2	2375	2	2375	245	250



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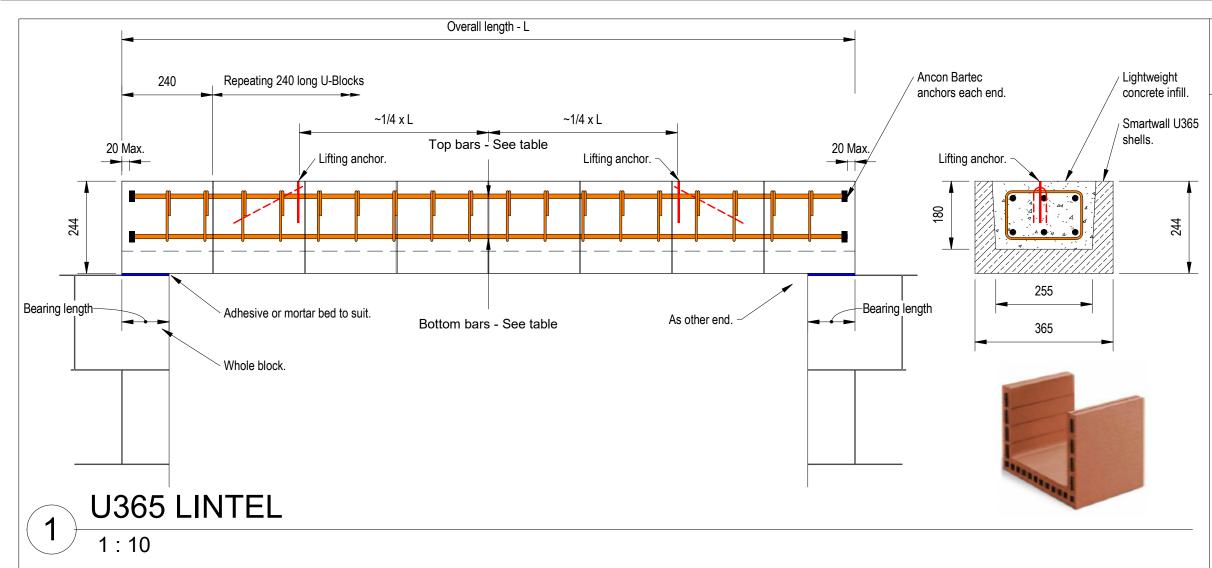
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SUITABLITY SO	LOD N/C		MODEL VERSIO P01	ON CODE				
JUWÖ-Evolved S Thermoplan Clayblo		stem	** JU \	NQ				
Trehannick Saw Mills PL30 3JW	SMART www.juwo-smart	WALL						
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DATA	4				
TITLE								
	LINTEL TY	PE U	300					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22	2				
SCALE	A3		ECT REF. EDH-ZZ-00-DR-S	3-000				
DRAWING NUMBER	103		RE	V				

	Spacing	Type & Size	Shape Code	Bar Length	A	В
Links	100	B6	51	775	195	130
Top bars	N/A	B12	00	See table	N/A	N/A
Bottom bars	N/A	B12	00	See table	N/A	N/A
Bar anchor	Ø12 Ty	pe BTP	12HA			1

TYPE	Length L	Links	Тор	bars	Bottor	m bars	Lintel	Min.
		Number	Number	Length	Number	Length	Weight (kg)	bearing
U365-LU4	970	9	3	925	3	925	117	125
U365-LU5	1210	11	3	1150	3	1150	146	125
U365-LU6	1455	14	3	1400	3	1400	175	125
U365-LU7	1695	13	3	1650	3	1650	204	250
U365-LU8	1940	16	3	1900	3	1900	234	250
U365-LU9	2180	18	3	2125	3	2125	262	250
U365-LU10	2425	21	3	2375	3	2375	292	250



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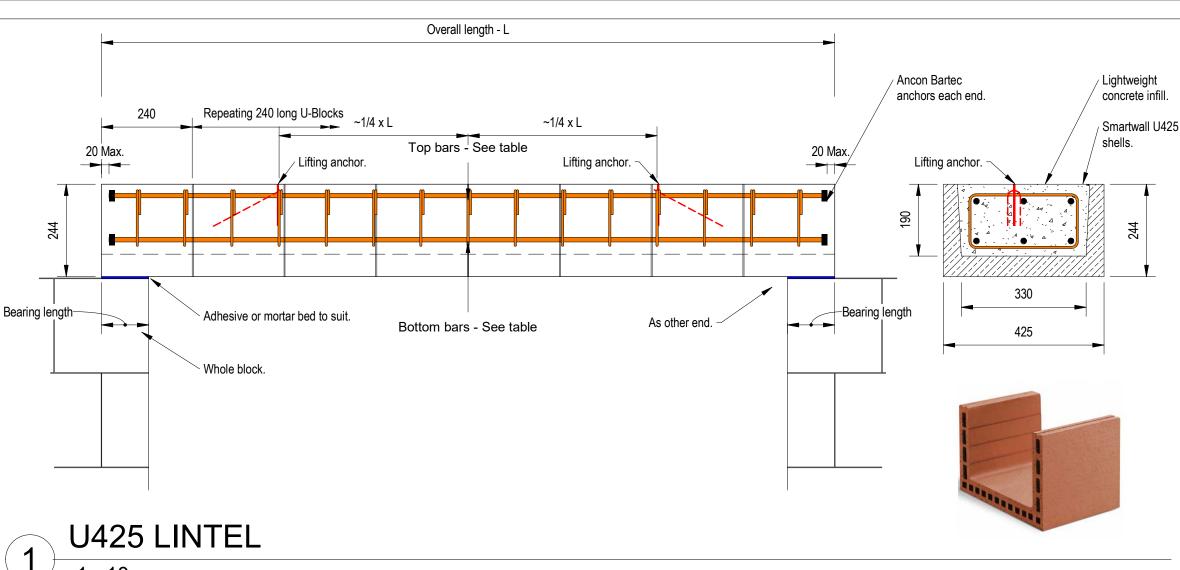
NOTE:

- Concrete shall be lightweight aggregate (incl. fines) concrete of 1. density class D1.6 (nominal density not exceeding 1600kg/m³) and Stength Grade LC25/28, in accordnace with BS 8500 & BS EN 206.
- Concrete shall be adequately vibrated to consolidate it. 2.
- 3. Reinforcement shall be Grade B500B in accordance with BS 4449.
- 4. For load span tables, see sheet 130. Many combinations of material and loading exist and only a small selection is given. Other configurations may be obtained on request or may be specified by a structural engineer.
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SUITABLITY SO	LOD N/C		MODEL VERSION COD P01	Ē			
JUWÖ-Evolved S Thermoplan Clayblo		stem		5			
Trehannick Saw Mills PL30 3JW	SMARTWAL	_∟					
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PROJECT							
SMARTV	VALL BONDI	NG &	LINTEL DATA				
TITLE							
	LINTEL TY	PE U	365				
CLIENT							
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22				
SCALE	A3		JECT REF.				
			EDH-ZZ-00-DR-S-000				
DRAWING NUMBER	104		REV				

/ · · ·	10							
	Spacing	Type & Size	Shape Code	Bar Length	A	В		TYPE
Links	125	B6	51	975	280	140	-	U425-LU4
Top bars	N/A	B12	00	See table	N/A	N/A		U425-LU5
Bottom bars	N/A	B12	00	See table	N/A	N/A		U425-LU6
Bar anchor	Ø12 Ty	/pe BTF	12HA					U425-LU7

TYPE Length L		Links	Тор	bars	Bottor	n bars	Lintel	Min.
		Number	Number	Length	Number	Length	Weight (kg)	bearing
U425-LU4	970	7	3	925	3	925	146	125
U425-LU5	1210	9	3	1150	3	1150	182	125
U425-LU6	1455	11	3	1400	3	1400	219	125
U425-LU7	1695	11	3	1650	3	1650	255	250
U425-LU8	1940	13	3	1900	3	1900	292	250
U425-LU9	2180	15	3	2125	3	2125	328	250
U425-LU10	2425	17	3	2375	3	2375	365	250



1:10

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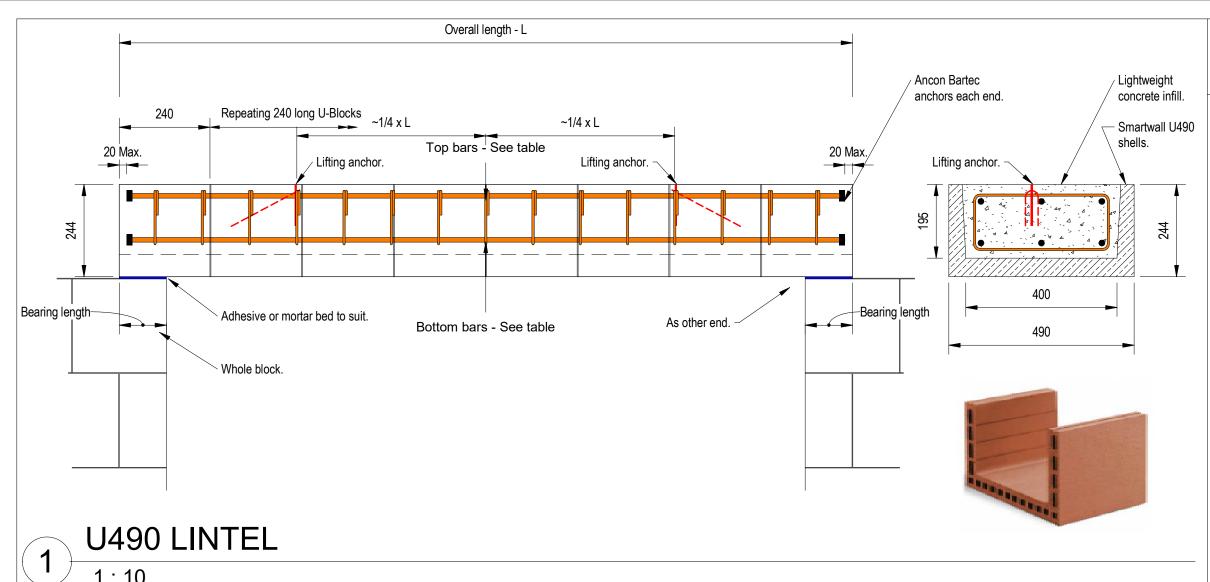
NOTE:

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- DO NOT CUT, unless cut end has at least 500mm bearing. 7.

SUITABLITY SO	LOD N/C		MODEL VE P01	RSION CODE				
JUWÖ-Evolved S Thermoplan Clayblo		stem	** J L	JMQ				
Trehannick Saw Mills PL30 3JW	SMAR	Smartwall.co.uk						
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PROJECT								
SMARTV	SMARTWALL BONDING & LINTEL DATA							
TITLE								
	LINTEL TY	PE U	425					
CLIENT								
DRAWN BY RAB	CHECKED	BY		ATE 6/1/22				
SCALE	A3		ECT REF. EDH-ZZ-00-	DR-S-000				
DRAWING NUMBER	105			REV				

	Spacing	Type & Size	Shape Code	Bar Length	A	В	-
Links	125	B6	51	1075	350	145	U4
Top bars	N/A	B12	00	See table	N/A	N/A	U4
Bottom bars	N/A	B12	00	See table	N/A	N/A	U49
Bar anchor	Ø12 Ty	pe BTP	12HA				U4

TYPE	Length L	Links	Тор	bars	Bottor	n bars	Lintel	Min.
		Number	Number	Length	Number	Length	Weight (kg)	bearing
U490-LU4	970	7	3	925	3	925	173	125
U490-LU5	1210	9	3	1150	3	1150	215	125
U490-LU6	1455	11	3	1400	3	1400	259	125
U490-LU7	1695	11	3	1650	3	1650	302	250
U490-LU8	1940	13	3	1900	3	1900	345	250
U490-LU9	2180	15	3	2125	3	2125	388	250
U490-LU10	2425	17	3	2375	3	2375	432	250



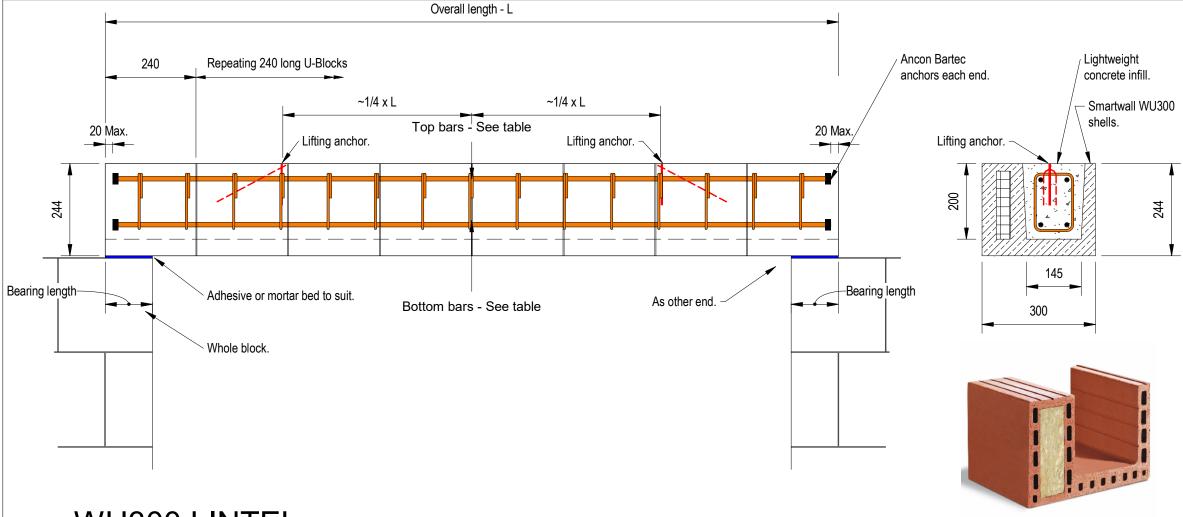
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NOTE:

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SUITABLITY SO	LOD N/C		MODEL VERSION CC P01	DE		
JUWÖ-Evolved S Thermoplan Clayble		stem	**JUW	3		
Trehannick Saw Mills PL30 3JW		nin,	SMARTWALL www.juwo-smartwall.co.uk			
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PROJECT						
SMARTV	VALL BONDI	NG &	LINTEL DATA			
TITLE						
	LINTEL TY	PE U	490			
CLIENT						
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22			
SCALE	A3		ECT REF. EDH-ZZ-00-DR-S-000			
DRAWING NUMBER	106		REV			



WU300 LINTEL 1:10

1

Type & Shape Bar Spacing Size Code Length А В B6 Links 125 51 625 95 150 B12 00 N/A N/A Top bars N/A See table N/A B12 00 N/A N/A Bottom bars See table Bar anchor Ø12 Type BTP12HA

TYPE	Length L	Links	Тор	bars	Bottom bars		Lintel	Min.
		Number	Number	Length	Number	Length	Weight (kg)	bearing
WU300-LU4	970	7	2	925	2	925	83	125
WU300-LU5	1210	9	2	1150	2	1150	104	125
WU300-LU6	1455	11	2	1400	2	1400	125	125
WU300-LU7	1695	11	2	1650	2	1650	146	250
WU300-LU8	1940	13	2	1900	2	1900	167	250
WU300-LU9	2180	15	2	2125	2	2125	188	250
WU300-LU10	2425	17	2	2375	2	2375	209	250

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SUITABLITY SO	LOD N/C		MODEL VEI P01	RSION CODE		
JUWÖ-Evolved S Thermoplan Clayblo	rstem	**JUWØ				
Trehannick Saw Mills PL30 3JW		nin,	SMARTWALL [™] www.juwo-smartwall.co.uk			
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PROJECT						
SMARTV	VALL BONDI	NG &	LINTEL D	ATA		
TITLE						
	LINTEL TYP	'E WU	300			
CLIENT						
DRAWN BY RAB	CHECKED	BY		TE /1/22		
SCALE	A3		ECT REF.			
ыла 		E	EDH-ZZ-00-D	DR-S-000		
DRAWING NUMBER	107			REV		

	TYPE	Length L	Links	Тор	Top bars		n bars	Lintel	Min.
В			Number	Number	Length	Number	Length	Weight (kg)	bearing
150	WU365-LU4	970	7	2	925	2	925	109	125
N/A	WU365-LU5	1210	9	2	1150	2	1150	135	125
N/A	WU365-LU6	1455	11	2	1400	2	1400	163	125
	WU365-LU7	1695	11	2	1650	2	1650	190	250
	WU365-LU8	1940	13	2	1900	2	1900	217	250
	WU365-LU9	2180	15	2	2125	2	2125	244	250
	WU365-LU10	2425	17	2	2375	2	2375	272	250

1:10

Links

Top bars

Bottom bars

Bar anchor

WU365 LINTEL 1

Spacing

125

N/A

N/A

Type &

Size

B6

B12

B12

Ø12 Type BTP12HA

Shape

Code

51

00

00

Bar

Length

725

See table

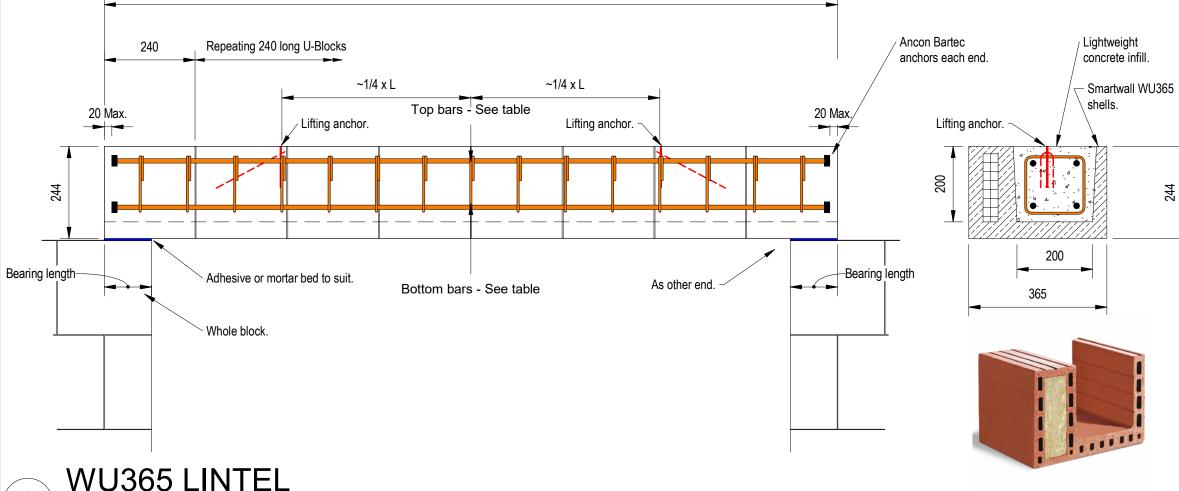
See table

А

150

N/A

N/A

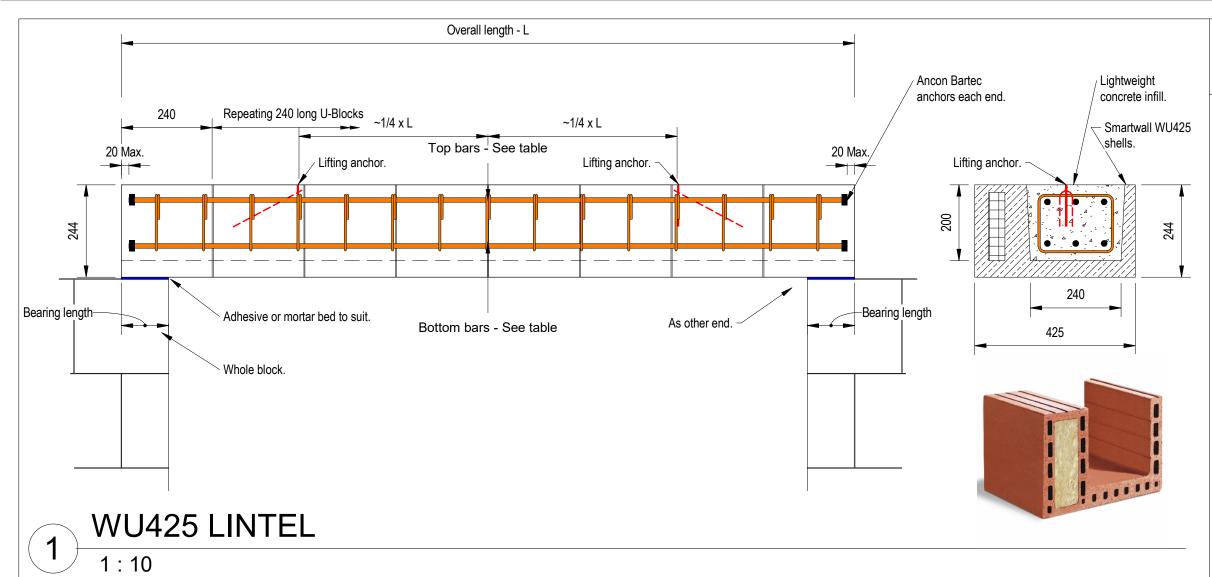


Overall length - L

NO WOF	RK SHALL BE UNDE CROSS REFERE	TO BCO AND BUIL CERTIFIC ERTAKEN ACCORDI NCED BY IT UNTIL E	Cation. NG TO TH BUILDING	IS DRAWIN REGULATIO	G OF	R OTHERS IN A SET		
NOTE:		CERTIFICATION HAS	S BEEN G	RANTED.				
1.	Concrete shall be lightweight aggregate (incl. fines) concrete of density class D1.6 (nominal density not exceeding 1600kg/m ³) and Stength Grade LC25/28, in accordnace with BS 8500 & BS EN 206.							
2.	Concrete shall be adequately vibrated to consolidate it.							
3.	Reinforcemer 4449.	nt shall be Grad	e B500	B in acco	rdan	nce with BS		
4.	4. For load span tables, see sheet 130. Many combinations of material and loading exist and only a small selection is given. Other configurations may be obtained on request or may be specified by a structural engineer.							
5.	namely engin	ion is intended f eering technicia have sufficient i	ans or e	ngineers	or s	uch other		
6.	 Lifting anchors cast in - where there is a central bar, stagger the anchor each side to produce balanced lift. Anchors shall be Halfen TPA-FS or similar installed strictly in accordance with the manufacturer's instructions. Supply any additional reinforcement necessary. 							
7. DO NOT CUT, unless cut end has at least 500mm bearing.								
SUITAI SO	BLITY	LOD N/C		MODEL P01	VE	RSION CODE		
		Smartwall™ ock Building Sy	ystem	** J	U	WÖ		
Trehan PL30 3		, St Teath, Bodr	min,	SMA	R	TWALL ^M martwall.co.uk		
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PROJE	CT							
	SMART	VALL BOND	ING &	LINTEL	. D/	ATA		
TITLE		LINTEL TY	PE WI	J365				
CLIEN	Г							
DRAW RAB	NBY	CHECKED	BY			TE /1/22		
SCALE	NTS	A3		ECT REF		DR-S-000		
DRAW	ING NUMBER	108	1			REV		

	Spacing	Type & Size	Shape Code	Bar Length	A	В
Links	125	B6	51	800	190	150
Top bars	N/A	B12	00	See table	N/A	N/A
Bottom bars	N/A	B12	00	See table	N/A	N/A
Bar anchor	Ø12 Ty	pe BTP	12HA			

TYPE	Length L	Links	Тор	bars	Bottom bars			Min.
		Number	Number	Length	Number	Length	(kg)	bearing
WU425-LU4	970	7	3	925	3	925	122	125
WU425-LU5	1210	9	3	1150	3	1150	152	125
WU425-LU6	1455	11	3	1400	3	1400	182	125
WU425-LU7	1695	11	3	1650	3	1650	213	250
WU425-LU8	1940	13	3	1900	3	1900	243	250
WU425-LU9	2180	15	3	2125	3	2125	273	250
WU425-LU10	2425	17	3	2375	3	2375	304	250



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NOTE:

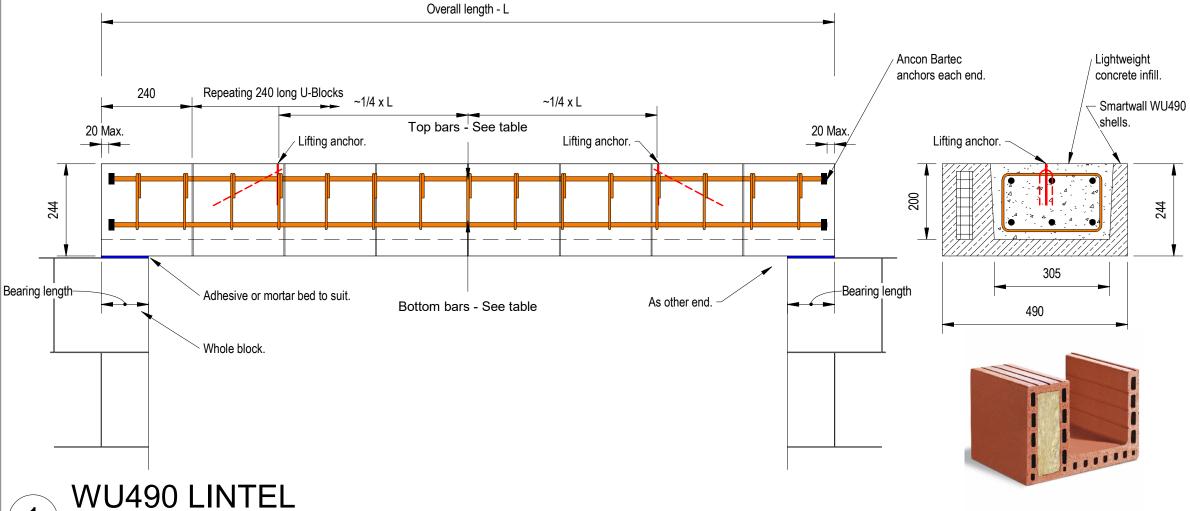
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SUITABLITY SO	LOD N/C		MODEL VER P01	RSION CODE		
JUWÖ-Evolved S Thermoplan Clayblo	** JU	WØ				
Trehannick Saw Mills PL30 3JW	, St Teath, Bodn		SMARTWALL www.juwo-smartwall.co.uk			
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PROJECT						
SMARTV	VALL BONDI	NG &	LINTEL D/	4TA		
TITLE						
	LINTEL TYP	'E WL	J425			
CLIENT						
DRAWN BY RAB	CHECKED	BY	DA 26/	.TE /1/22		
SCALE NTS	A3		ECT REF. EDH-ZZ-00-D	DR-S-000		
DRAWING NUMBER	109			REV		

	TYPE	Length L	Links	Top bars		Bottor	n bars	Lintel
В			Number	Number	Length	Number	Length	Weight (kg)
150	WU490-LU4	970	7	3	925	3	925	146
N/A	WU490-LU5	1210	9	3	1150	3	1150	182
N/A	WU490-LU6	1455	11	3	1400	3	1400	219
	WU490-LU7	1695	11	3	1650	3	1650	256
	WU490-LU8	1940	13	3	1900	3	1900	293
	WU490-LU9	2180	15	3	2125	3	2125	329
	WU490-LU10	2425	17	3	2375	3	2375	366
	150 N/A	B WU490-LU4 N/A WU490-LU5 N/A WU490-LU6 WU490-LU7 WU490-LU7 WU490-LU8 WU490-LU8	B WU490-LU4 970 N/A WU490-LU5 1210 N/A WU490-LU6 1455 WU490-LU7 1695 WU490-LU8 1940 WU490-LU9 2180	B Number 150 WU490-LU4 970 7 N/A WU490-LU5 1210 9 N/A WU490-LU6 1455 11 WU490-LU7 1695 11 WU490-LU8 1940 13 WU490-LU9 2180 15	B Number Number 150 WU490-LU4 970 7 3 N/A WU490-LU5 1210 9 3 N/A WU490-LU6 1455 11 3 WU490-LU7 1695 11 3 WU490-LU8 1940 13 3 WU490-LU9 2180 15 3	B Number Number Length 150 WU490-LU4 970 7 3 925 N/A WU490-LU5 1210 9 3 1150 N/A WU490-LU5 1210 9 3 1150 N/A WU490-LU5 1455 11 3 1400 WU490-LU7 1695 11 3 1650 WU490-LU8 1940 13 3 1900 WU490-LU9 2180 15 3 2125	B Number Number Length Number 150 WU490-LU4 970 7 3 925 3 N/A WU490-LU5 1210 9 3 1150 3 N/A WU490-LU6 1455 11 3 1400 3 N/A WU490-LU7 1695 11 3 1650 3 WU490-LU8 1940 13 3 1900 3 WU490-LU9 2180 15 3 2125 3	B Number Number Length Number Length 150 WU490-LU4 970 7 3 925 3 925 N/A WU490-LU5 1210 9 3 1150 3 1150 N/A WU490-LU5 1210 9 3 1150 3 1150 N/A WU490-LU5 1210 9 3 1160 3 1150 N/A WU490-LU6 1455 11 3 1650 3 1650 WU490-LU7 1695 11 3 1650 3 1650 WU490-LU8 1940 13 3 1900 3 1900 WU490-LU9 2180 15 3 2125 3 2125

	Spacing	Type & Size	Shape Code	Bar Length	A	В
Links	125	B6	51	950	255	150
Top bars	N/A	B12	00	See table	N/A	N/A
Bottom bars	N/A	B12	00	See table	N/A	N/A
Bar anchor	Ø12 Ty	pe BTP	12HA			

WU490



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NOTE:

Min. bearing

125

125

125

250

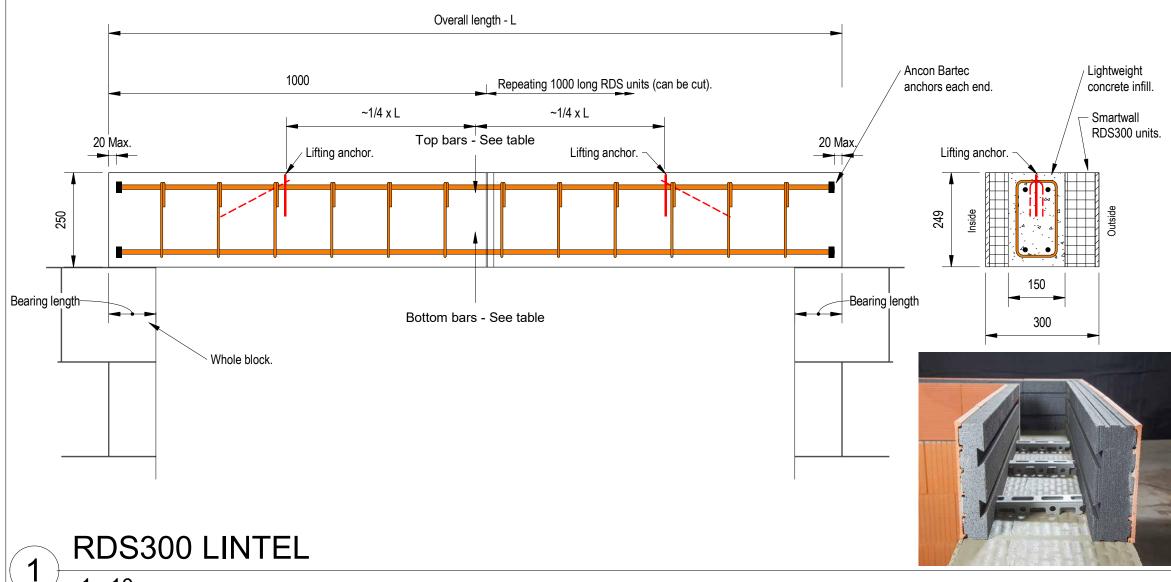
250

250

250

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SUITABLITY SO	LOD N/C		MODEL VERSION CODE P01					
JUWÖ-Evolved S Thermoplan Clayblo		* *JUW Ø						
Trehannick Saw Mills PL30 3JW	, St Teath, Bodn		SMARTWALL www.juwo-smartwall.co.uk					
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PROJECT								
SMART	VALL BONDI	NG &	LINTEL DATA					
TITLE								
	LINTEL TYP	PE WI	J490					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22					
SCALE NTS	A3		JECT REF. EDH-ZZ-00-DR-S-000					
DRAWING NUMBER	110		REV					



	Spacing	Type & Size	Shape Code	Bar Length	A	В	
Links	150	B6	51	725	100	200	
Top bars	N/A	B12	00	See table	N/A	N/A	
Bottom bars	N/A	B12 00 See table N/A N/A					
Bar anchor	Ø12 Type BTP12HA						

TYPE	Length L	Links	Тор	op bars Bottom bars		m bars	Lintel	Min.
		Number	Number	Length	Number	Length	Weight (kg)	bearing
RDS300-LR100	1000	6	2	960	2	960	66	125
RDS300-LR125	1250	8	2	1210	2	1210	82	125
RDS300-LR150	1500	10	2	1460	2	1460	99	125
RDS300-LR175	1750	10	2	1710	2	1710	115	250
RDS300-LR200	2000	11	2	1960	2	1960	132	250
RDS300-LR225	2250	13	2	2210	2	2210	148	250
RDS300-LR250	2500	15	2	1460	2	1460	165	250

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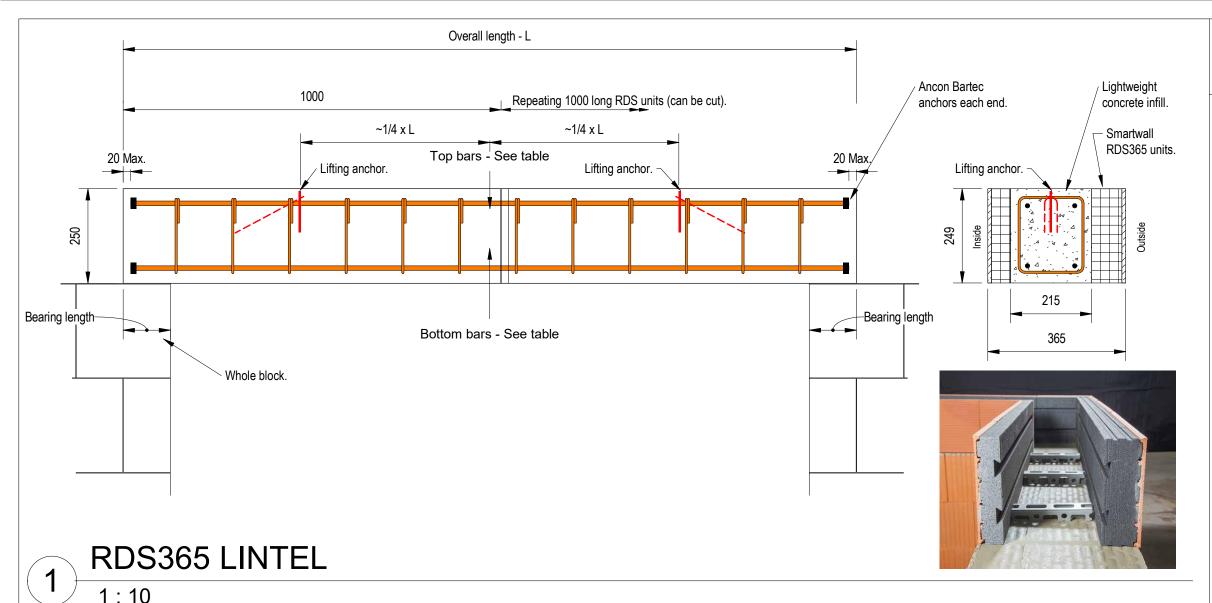
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SUITABLITY SO	LOD N/C		MODEL VERSION CODE P01					
JUWÖ-Evolved S Thermoplan Clayblo	**JUWØ							
Trehannick Saw Mills PL30 3JW		nin,	SMARTWALL www.juwo-smartwall.co.uk					
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DATA					
TITLE								
	LINTEL TYP	ERD	S300					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22					
SCALE NTS	A3		JECT REF. EDH-ZZ-00-DR-S-000					
DRAWING NUMBER	111		REV					



Type & Shape Bar В Spacing Size Code Length А B6 Links 150 51 850 165 200 Top bars N/A B12 00 See table N/A N/A N/A B12 00 See table N/A N/A Bottom bars Ø12 Type BTP12HA Bar anchor

TYPE	Length L	Links	Тор	bars	Bottor	n bars	Lintel	Min.
		Number	Number	Length	Number	Length	Weight (kg)	bearing
RDS365-LR100	1000	6	2	960	2	960	92	125
RDS365-LR125	1250	8	2	1210	2	1210	115	125
RDS365-LR150	1500	10	2	1460	2	1460	138	125
RDS365-LR175	1750	10	2	1710	2	1710	161	250
RDS365-LR200	2000	11	2	1960	2	1960	184	250
RDS365-LR225	2250	13	2	2210	2	2210	207	250
RDS365-LR250	2500	15	2	1460	2	1460	230	250

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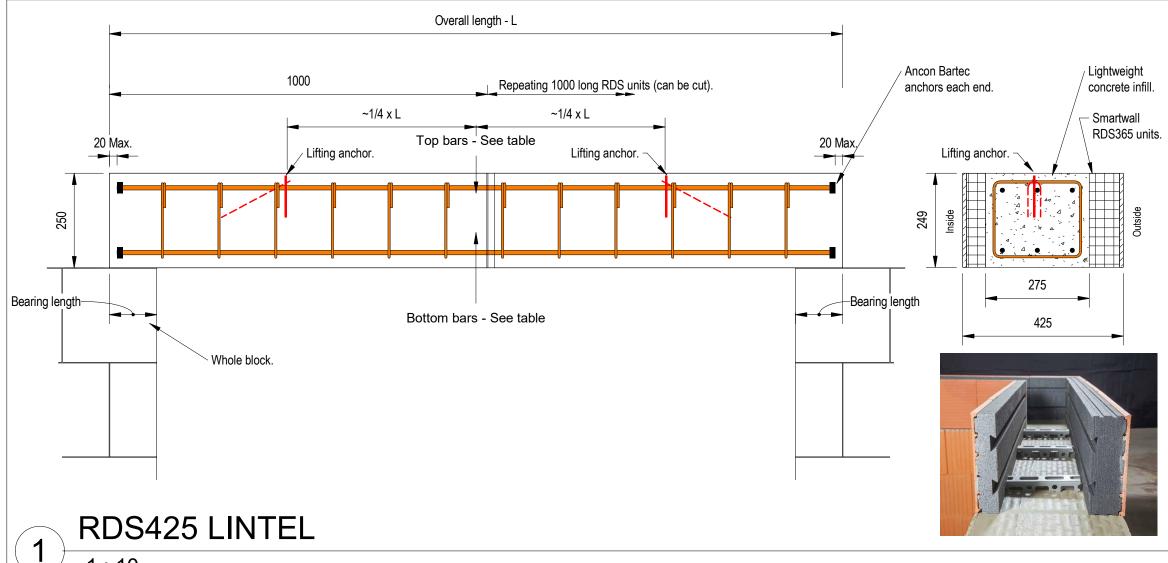
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SUITABLITY SO	LOD N/C		MODEL VER P01	SION CODE				
JUWÖ-Evolved S Thermoplan Clayblo		**JUWÖ						
Trehannick Saw Mills PL30 3JW	, St Teath, Bodn		SMARTWALL www.juwo-smartwall.co.uk					
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DA	ΛTA				
TITLE								
	LINTEL TYP	E RD	S365					
CLIENT								
DRAWN BY RAB	CHECKED	CHECKED BY		ГЕ 1/22				
SCALE	A3		JECT REF.					
	EDH-ZZ-00-D	R-S-000						
DRAWING NUMBER		REV						



	Spacing	Type & Size	Shape Code	Bar Length	A	В	
Links	150	B6	51	975	225	200	
Top bars	N/A	B12	00	See table	N/A	N/A	
Bottom bars	N/A	A B12 00 See table N/A N/A					
Bar anchor	Ø12 Ty	Ø12 Type BTP12HA					

TYPE	Length L	Links	Тор	bars	Botto	m bars	Lintel	Min.	
		Number	Number	Length	Number	Length	Weight (kg)	bearing	
RDS425-LR100	1000	6	3	960	3	960	116	125	
RDS425-LR125	1250	8	3	1210	3	1210	145	125	
RDS425-LR150	1500	10	3	1460	3	1460	174	125	
RDS425-LR175	1750	10	3	1710	3	1710	202	250	
RDS425-LR200	2000	11	3	1960	3	1960	231	250	
RDS425-LR225	2250	13	3	2210	3	2210	260	250	
RDS425-LR250	2500	15	3	1460	3	1460	289	250	

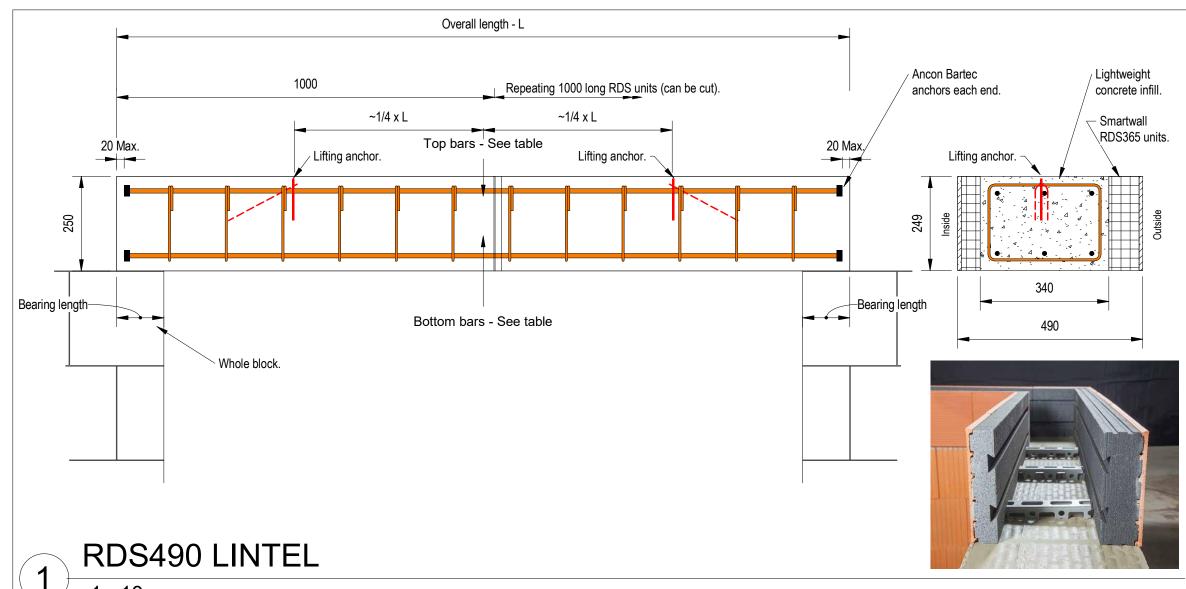
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SUITABLITY SO	LOD N/C		MODEL VERSION CODE P01					
JUWÖ-Evolved S Thermoplan Clayblo	stem	**JUWØ						
Trehannick Saw Mills PL30 3JW		nin,	SMARTWALL www.juwo-smartwall.co.uk					
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DATA					
TITLE								
	LINTEL TYP	ERD	S425					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22					
SCALE NTS	A3		JECT REF. EDH-ZZ-00-DR-S-000					
DRAWING NUMBER	113	·	REV					



	Spacing	Type & Size	Shape Code	Bar Length	A	В	
Links	150	B6	51	1100	290	200	
Top bars	N/A	B12	00	See table	N/A	N/A	
Bottom bars	N/A	B12	00	See table	N/A	N/A	
Bar anchor	Ø12 Ty	Ø12 Type BTP12HA					

TYPE	Length L	Links	Тор	bars	Bottor	n bars	Lintel	Max.	Min.
		Number	Number	Length	Number	Length	Weight (kg)	UDL ⁴ (kN/m)	bearing
RDS300-LR100	1000	6	3	960	3	960	142	27.6	125
RDS300-LR125	1250	8	3	1210	3	1210	177	27.6	125
RDS300-LR150	1500	10	3	1460	3	1460	213	27.6	125
RDS300-LR175	1750	10	3	1710	3	1710	278	55.3	250
RDS300-LR200	2000	11	3	1960	3	1960	283	55.3	250
RDS300-LR225	2250	13	3	2210	3	2210	319	55.3	250
RDS300-LR250	2500	15	3	1460	3	1460	354	53.7	250

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NOTE:

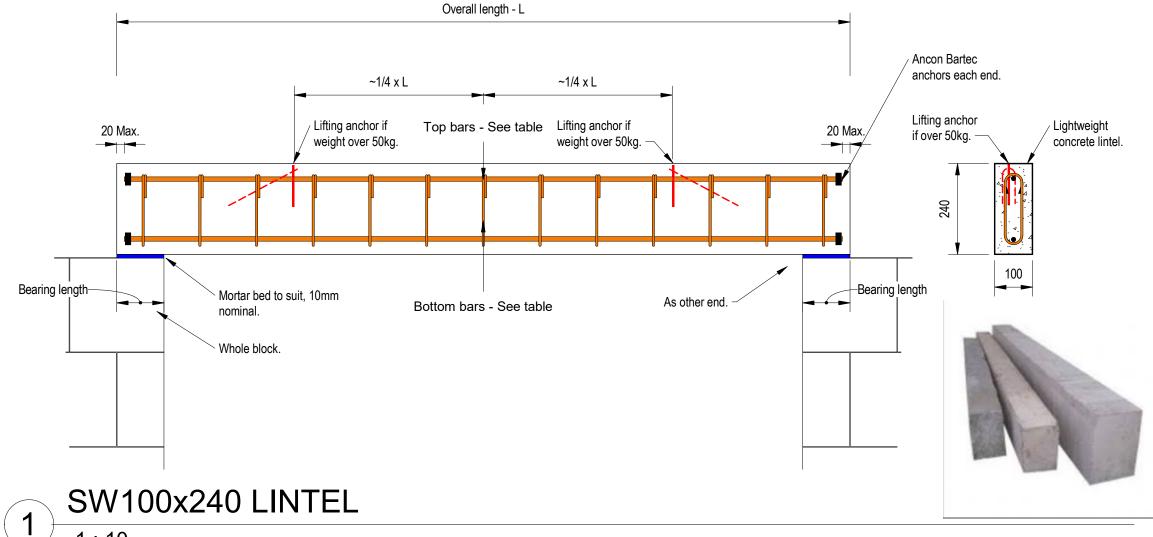
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SUITABLITY SO	LOD N/C		MODEL VERSION CODE P01					
JUWÖ-Evolved S Thermoplan Clayblo	**JUWØ							
Trehannick Saw Mills PL30 3JW		nin,	SMARTWALL www.juwo-smartwall.co.uk					
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DATA					
TITLE								
	LINTEL TYP	ERD	S490					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22					
SCALE NTS	A3		JECT REF. EDH-ZZ-00-DR-S-000					
DRAWING NUMBER	REV							

	Spacing	Type & Size	Shape Code	Bar Length	A	В	
Links	150	B6	33	600	190	50	
Top bars	N/A	N/A B12 00 See table N/A					
Bottom bars	N/A B12 00 See table N/A N/A						
Bar anchor	Ø12 Type BTP12HA						

TYPE	Length L	Links	Top bars		Bottom bars		Lintel	Min. bearing
		Number	Number	Length	Number	Length	Weight (kg)	bouring
SW100x240-LS100	1000	6	1	960	1	960	38	125
SW100x240-LS125	1250	8	1	1210	1	1210	48	125
SW100x240-LS150	1500	10	1	1460	1	1460	57	125
SW100x240-LS175	1750	10	1	1710	1	1710	67	125
SW100x240-LS200	2000	11	1	1960	1	1960	76	125

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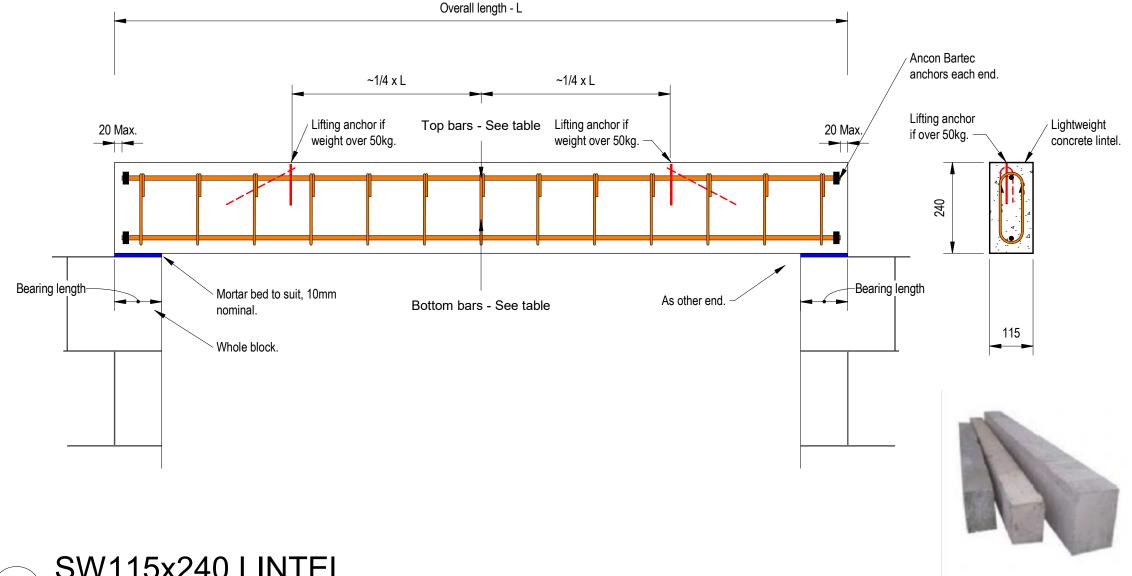
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Trehannick Saw Mills PL30 3JW	, St Teath, Bodn	SMARTWALL www.juwo-smartwall.co.uk						
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DATA					
TITLE								
L	INTEL TYPE	SW1	00x240					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22					
SCALE	A3		JECT REF. EDH-ZZ-00-DR-S-000					
DRAWING NUMBER	REV							



SW115x240 LINTEL

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	Spacing	Type & Size	Shape Code	Bar Length	A	В		
Links	150	B6	33	625	190	65		
Top bars	N/A	B12	00	See table	N/A	N/A		
Bottom bars	N/A	N/A B12 00 See table N/A N/A						
Bar anchor	Ø12 Type BTP12HA							

TYPE	Length L	Links	Top bars		Bottor	n bars	Lintel Weight	Min.
		Number	Number	Length	Number	Length	(kg)	bearing
SW115x240-LS100	1000	6	1	960	1	960	44	125
SW115x240-LS125	1250	8	1	1210	1	1210	55	125
SW115x240-LS150	1500	10	1	1460	1	1460	66	125
SW115x240-LS175	1750	10	1	1710	1	1710	77	125
SW115x240-LS200	2000	11	1	1960	1	1960	88	125

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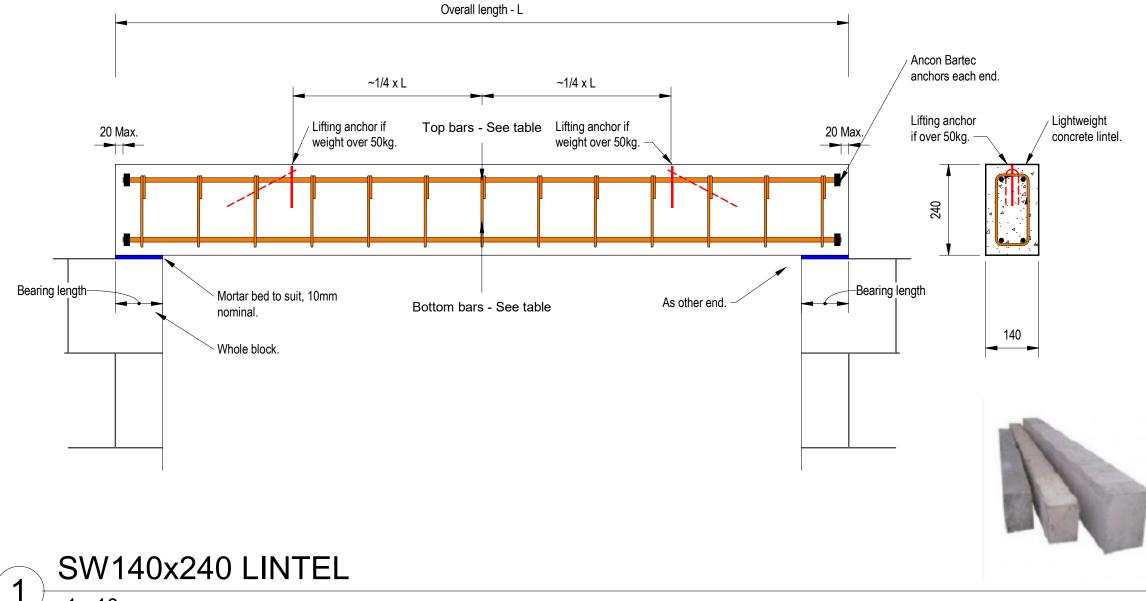
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SUITABLITY SO	LOD N/C		MODEL VERSIC P01	N CODE				
JUWÖ-Evolved S Thermoplan Clayblo	** JU V	VØ						
Trehannick Saw Mills PL30 3JW	, St Teath, Bodn		SMARTWALL www.juwo-smartwall.co.uk					
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DATA					
TITLE								
l L	INTEL TYPE	SW11	5x240					
CLIENT								
DRAWN BY RAB	CHECKED	CHECKED BY						
SCALE NTS	A3		ECT REF. EDH-ZZ-00-DR-S	-000				
DRAWING NUMBER	116		RE	V				



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	Spacing	Type & Size	Shape Code	Bar Length	A	В		
Links	150	B6	51	700	90	190		
Top bars	N/A	B12	00	See table	N/A	N/A		
Bottom bars	N/A	N/A B12 00 See table N/A N/A						
Bar anchor	Ø12 Type BTP12HA							

TYPE	Length L	Links	Top bars		Bottor	n bars	Lintel Weight	Min.
		Number	Number	Length	Number	Length	(kg)	bearing
SW140x240-LS100	1000	6	2	960	2	960	53	125
SW140x240-LS125	1250	8	2	1210	2	1210	67	125
SW140x240-LS150	1500	10	2	1460	2	1460	80	125
SW140x240-LS175	1750	10	2	1710	2	1710	93	125
SW140x240-LS200	2000	11	2	1960	2	1960	107	125

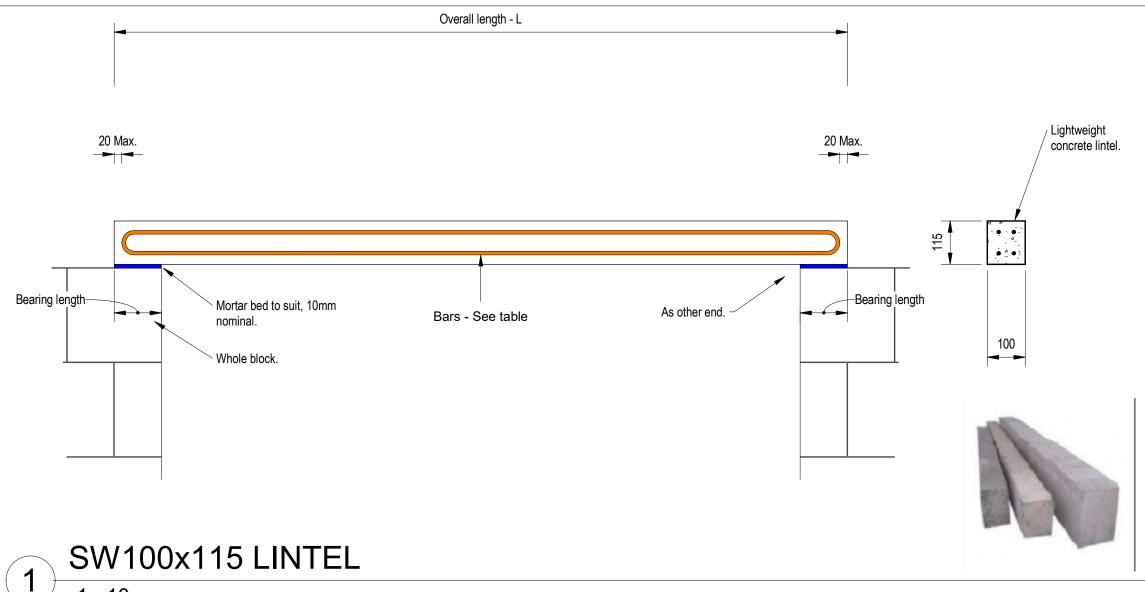
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SUITABLITY SO	LOD N/C		MODEL VER P01	RSION CODE				
JUWÖ-Evolved S Thermoplan Clayblo	** JU	WÖ						
Trehannick Saw Mills PL30 3JW	, St Teath, Bodn		SMARTWALL www.juwo-smartwall.co.uk					
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PROJECT								
SMARTV	VALL BONDI	NG &	LINTEL DA	ATA				
TITLE								
l L	INTEL TYPE	SW14	10x240					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DA 26/	те 1/22				
SCALE NTS	A3		ECT REF. EDH-ZZ-00-D	R-S-000				
DRAWING NUMBER	117			REV				



TYPE	Length L		Bars						Min.
		Type & Size	Shape Code	Bar Length	A	В	Number	Weight (kg)	bearing
SW100x115-LS100	1000	B10	33	2175	960	65	2	18	125
SW100x115-LS125	1250	B10	33	2675	1210	65	2	13	125
SW100x115-LS150	1500	B10	33	3175	1460	65	2	27	125
SW100x115-LS175	1750	B10	33	3675	1710	65	2	32	125
SW100x115-LS200	2000	B10	33	4175	1960	65	2	37	125

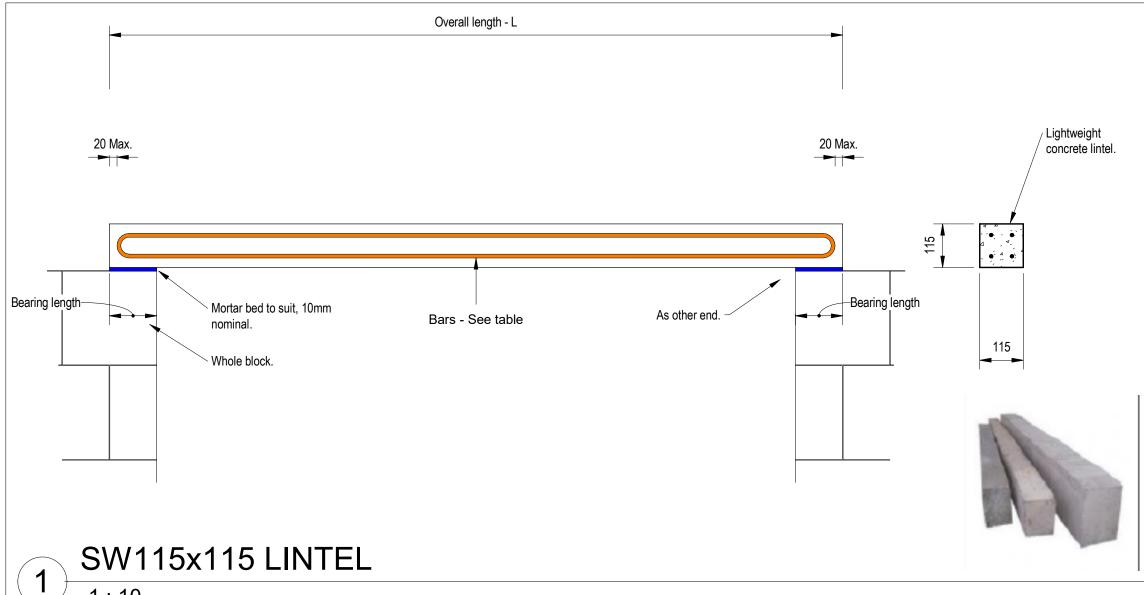
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JUWÖ-Evolved S Thermoplan Clayblo	**JUWÖ							
Trehannick Saw Mills PL30 3JW	, St Teath, Bodn	EVOLVED SMARTWALL www.juwo-smartwall.co.uk						
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PROJECT								
SMART	VALL BONDI	NG &	LINTEL DATA					
TITLE								
L	INTEL TYPE	SW10	00x115					
CLIENT								
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22					
SCALE	A3		ECT REF. EDH-ZZ-00-DR-S-000					
DRAWING NUMBER	REV							



TYPE	Length L		Bars					Lintel	Min.
		Type & Size	Shape Code	Bar Length	A	В	Number	Weight (kg)	bearing
SW100x115-LS100	1000	B10	33	2175	960	65	2	21	125
SW100x115-LS125	1250	B10	33	2675	1210	65	2	26	125
SW100x115-LS150	1500	B10	33	3175	1460	65	2	32	125
SW100x115-LS175	1750	B10	33	3675	1710	65	2	37	125
SW100x115-LS200	2000	B10	33	4175	1960	65	2	42	125

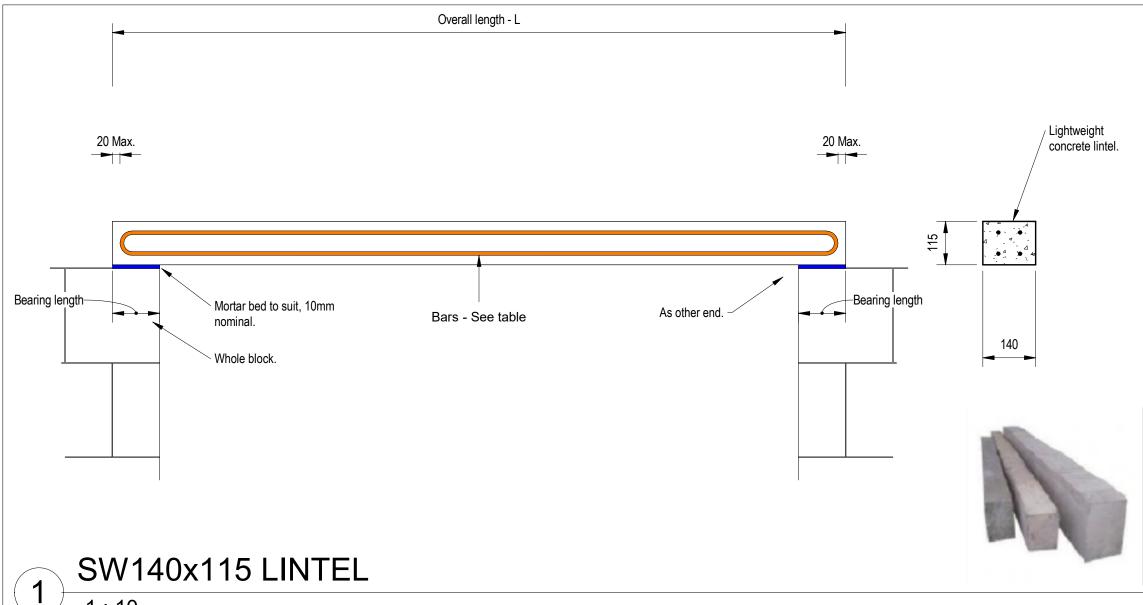
PLEASE NOTE "NOT FOR CONSTRUCTION PURPOSES USE AS A GUIDE ONLY"

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NOTE:

- 1. Concrete shall be lightweight aggregate (incl. fines) concrete of density class D1.6 (nominal density not exceeding 1600kg/m³) and Stength Grade LC25/28, in accordnace with BS 8500 & BS EN 206.
- 2. Concrete shall be adequately vibrated to consolidate it.
- 3. Reinforcement shall be Grade B500B in accordance with BS 4449.
- 4. For load span tables, see sheet 130. Many combinations of material and loading exist and only a small selection is given. Other configurations may be obtained on request or may be specified by a structural engineer.
- This information is intended for persons competent to use it, 5. namely engineering technicians or engineers or such other persons who have sufficient understanding and training.
- 6. Lifting anchors cast in - where there is a central bar, stagger the anchor each side to produce balanced lift. Anchors shall be Halfen TPA-FS or similar installed strictly in accordance with the manufacturer's instructions. Supply any additional reinforcement necessary.
- 7. DO NOT CUT, unless cut end has at least 500mm bearing.

SUITABLITY SO	LOD N/C	MOD P01	EL VERSION CODE
JUWÖ-Evolved S Thermoplan Clayblo	stem	JUWQ	
Trehannick Saw Mills PL30 3JW	, St Teath, Bodn	nin, SM	OLVED ARTWALL juwo-smartwall.co.uk
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PROJECT			
SMARTV	VALL BONDI	NG & LINT	EL DATA
TITLE			
L	INTEL TYPE	SW115x11	5
CLIENT			
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22
SCALE NTS	A3	PROJECT F	REF. Z-00-DR-S-000
DRAWING NUMBER	119		REV



TYPE	Length L		Bars					Lintel	Min.
		Type & Size	Shape Code	Bar Length	A	В	Number	Weight (kg)	bearing
SW100x115-LS100	1000	B10	33	2175	960	65	2	26	125
SW100x115-LS125	1250	B10	33	2675	1210	65	2	32	125
SW100x115-LS150	1500	B10	33	3175	1460	65	2	38	125
SW100x115-LS175	1750	B10	33	3675	1710	65	2	45	125
SW100x115-LS200	2000	B10	33	4175	1960	65	2	51	125

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NOTE:

- 1. Concrete shall be lightweight aggregate (incl. fines) concrete of density class D1.6 (nominal density not exceeding 1600kg/m³) and Stength Grade LC25/28, in accordnace with BS 8500 & BS EN 206.
- 2. Concrete shall be adequately vibrated to consolidate it.
- 3. Reinforcement shall be Grade B500B in accordance with BS 4449.
- 4. For load span tables, see sheet 130. Many combinations of material and loading exist and only a small selection is given. Other configurations may be obtained on request or may be specified by a structural engineer.
- This information is intended for persons competent to use it, 5. namely engineering technicians or engineers or such other persons who have sufficient understanding and training.
- Lifting anchors cast in where there is a central bar, stagger the 6. anchor each side to produce balanced lift. Anchors shall be Halfen TPA-FS or similar installed strictly in accordance with the manufacturer's instructions. Supply any additional reinforcement necessary.
- 7. DO NOT CUT, unless cut end has at least 500mm bearing.

SUITABLITY SO	LOD N/C		MODEL VERSION CODE P01		
JUWÖ-Evolved S Thermoplan Clayblo	**JUWØ				
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PROJECT					
SMARTV	VALL BONDI	NG &	LINTEL DATA		
TITLE					
L	INTEL TYPE	SW14	40x115		
CLIENT					
DRAWN BY RAB	CHECKED	BY	DATE 26/1/22		
SCALE	A3		ECT REF. EDH-ZZ-00-DR-S-000		
DRAWING NUMBER	120		REV		

Lintel load tables

The following loads are ultimate design loads, according to BS EN 1996-1, based on the simplifying and conservative assumption that the span is simply supported and the load is in te form of a uniformly distributed load. Allowance has been made for the weight of the lintel. When selecting a suitable load and span, the load here should be compared against factored applied loads, in accordance with BS EN 1991-1.

The allowable UDL shown is calculated as the minimum controlled by flexure, shear, deflection and bearing, assuming a simply supported span. Bearing has been calculated assuming direct bearing on a block of mean crushing strength 8MPa and of a bearing length as shown in the table, taking into account an elastic stress distribution and eccentricty 1/6 of the bearing length.

It is the users' responsibility to ensure that this data is used only by persons compentent to do so and who have sufficient understanding and experience of the necessary engineering principals.

U-block and WU- block lintels

	LU4	LU5	LU6	LU7	LU8	LU9	LU10
O/A Length (mm)	970	1210	1455	1695	1940	2180	2425
Bearing Length (mm)	125	125	125	250	250	250	250
Clear span (mm)	720	960	1205	1195	1440	1680	1925
U175	31.9	24.3	19.5	20.9	153	11.7	9.1
U240	42.8	32.6	26.1	41.5	30.4	23.3	18.2
U300	54.6	41.6	33.3	41.5	30.4	23.2	18.2
U365	65.1	49.5	39.7	61.4	44.9	34.4	26.9
U425	77.5	59.1	47.4	64.7	47.6	36.5	28.7
U490	90.2	68.8	55.2	66.1	48.7	37.4	29.3
WU300	38.3	29.2	23.4	44	32.5	25	26.1
WU365	49.1	14.5	30	44.5	32.8	25.2	19.8
WU425	57.1	43.5	34.9	66.5	49.1	37.8	29.8
WU490	69.9	53.3	42.8	67	49.5	38.1	30

RDS Lintels

	LR100	LR125	LR150	LR175	LR200	LR225	LR250
O/A Length (mm)	1000	1250	1500	1750	2000	2250	2500
Bearing Length (mm)	125	125	125	250	250	250	250
Clear span (mm)	750	1000	1250	1250	1500	1750	2000
RDS300	27.2	20.8	16.7	34.6	29	25	21.9
RDS365	29.2	30	24.1	48	36.3	28.3	22.6
RDS425	50.2	38.5	31	64	53.7	42.7	34.2
RDS490	57.1	43.5	34.9	66.5	49.1	37.8	29.8
			• ·				

Solid Lintels

	LS100	LS125	LS150	LS175	LS200
O/A Length (mm)	1000	1250	1500	1750	2000
Bearing Length (mm)	125	125	125	125	125
Clear span (mm)	750	1000	1250	1500	1750
SW100x240	18.6	14.3	11.5	9.6	8.3
SW115x240	21.4	16.4	13.2	11.1	9.5
SW140x240	26	20	16.1	13.5	11.6
SW100x115	4.8	3.6	2.9	2.4	2
SW115x115	5.3	4	3.1	2.6	2.2
SW140x115	7.7	5.8	4.6	3.8	0

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PROJECT	VALL BONDI	NG &	LINTEL D	ΑΤΑ
TITLE				
	TWALL LINTI	EL LC)ad table	S
DRAWN BY RAB	CHECKED	BY		TE /28/22
SCALE NTS	A3		IECT REF. EDH-ZZ-00-I	
DRAWING NUMBER	130	I		REV





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