



The Future is JUWO
Evolved SmartWall™

Ring Beams & Lintels



**EVOLVED
SMARTWALL™**

**The JUWO Evolved SmartWall™
Thermoplan Clayblock System**

JUWO Evolved SmartWall™ Ring Beams & Lintels

JUWO Evolved SmartWall™ Ring Beams

JUWO Evolved SmartWall™ 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 SmartWall™ 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 SmartWall™ masonry may be taken to fulfil this requirement, in whole or in part, where appropriately designed.

All the JUWO Evolved SmartWall™ 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.

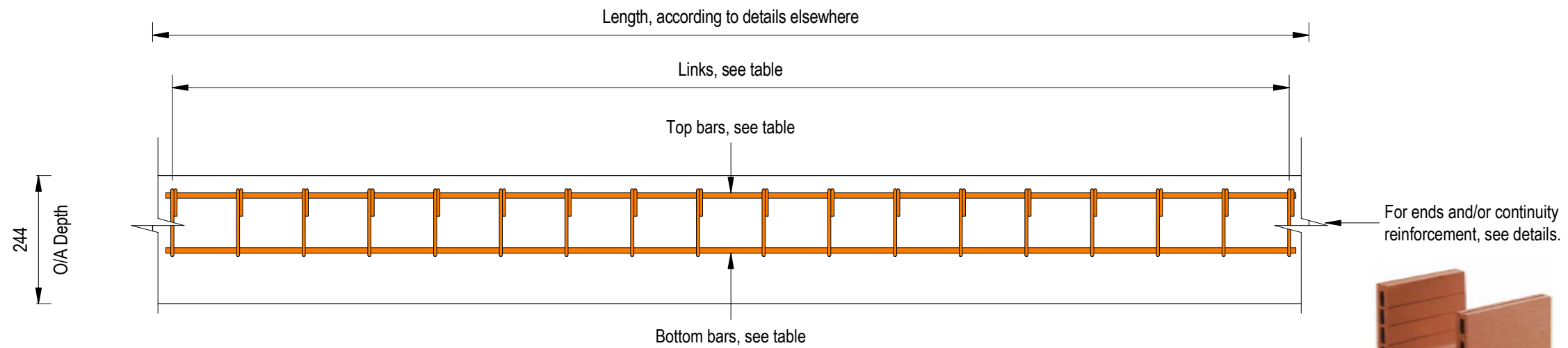
These items can be pre-cast or cast in situ. Thus, items of any size can be constructed, with in-situ cast items being more suitable for large units or Ring Beams, and pre-cast being better for smaller applications, such as short span lintels.

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.

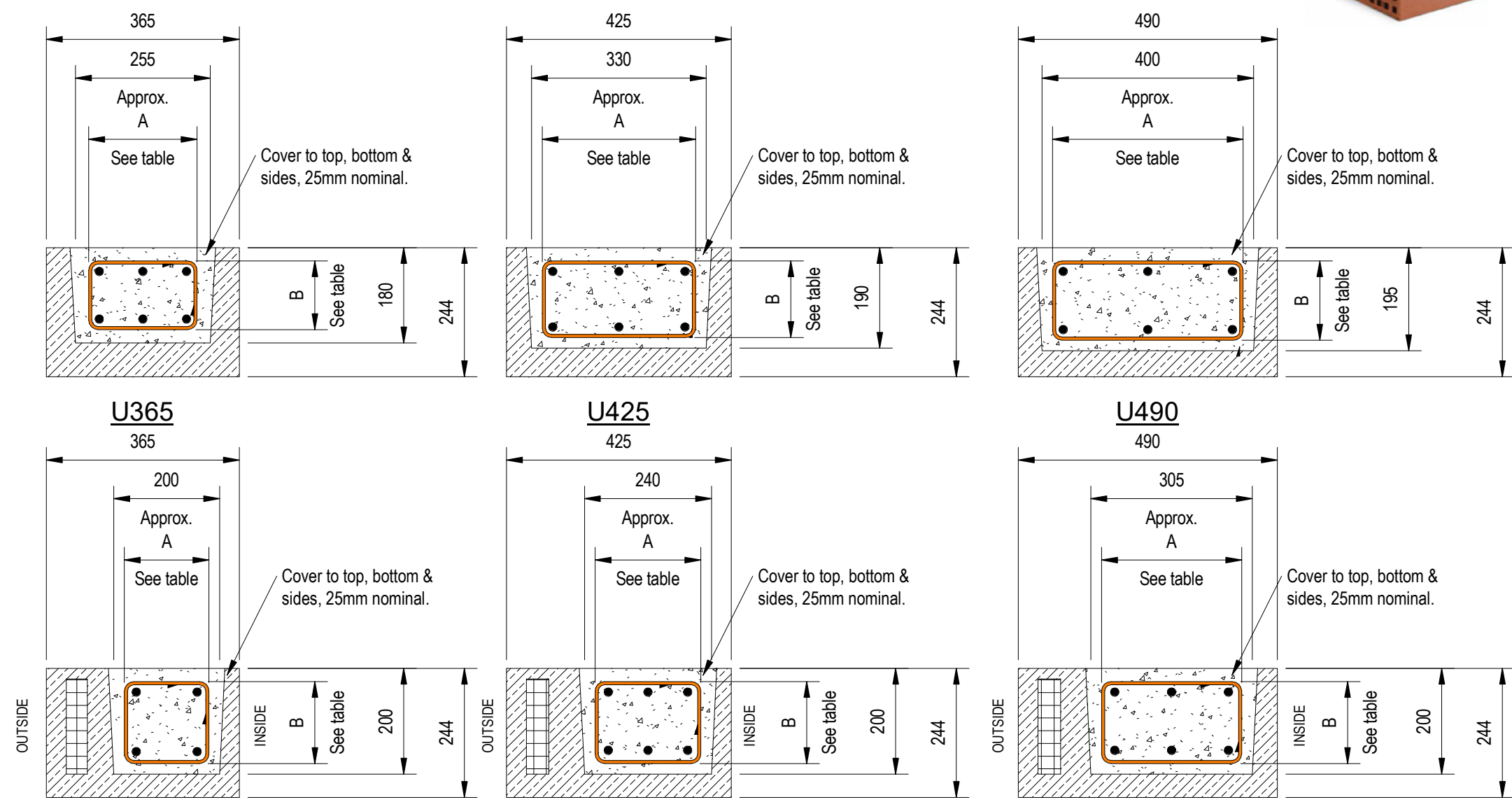
When the amount of reinforcement and concrete type has been chosen, usually by, or under the guidance of, a structural engineer, the scheduled reinforcement is placed inside the units as shown in the details enclosed. Where continuity is required, the necessary reinforcement is deployed, also as shown.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



TYPICAL ELEVATION



TYPICAL CROSS SECTIONS

RING BEAM - U-BLOCK & WU-BLOCK

1 : 10

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NO WORK SHALL BE UNDERTAKEN ACCORDING TO THIS DRAWING OR OTHERS IN A SET WITH OR CROSS REFERENCED BY IT UNTIL BUILDING REGULATIONS APPROVAL OR SER CERTIFICATION HAS BEEN GRANTED.

- NOTE:**
- Concrete shall be lightweight aggregate (incl. fines) concrete of density class D1.6 (nominal density not exceeding 1600kg/m³) and Strength Grade LC25/28, in accordance with BS 8500 & BS EN 206. Where thermal efficiency is less important and lifting is not an issue, normal weight concrete, Grade RC30 (min.) may be used. 10mm aggregate is recommended and workability class S3 (or SCC).
 - Concrete shall be adequately vibrated to consolidate it. Do not damage the blocks if using poker vibrators.
 - Reinforcement shall be Grade B500B in accordance with BS 4449.
 - For permissible loads, see structural engineer's design.
 - Reinforcement shall be specified to suit the project design. The following arrangement is typical, for guidance:

Top and bottom : B10 straight bars.
Links: B6, shape code 33 or 51 at appropriate spacing
- NOTE: FOR HEAVIER LOADING, WHERE THE BEAM SPANS OPENINGS ETC. HEAVIER REINFORCEMENT MAY BE SPECIFIED.**

SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
Thermoplan Clayblock Building System

Trehannick Saw Mills, St Teath, Bodmin,
PL30 3JW
www.juwo-smartwall.co.uk

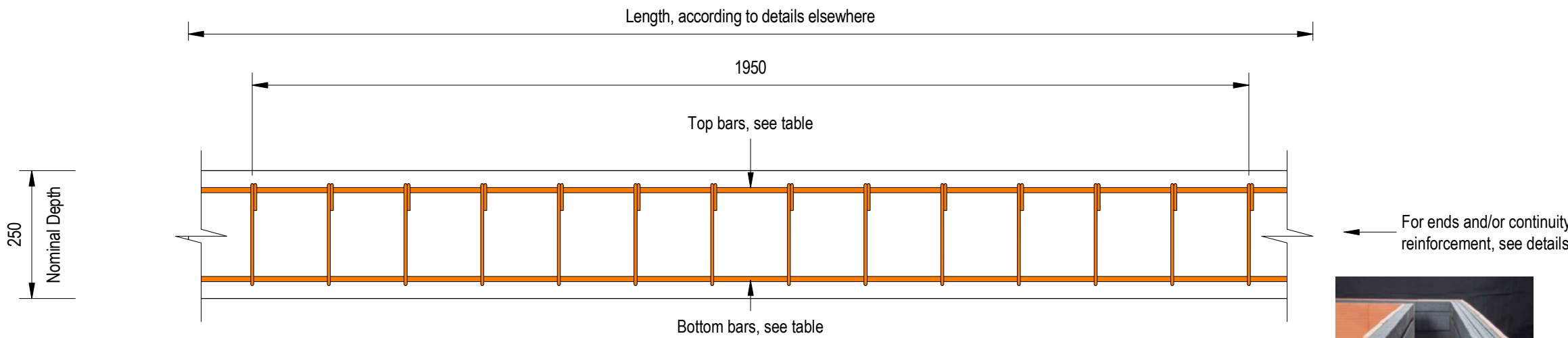
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PROJECT

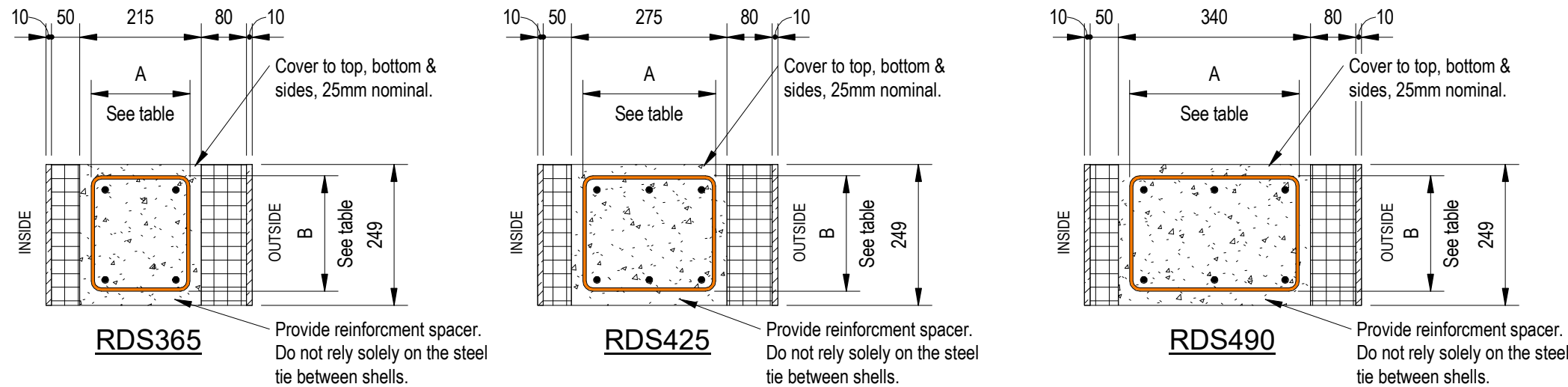
SMARTWALL BONDING & LINTEL DATA

TITLE
TYPICAL RING BEAM DETAILS - U-BLOCK TYPES

CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 121	REV	



TYPICAL ELEVATION



TYPICAL CROSS SECTIONS

RING BEAM - RDS SHELLS

1

1 : 10

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 - Concrete shall be adequately vibrated to consolidate it. Do not damage the insulation or shells if using poker vibrators.
 - Reinforcement shall be Grade B500B in accordance with BS 4449.
 - For permissible loads, see structural engineer's design.
 - Reinforcement shall be specified to suit the project design. The following arrangement is typical, for guidance:
Top and bottom : B10 straight bars.
Links: B6, shape code 51 at appropriate spacing
- NOTE: FOR HEAVIER LOADING, WHERE THE BEAM SPANS OPENINGS ETC. HEAVIER REINFORCEMENT MAY BE SPECIFIED.

SUITABILITY S0	LOD N/C	MODEL VERSION CODE P01
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PROJECT
SMARTWALL BONDING & LINTEL DATA

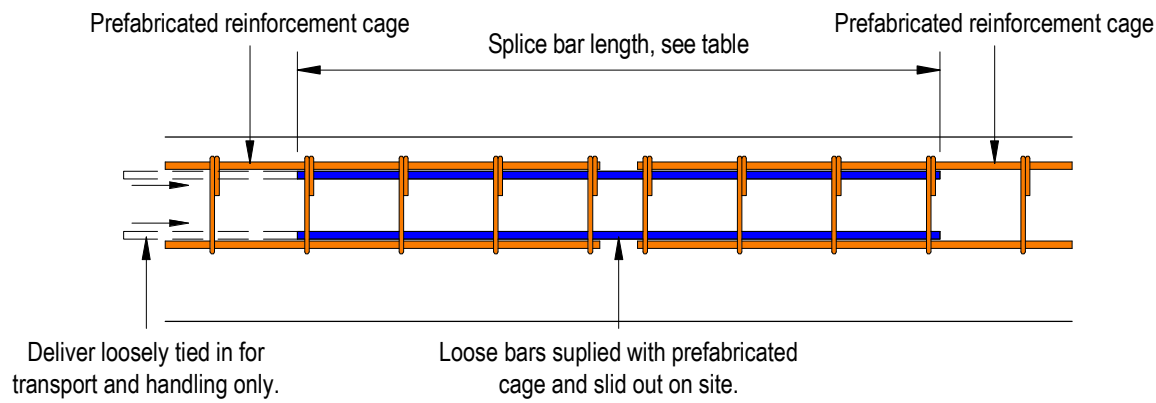
TITLE
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CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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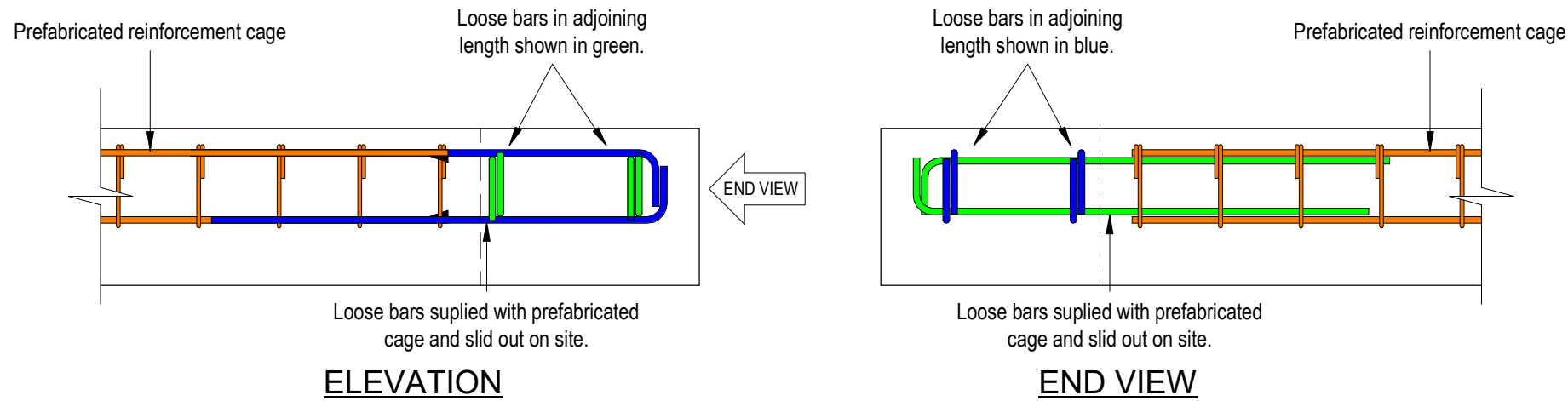
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TYPICAL STRAIGHT SPLICE

1 RING BEAM SPLICE REINFORCEMENT

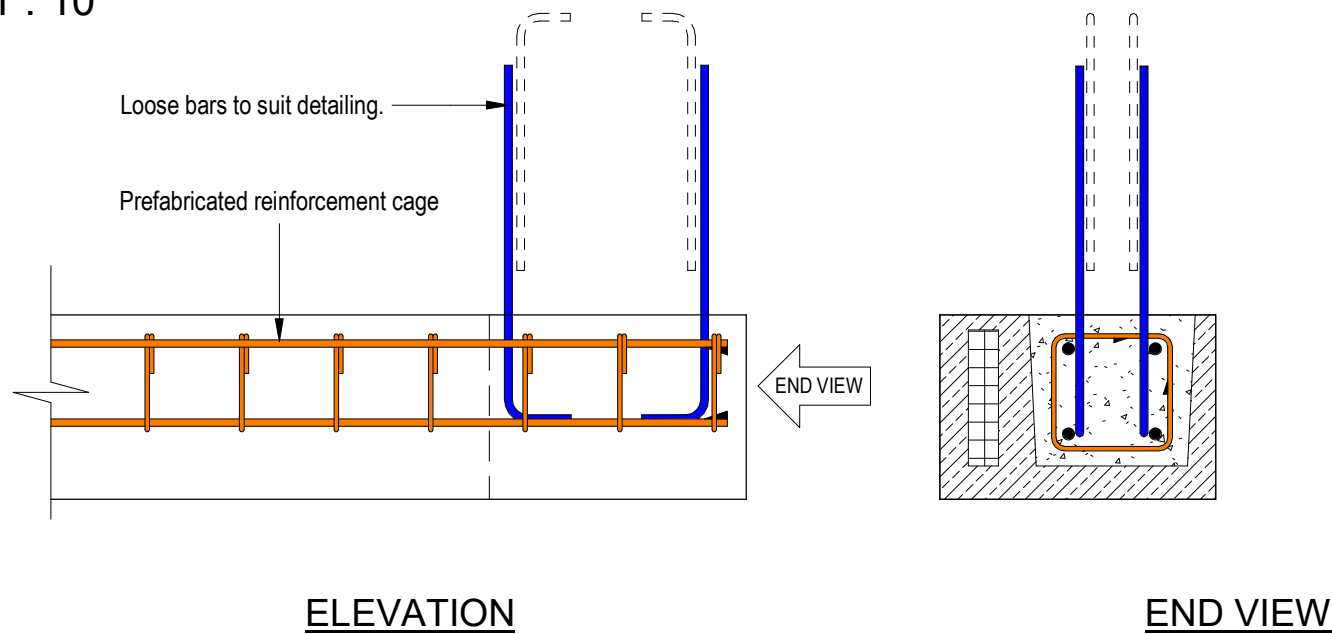
1 : 10



TYPICAL CORNER SPLICE

2 RING BEAM CORNER REINFORCEMENT

1 : 10



TYPICAL UPSTAND SPLICE

3 RING BEAM UPSTAND REINFORCEMENT

1 : 10

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- Concrete shall be adequately vibrated to consolidate it. Do not damage the blocks, shells or insulation if using poker vibrators.
- Reinforcement shall be Grade B500B in accordance with BS 4449.
- Lap lengths shall be as specified. The lap length depends on the forces that are required to be transferred. Typical and conservative lap length is 50 times the \bar{v} bar diameter - if typical 10mm reinforcement is specified, then 500mm lap length.
- Reinforcement shall be specified to suit the project design. B10 bars are typical.

SUITABILITY S0	LOD N/C	MODEL VERSION CODE P01
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PROJECT SMARTWALL BONDING & LINTEL DATA
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TITLE TYPICAL RING BEAM DETAILS - CONTINUITY

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 123	REV
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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 eccentricity 1/6 of the bearing length.

It is the users' responsibility to ensure that this data is used only by persons competent 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	15.3	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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
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PROJECT

SMARTWALL BONDING & LINTEL DATA

TITLE

SMARTWALL LINTEL LOAD TABLES

CLIENT

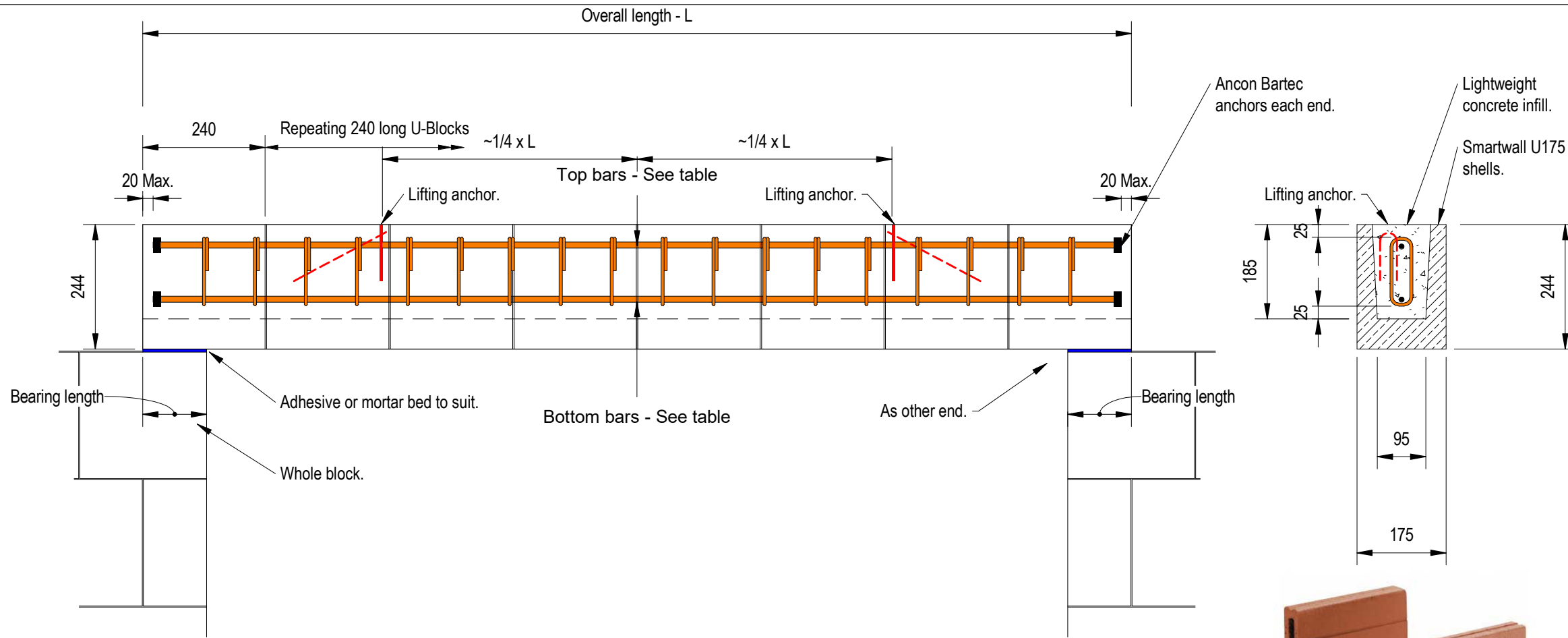
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 130	REV
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JUWO Evolved SmartWall™ Lintel Designs



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 - Concrete shall be adequately vibrated to consolidate it.
 - Reinforcement shall be Grade B500B in accordance with BS 4449.
 - 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, 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 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.

1 U175 LINTEL
1 : 10



	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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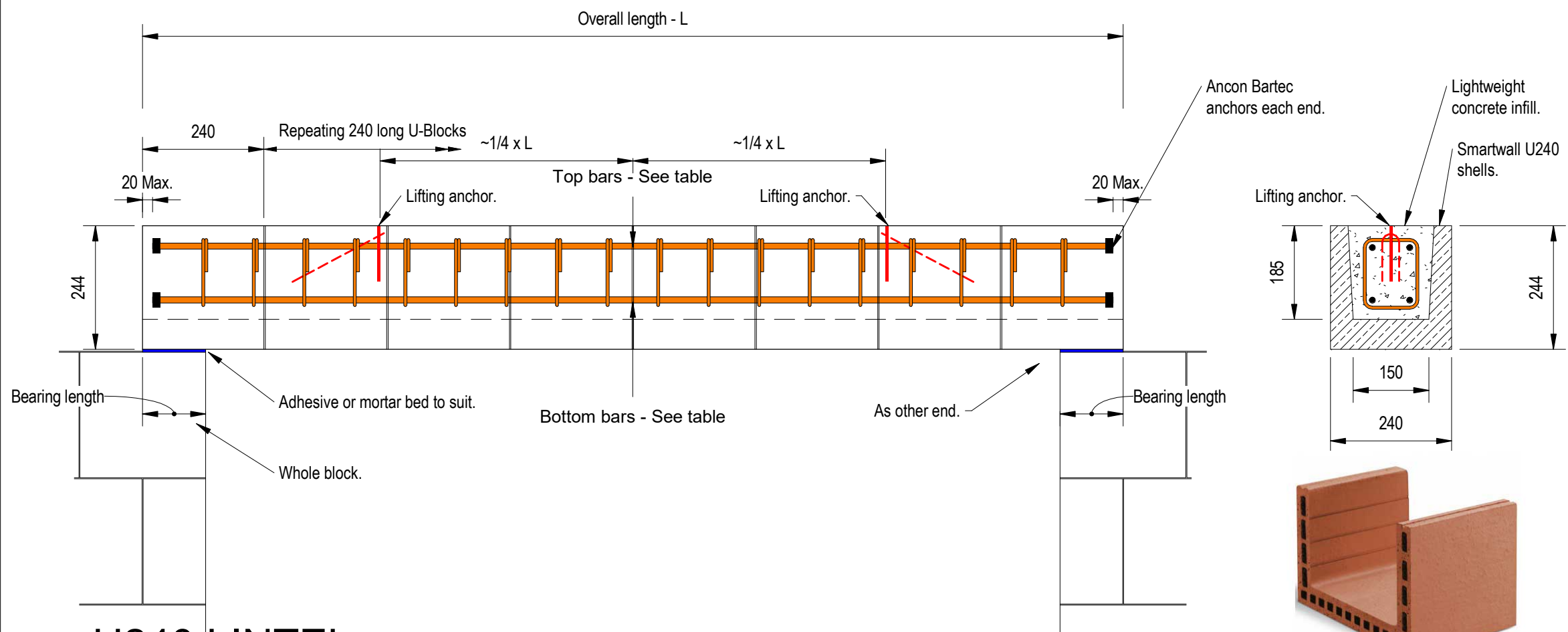
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PROJECT
SMARTWALL BONDING & LINTEL DATA

TITLE
LINTEL TYPE U175

CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 101		REV



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 - Concrete shall be adequately vibrated to consolidate it.
 - Reinforcement shall be Grade B500B in accordance with BS 4449.
 - 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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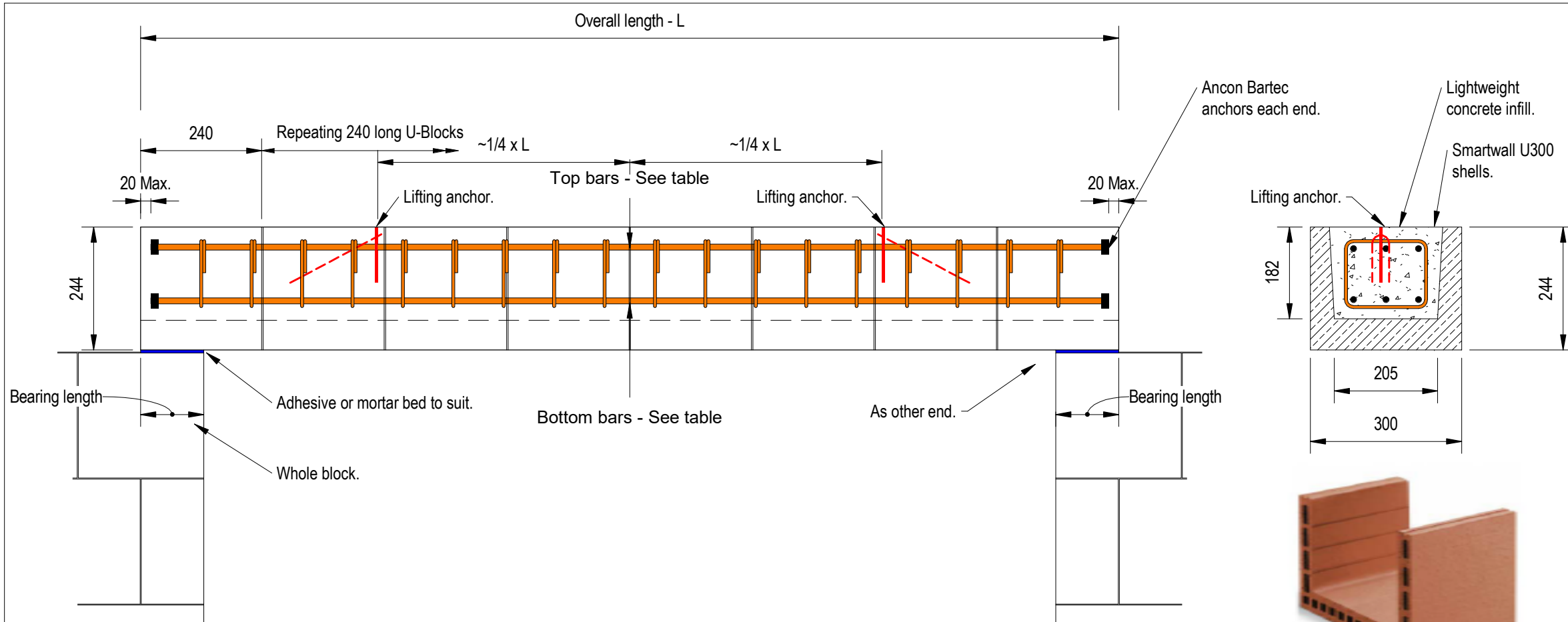
1 U240 LINTEL
1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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PROJECT SMARTWALL BONDING & LINTEL DATA		
TITLE LINTEL TYPE U240		
CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 102		REV



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

1 U300 LINTEL
1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
U300-LU4	970	9	2	925	2	925	98	125
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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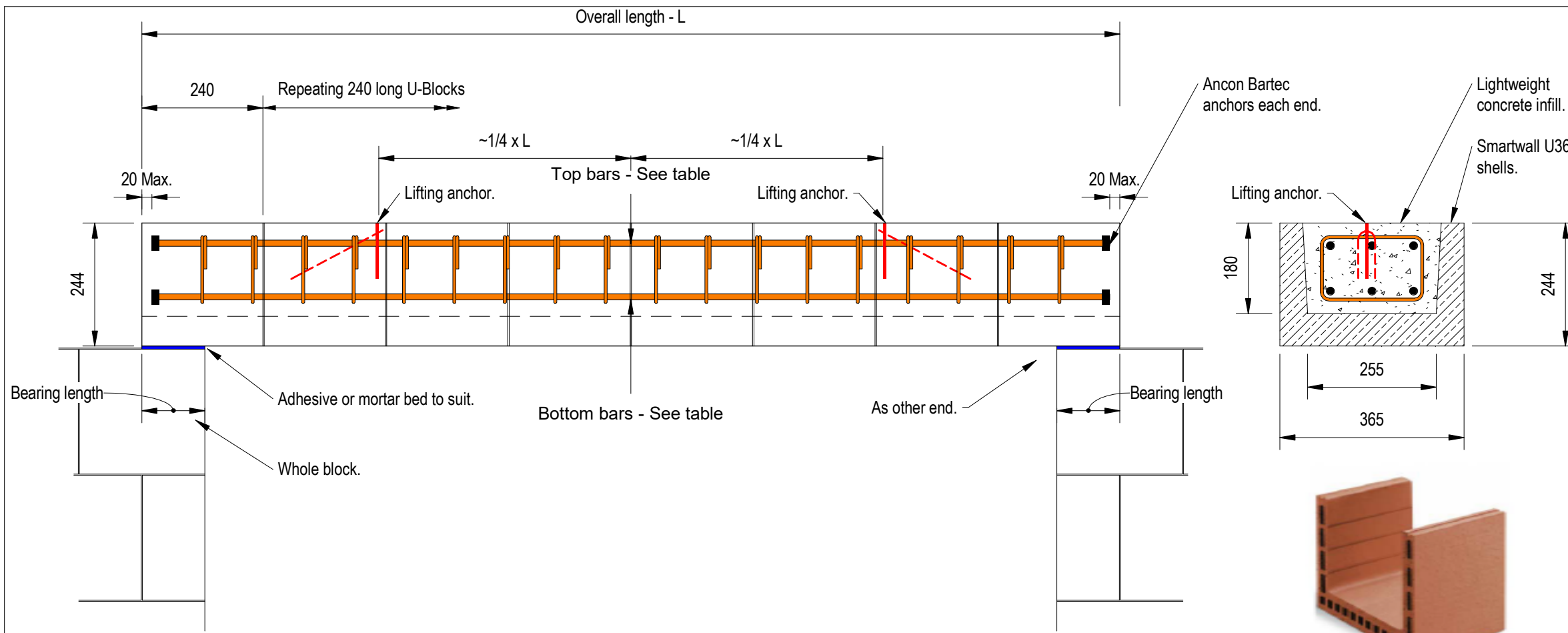

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PROJECT
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TITLE
LINTEL TYPE U300

CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 103	REV	



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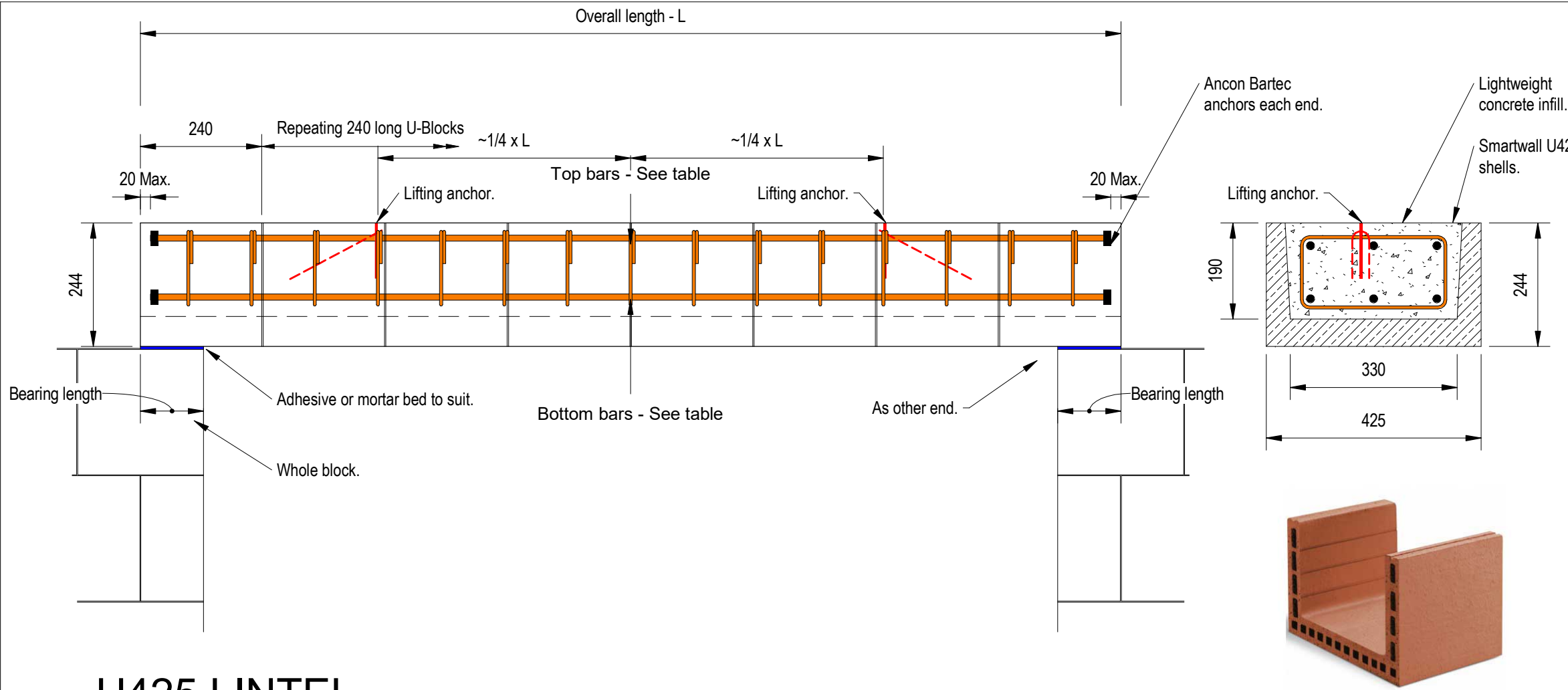
1 U365 LINTEL
 1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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PROJECT SMARTWALL BONDING & LINTEL DATA		
TITLE LINTEL TYPE U365		
CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 104		REV



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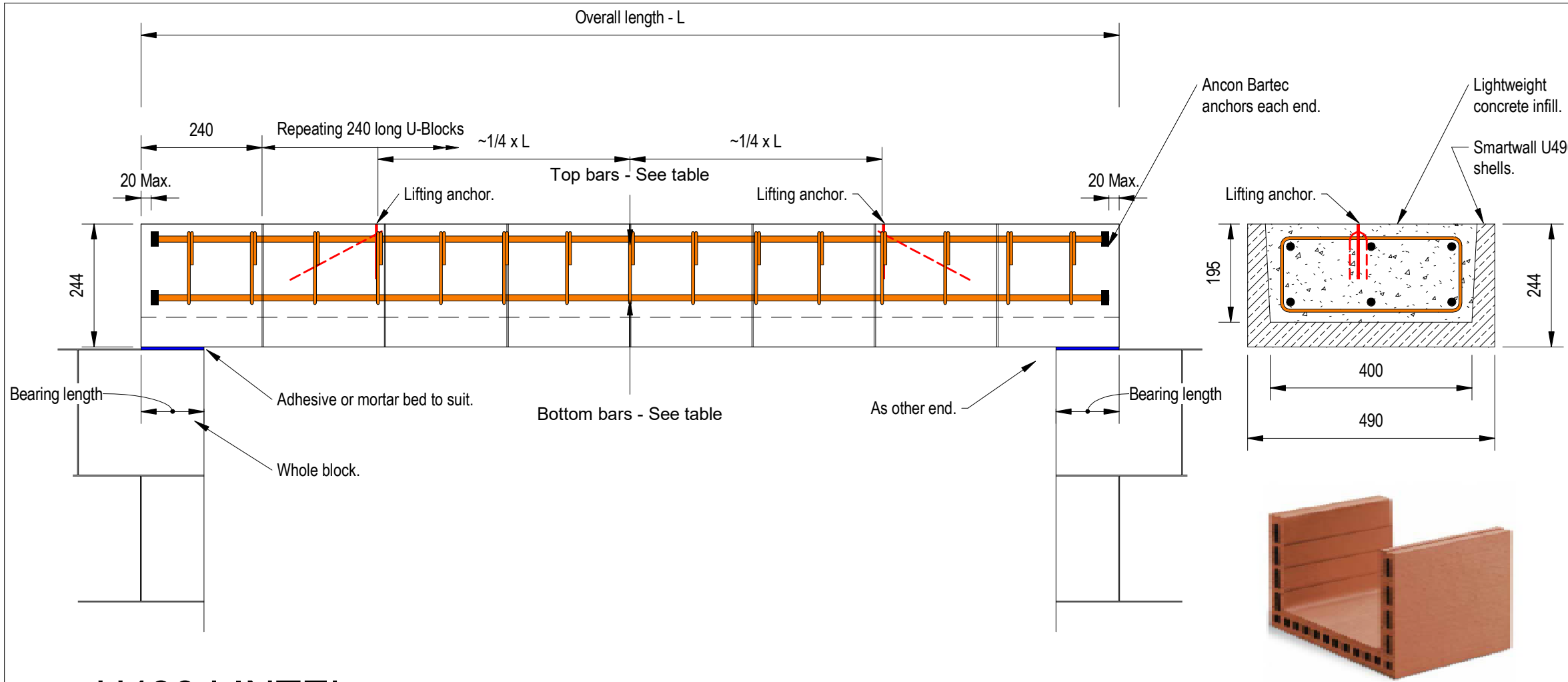
1 U425 LINTEL
 1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	125	B6	51	975	280	140
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 Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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

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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
JUWÖ-Evolved Smartwall™ Thermoplan Clayblock Building System		  www.juwo-smartwall.co.uk
Trehannick Saw Mills, St Teath, Bodmin, PL30 3JW		
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PROJECT SMARTWALL BONDING & LINTEL DATA		
TITLE LINTEL TYPE U425		
CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 105		REV



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1 U490 LINTEL
 1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	125	B6	51	1075	350	145
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 Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
 Thermoplan Clayblock Building System



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www.juwo-smartwall.co.uk

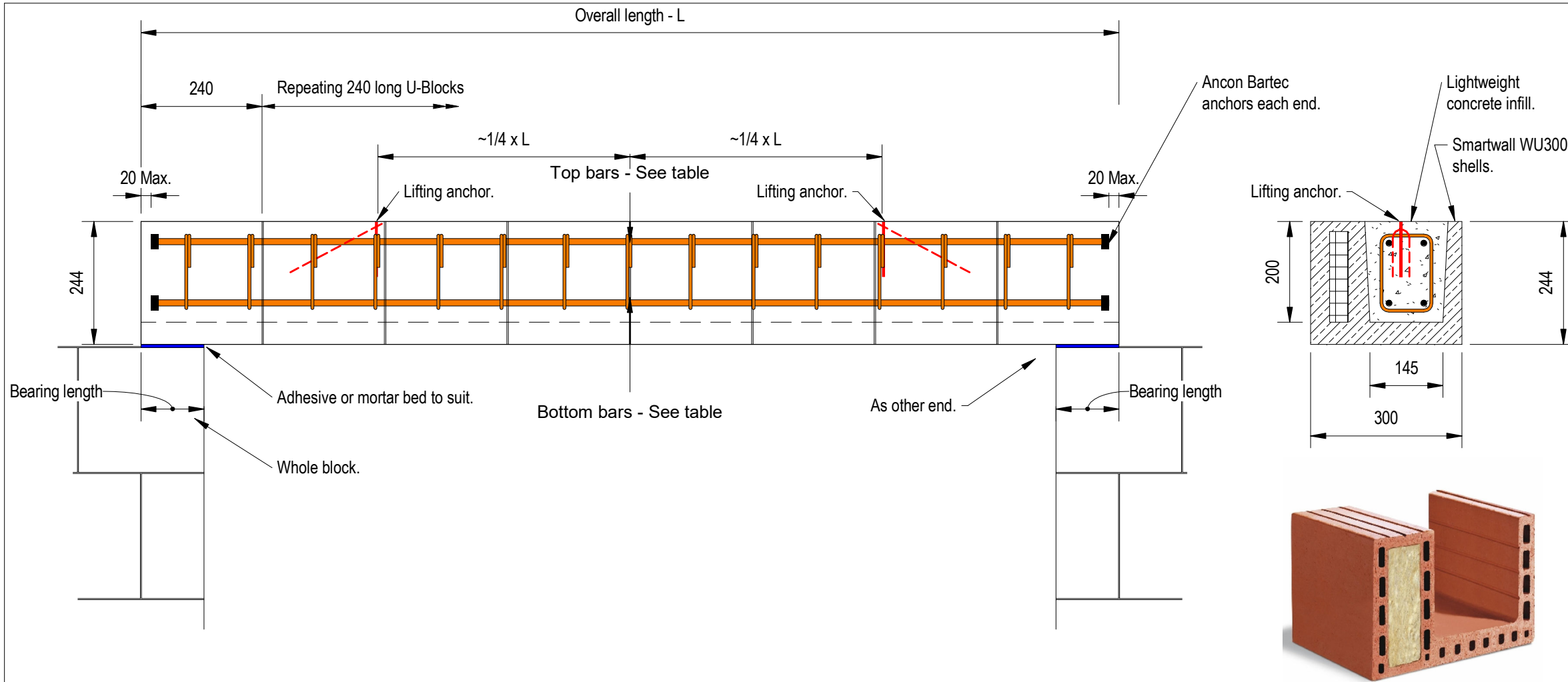


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PROJECT
SMARTWALL BONDING & LINTEL DATA

TITLE
LINTEL TYPE U490

CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 106		REV



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WU300 LINTEL

1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	125	B6	51	625	95	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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
Thermoplan Clayblock Building System

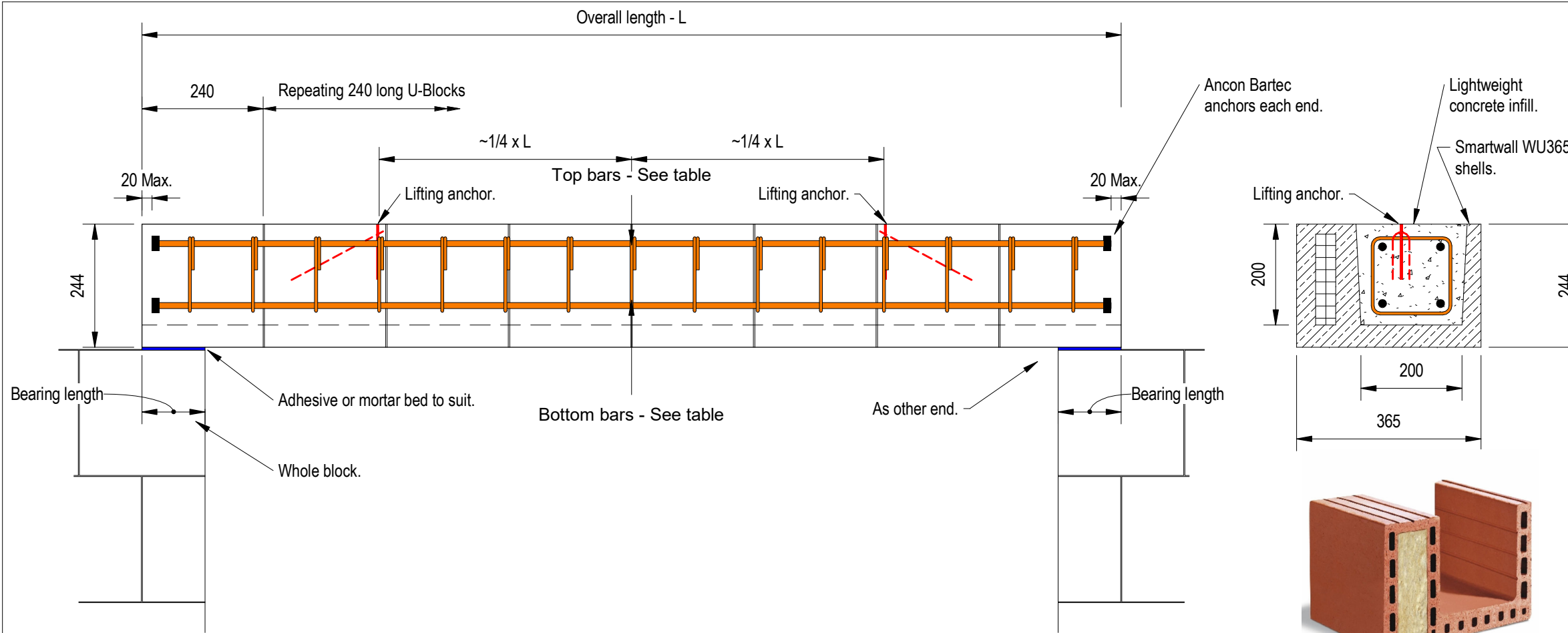
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www.juwo-smartwall.co.uk

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PROJECT
SMARTWALL BONDING & LINTEL DATA

TITLE
LINTEL TYPE WU300

CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 107	REV	



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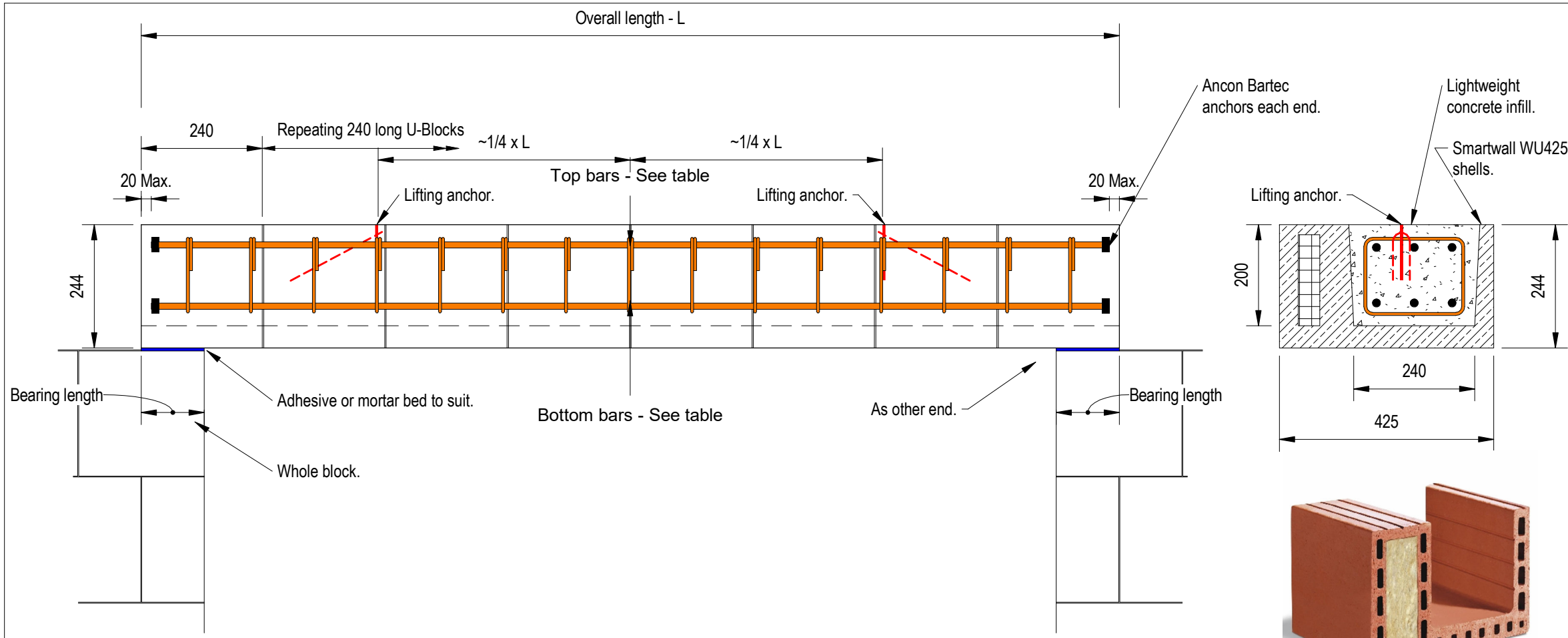
1 WU365 LINTEL
1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	125	B6	51	725	150	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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
WU365-LU4	970	7	2	925	2	925	109	125
WU365-LU5	1210	9	2	1150	2	1150	135	125
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

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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
JUWÖ-Evolved Smartwall™ Thermoplan Clayblock Building System		  www.juwo-smartwall.co.uk
Trehannick Saw Mills, St Teath, Bodmin, PL30 3JW		
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PROJECT SMARTWALL BONDING & LINTEL DATA		
TITLE LINTEL TYPE WU365		
CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 108		REV



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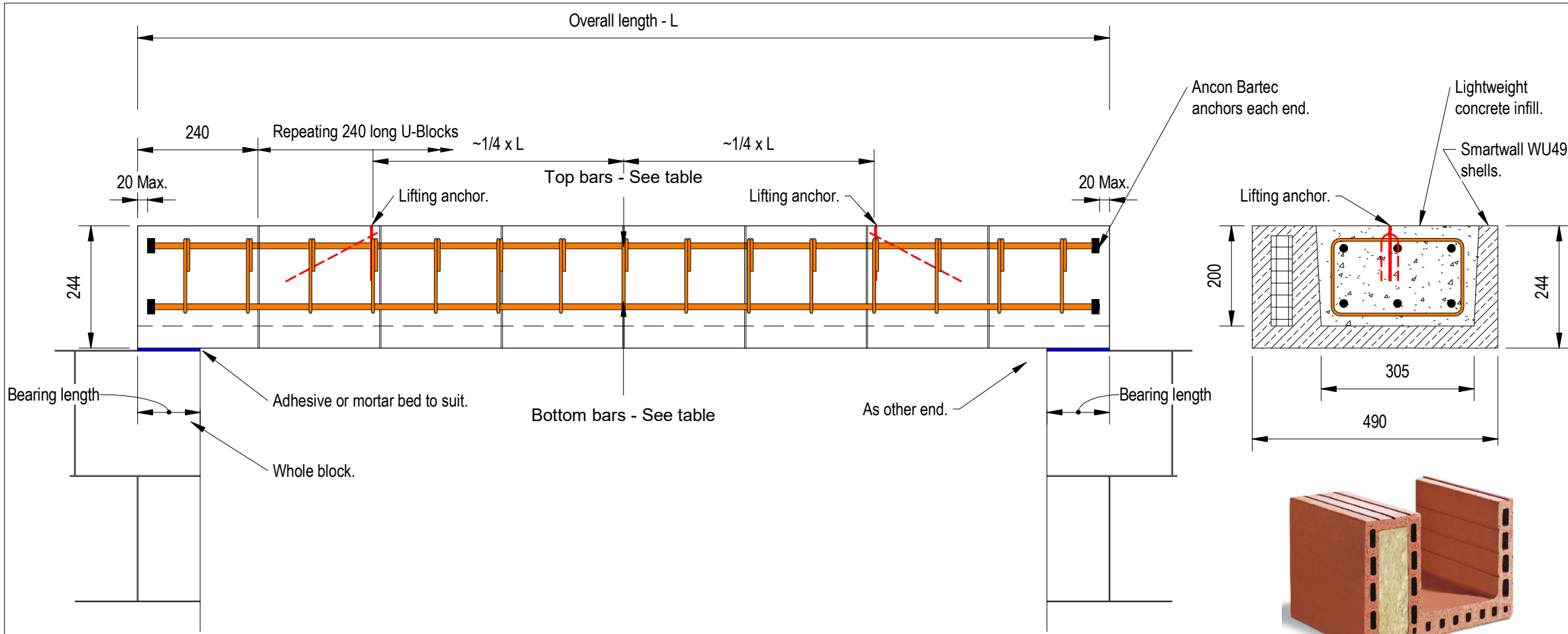
1 WU425 LINTEL
 1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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Trehannick Saw Mills, St Teath, Bodmin, PL30 3JW		
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PROJECT SMARTWALL BONDING & LINTEL DATA		
TITLE LINTEL TYPE WU425		
CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 109		REV



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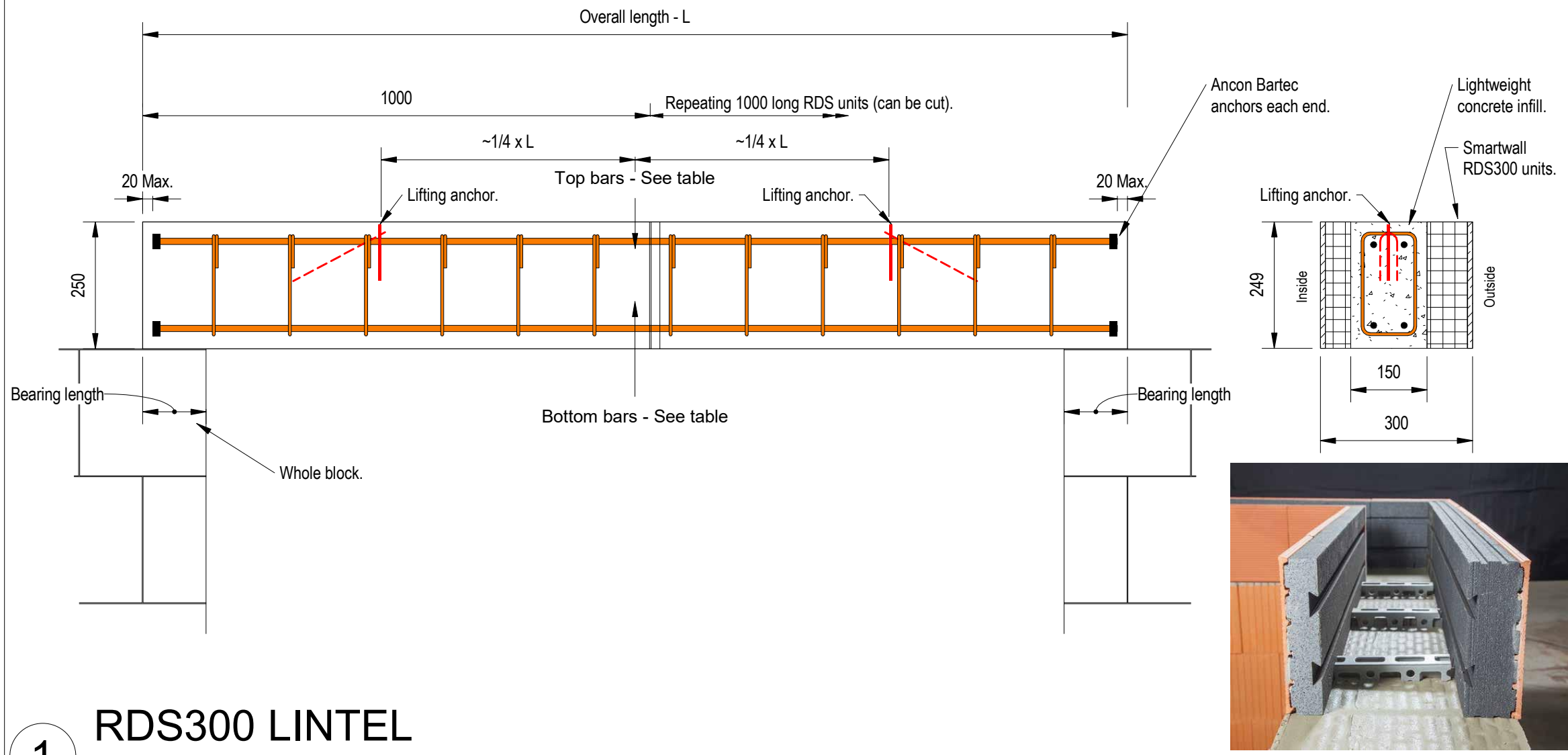
1 WU490 LINTEL
 1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Type BTP12HA					

TYPE	Length L	Links Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
WU490-LU4	970	7	3	925	3	925	146	125
WU490-LU5	1210	9	3	1150	3	1150	182	125
WU490-LU6	1455	11	3	1400	3	1400	219	125
WU490-LU7	1695	11	3	1650	3	1650	256	250
WU490-LU8	1940	13	3	1900	3	1900	293	250
WU490-LU9	2180	15	3	2125	3	2125	329	250
WU490-LU10	2425	17	3	2375	3	2375	366	250

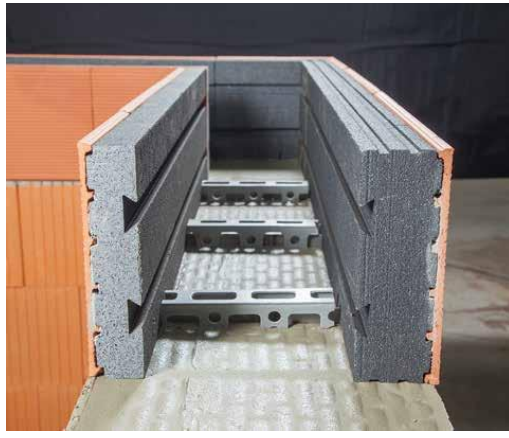
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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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Trehannick Saw Mills, St Teath, Bodmin, PL30 3JW		
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PROJECT SMARTWALL BONDING & LINTEL DATA		
TITLE LINTEL TYPE WU490		
CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 110		REV



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1 RDS300 LINTEL
1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
Thermoplan Clayblock Building System

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PROJECT
SMARTWALL BONDING & LINTEL DATA

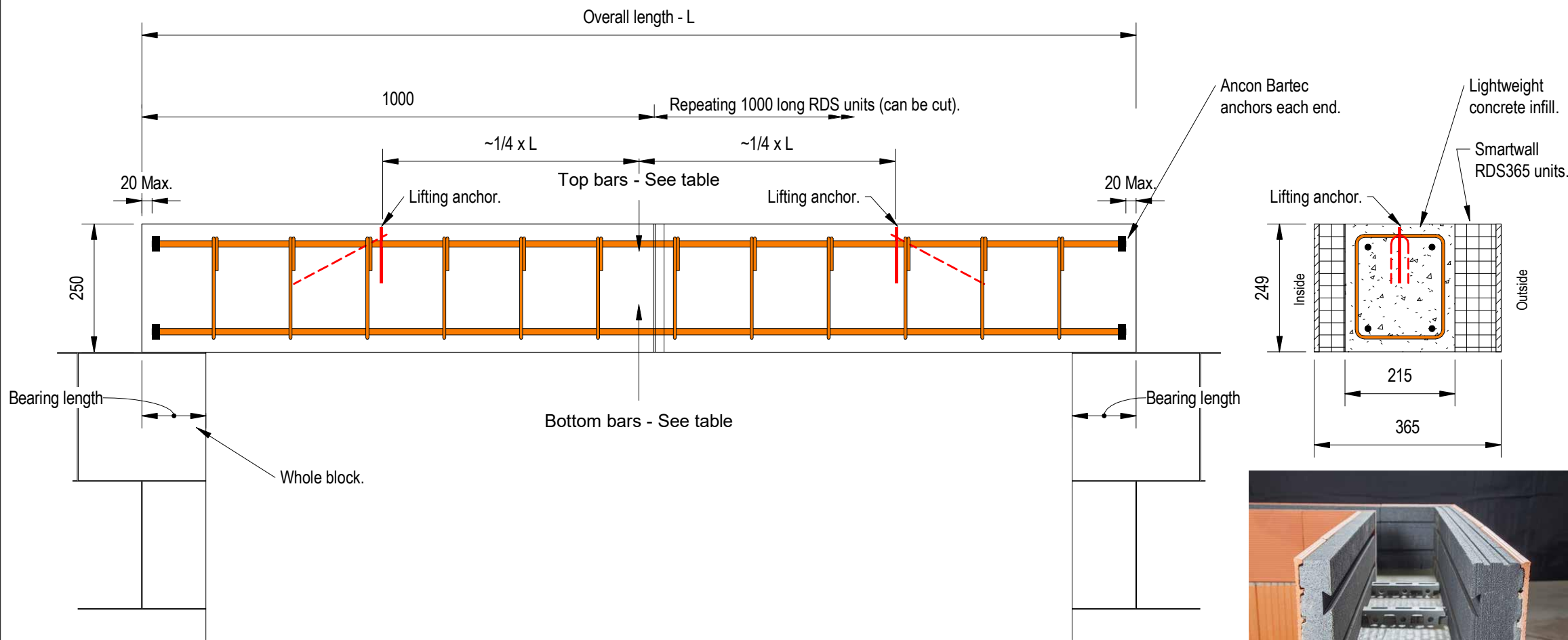
TITLE
LINTEL TYPE RDS300

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 111	REV
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1 RDS365 LINTEL

1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	150	B6	51	850	165	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	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
		Number	Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
Thermoplan Clayblock Building System

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PROJECT
SMARTWALL BONDING & LINTEL DATA

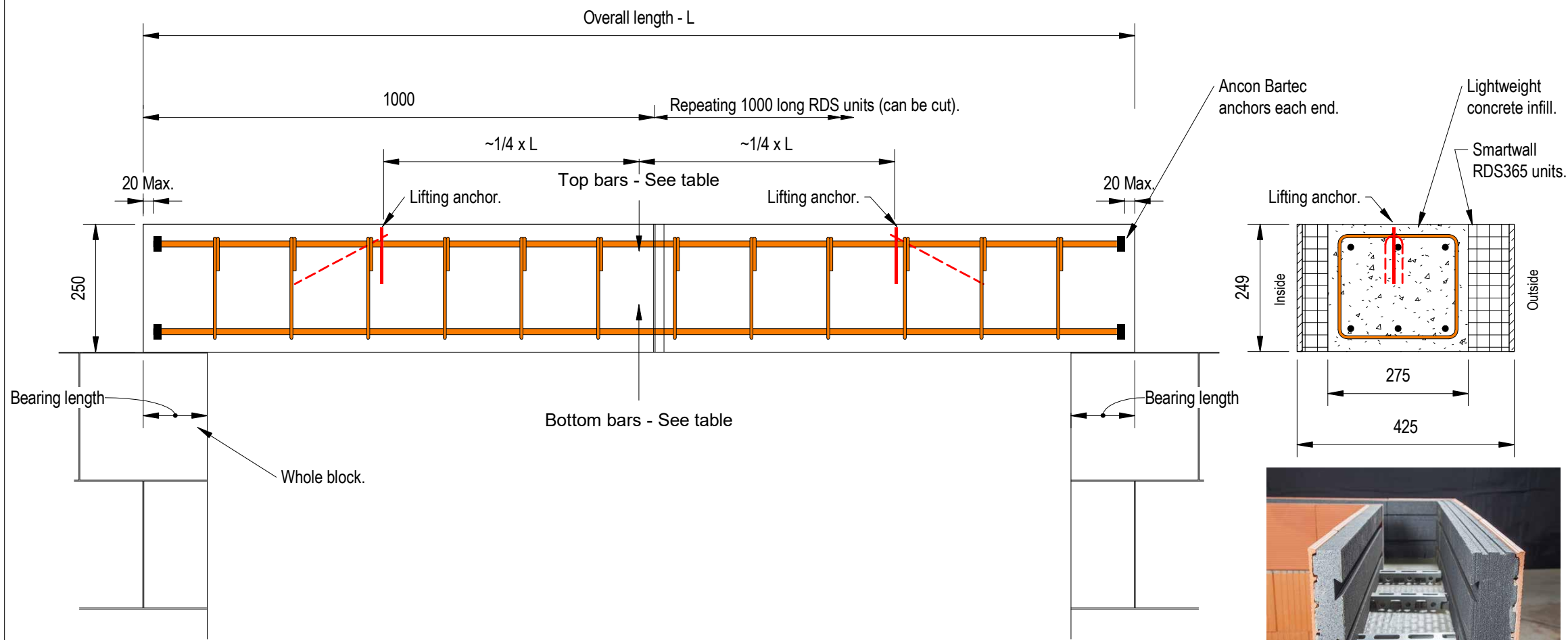
TITLE
LINTEL TYPE RDS365

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 112	REV
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RDS425 LINTEL

1
1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	150	B6	51	975	225	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	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
		Number	Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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PROJECT
SMARTWALL BONDING & LINTEL DATA

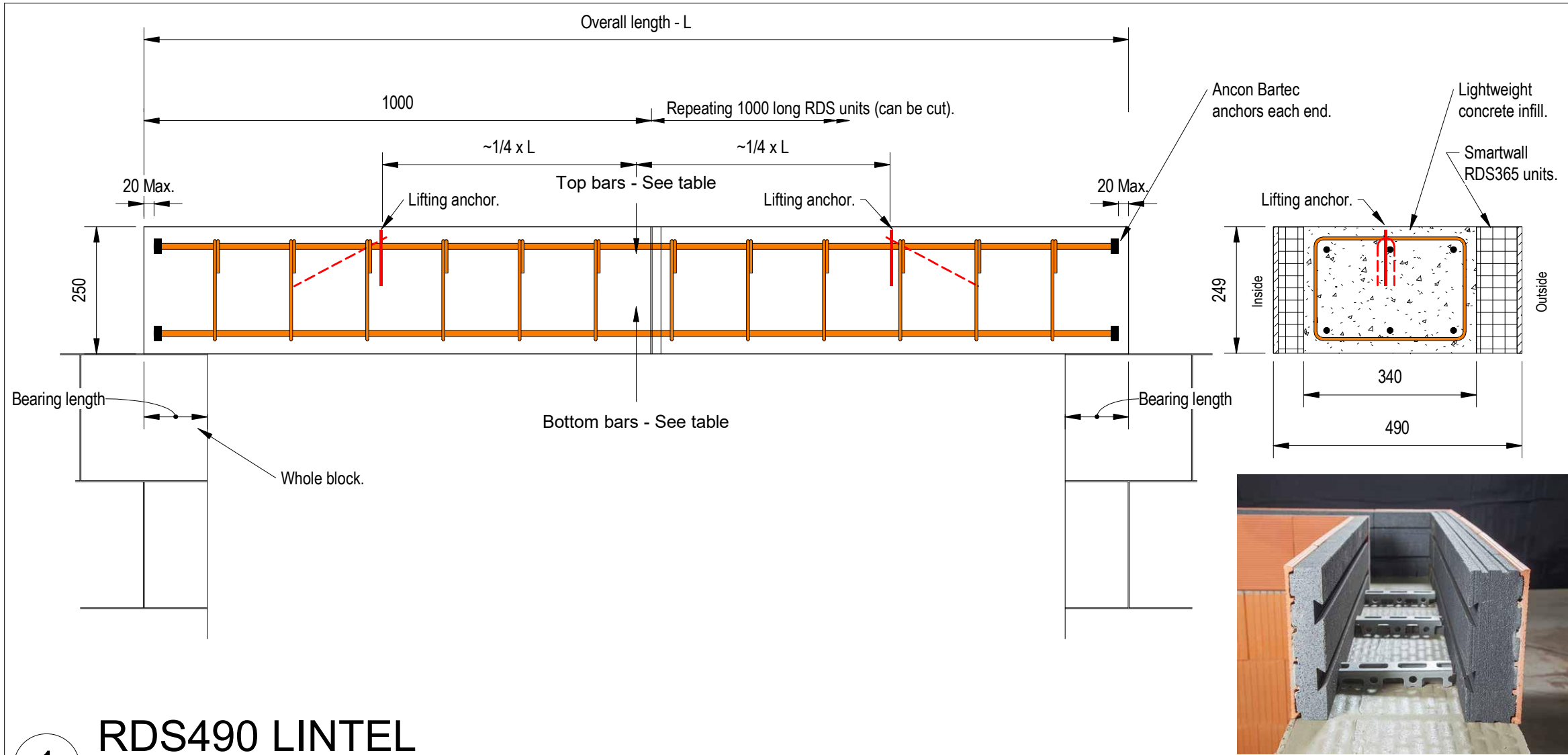
TITLE
LINTEL TYPE RDS425

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 113	REV
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1 RDS490 LINTEL
1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
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 Type BTP12HA					

TYPE	Length L	Links	Top bars		Bottom bars		Lintel Weight (kg)	Max. UDL ⁴ (kN/m)	Min. bearing
		Number	Number	Length	Number	Length			
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

SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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PROJECT
SMARTWALL BONDING & LINTEL DATA

TITLE
LINTEL TYPE RDS490

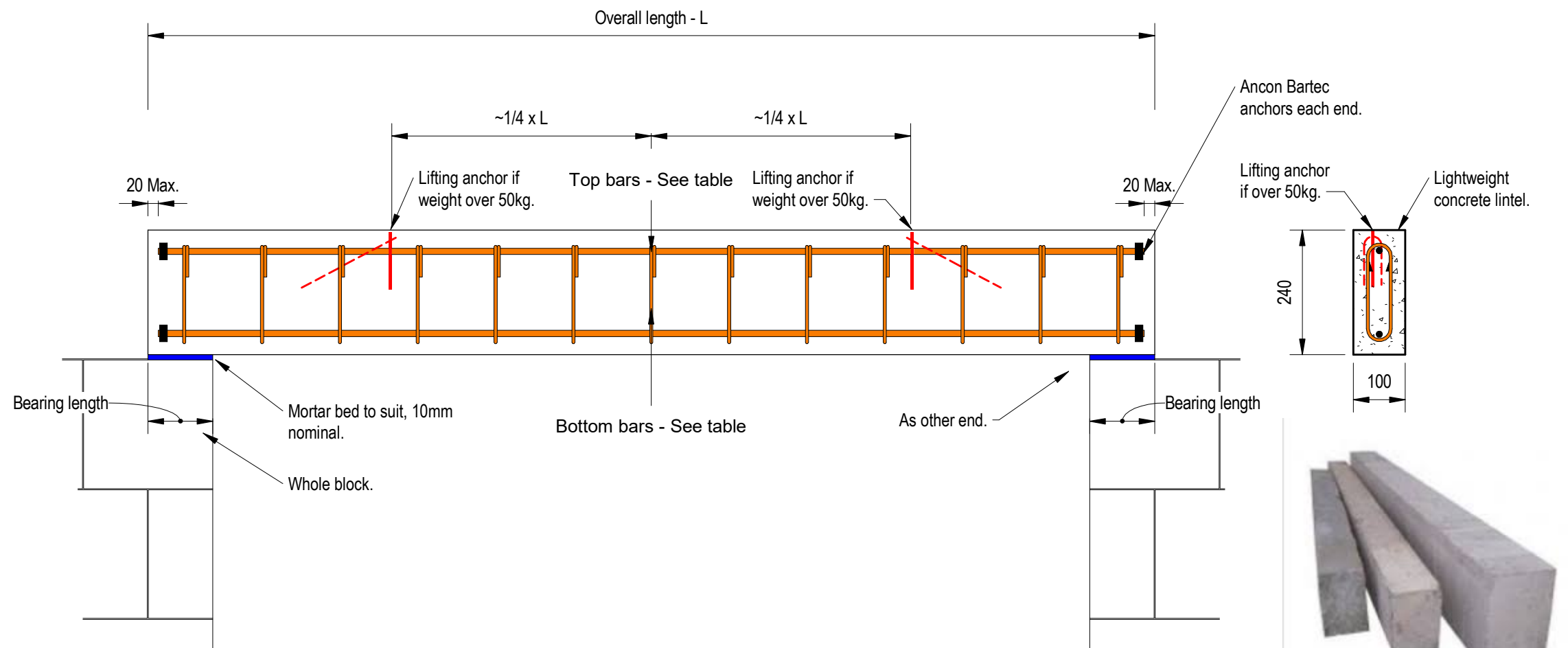
CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 114	REV
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SW100x240 LINTEL

1

1 : 10

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	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	150	B6	33	600	190	50
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 Number	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
			Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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PROJECT
SMARTWALL BONDING & LINTEL DATA

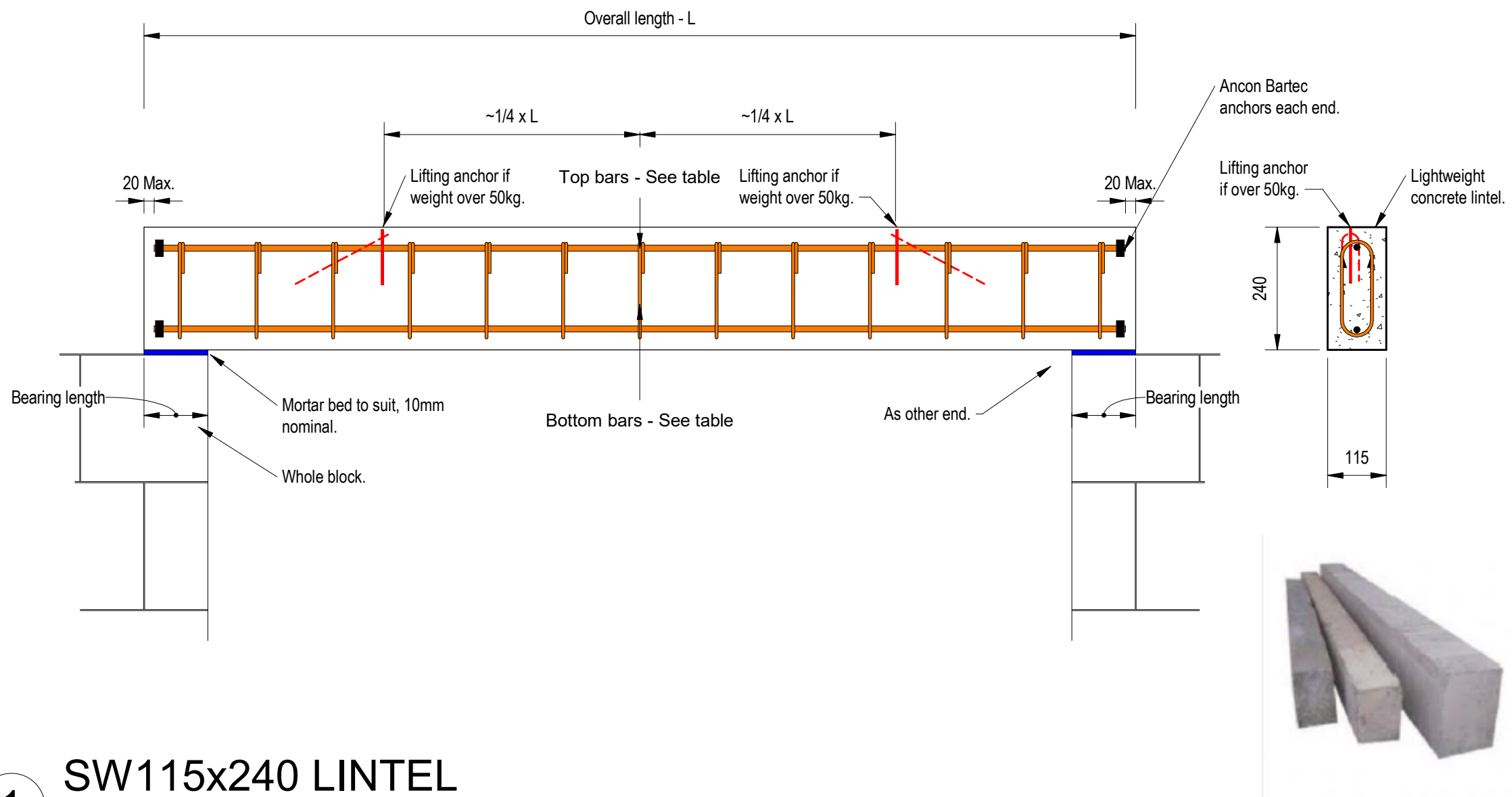
TITLE
LINTEL TYPE SW100x240

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 115	REV
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1 SW115x240 LINTEL
1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	150	B6	33	625	190	65
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	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
		Number	Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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PROJECT
SMARTWALL BONDING & LINTEL DATA

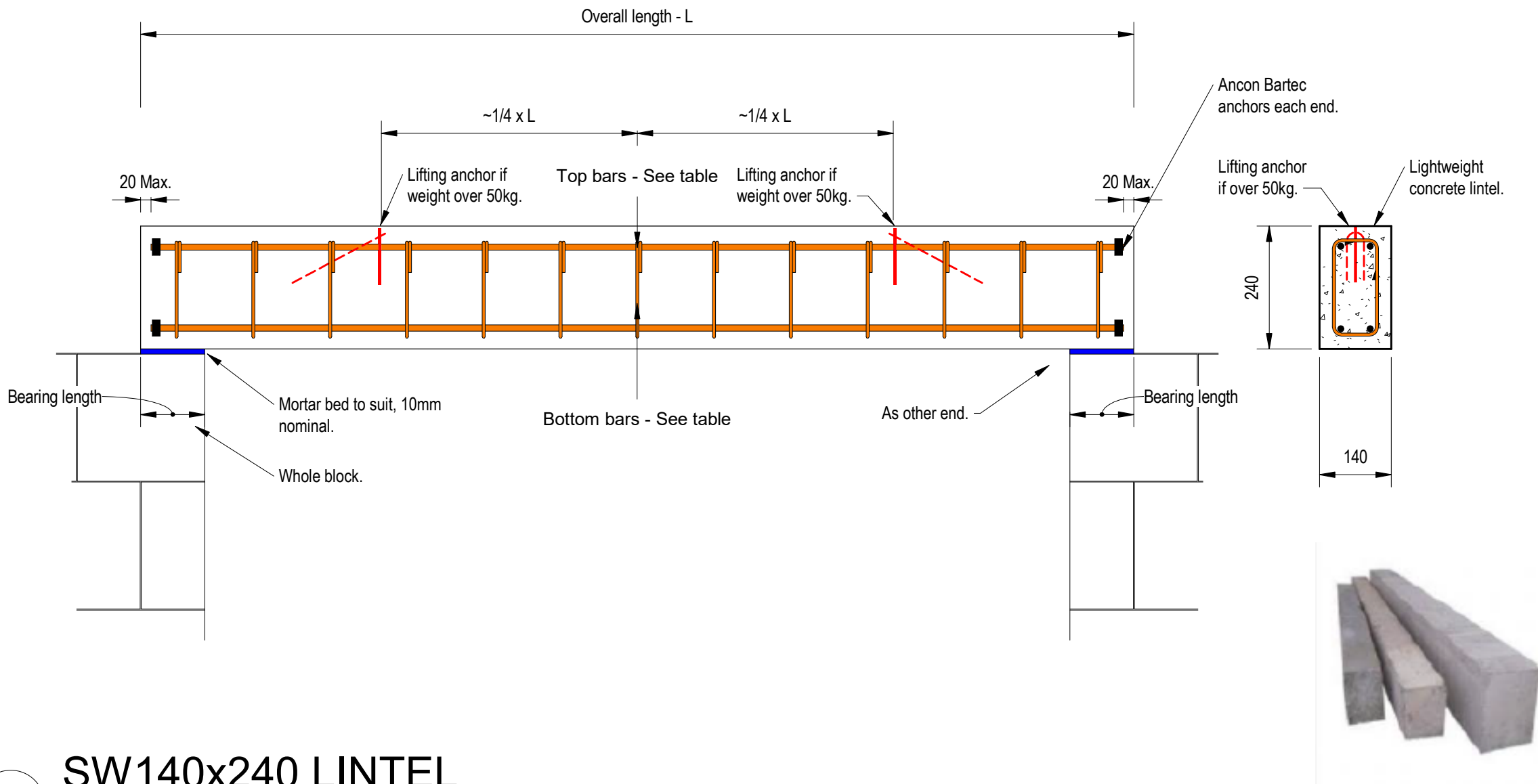
TITLE
LINTEL TYPE SW115x240

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 116	REV
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1 SW140x240 LINTEL
 1 : 10

	Spacing	Type & Size	Shape Code	Bar Length	A	B
Links	150	B6	51	700	90	190
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	Top bars		Bottom bars		Lintel Weight (kg)	Min. bearing
		Number	Number	Length	Number	Length		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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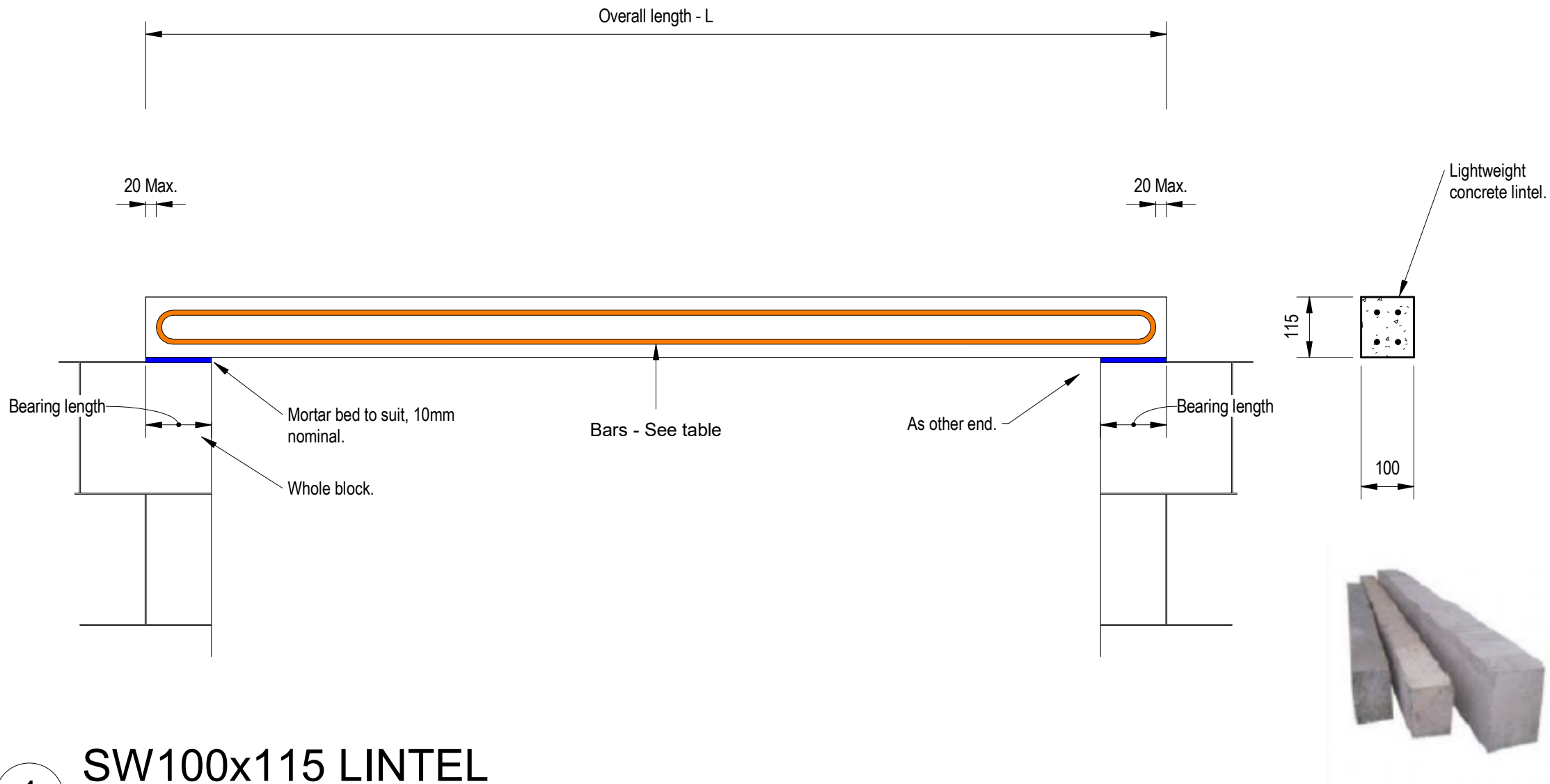


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PROJECT
SMARTWALL BONDING & LINTEL DATA

TITLE
LINTEL TYPE SW140x240

CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 26/1/22
SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
DRAWING NUMBER 117		REV



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1

SW100x115 LINTEL

1 : 10

TYPE	Length L	Bars						Lintel Weight (kg)	Min. bearing
		Type & Size	Shape Code	Bar Length	A	B	Number		
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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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PROJECT
SMARTWALL BONDING & LINTEL DATA

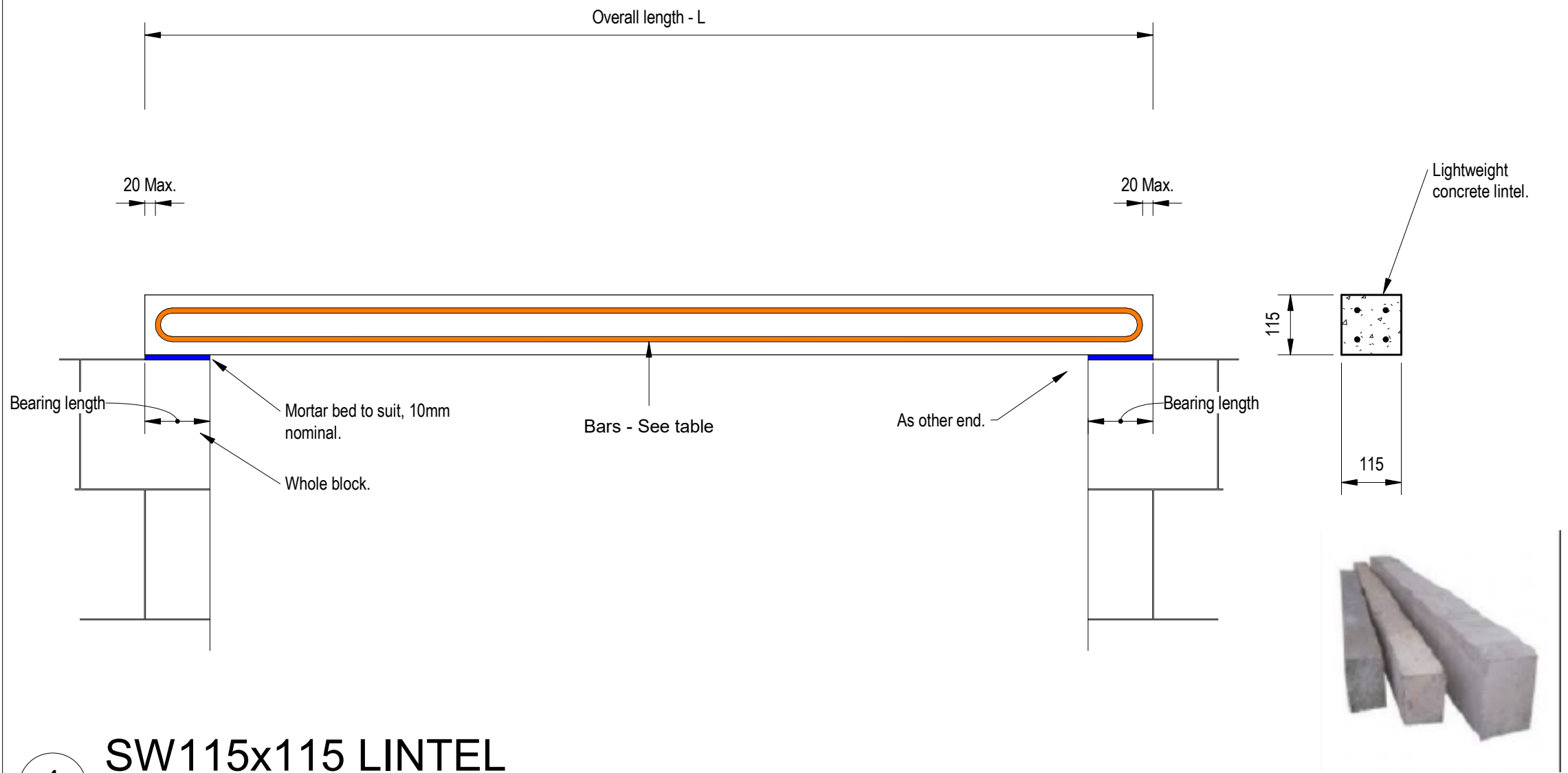
TITLE
LINTEL TYPE SW100x115

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 118	REV
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SW115x115 LINTEL

1

1 : 10

TYPE	Length L	Bars						Lintel Weight (kg)	Min. bearing
		Type & Size	Shape Code	Bar Length	A	B	Number		
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

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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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PROJECT
SMARTWALL BONDING & LINTEL DATA

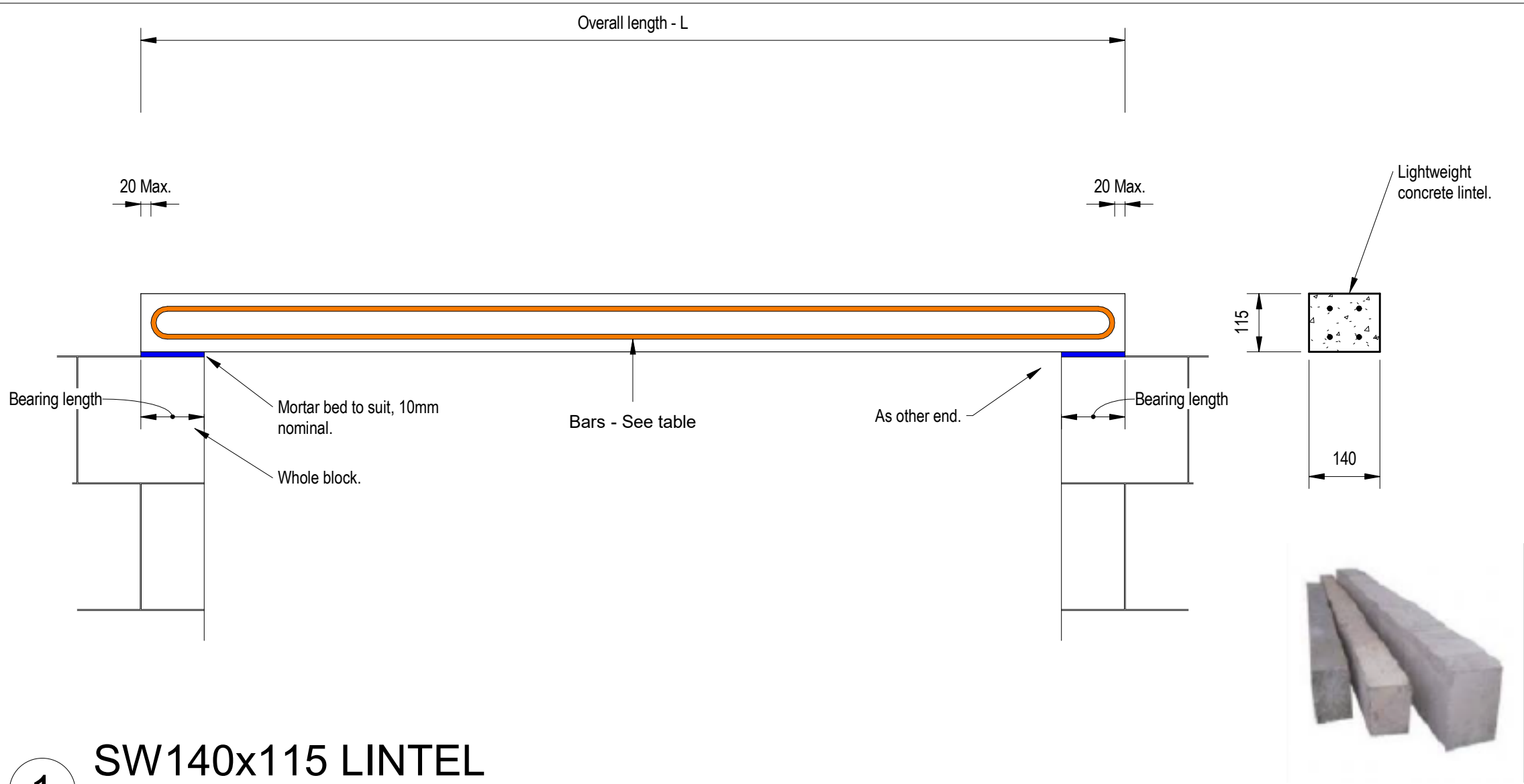
TITLE
LINTEL TYPE SW115x115

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 119	REV
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SW140x115 LINTEL

1

1 : 10

TYPE	Length L	Bars						Lintel Weight (kg)	Min. bearing
		Type & Size	Shape Code	Bar Length	A	B	Number		
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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 - Concrete shall be adequately vibrated to consolidate it.
 - Reinforcement shall be Grade B500B in accordance with BS 4449.
 - 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, 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 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.

SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
Thermoplan Clayblock Building System




Trehannick Saw Mills, St Teath, Bodmin, PL30 3JW
www.juwo-smartwall.co.uk

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PROJECT
SMARTWALL BONDING & LINTEL DATA

TITLE
LINTEL TYPE SW140x115

CLIENT

DRAWN BY RAB	CHECKED BY	DATE 26/1/22
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SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 120	REV
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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 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 eccentricity 1/6 of the bearing length.

It is the users' responsibility to ensure that this data is used only by persons competent 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	15.3	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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SUITABILITY SO	LOD N/C	MODEL VERSION CODE PO1
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JUWÖ-Evolved Smartwall™
Thermoplan Clayblock Building System



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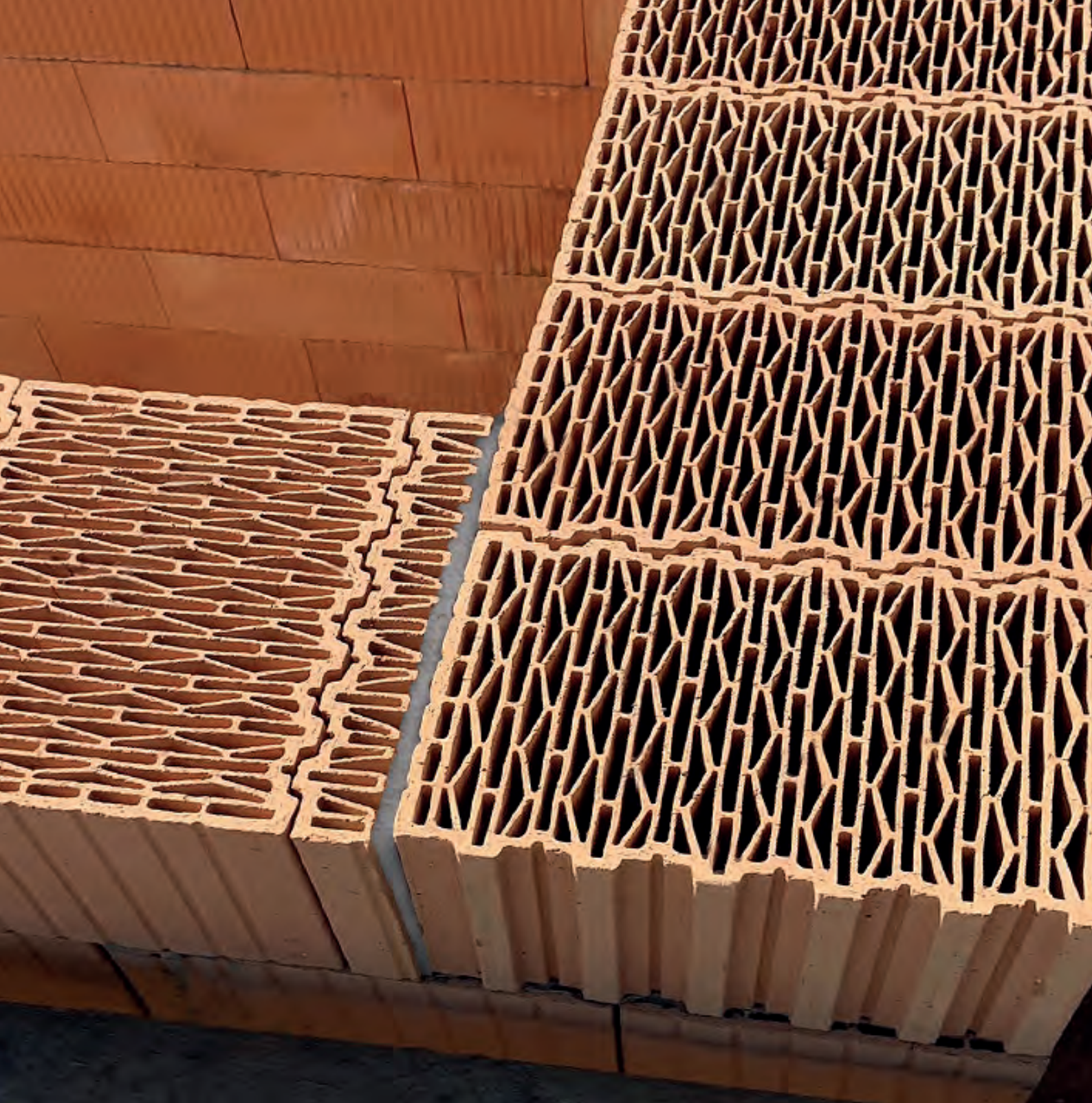
PROJECT
SMARTWALL BONDING & LINTEL DATA

TITLE
SMARTWALL LINTEL LOAD TABLES

CLIENT		
DRAWN BY RAB	CHECKED BY	DATE 01/28/22

SCALE NTS	A3	PROJECT REF. EDH-ZZ-00-DR-S-000
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DRAWING NUMBER 130	REV
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