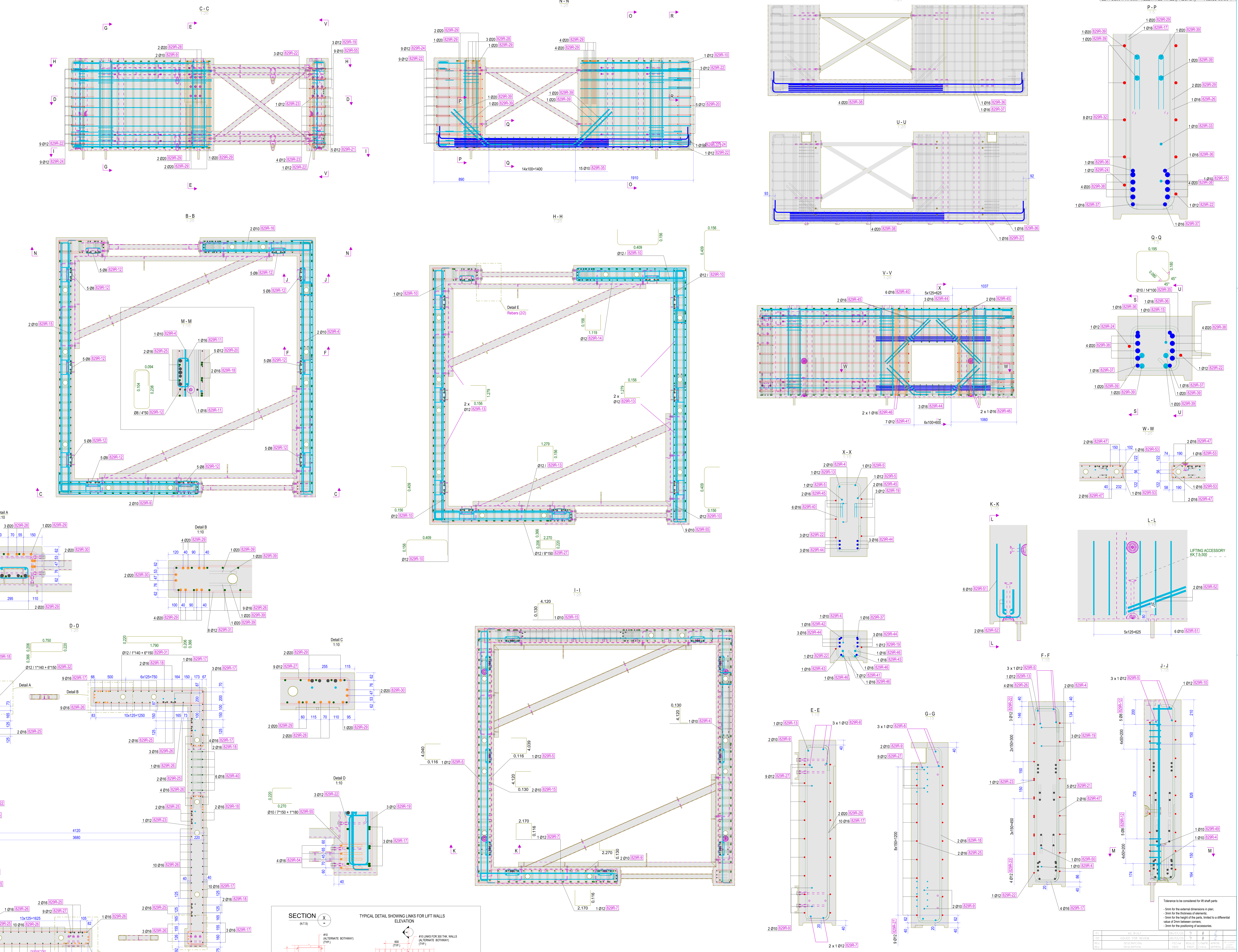
TCM Entity Code	TCM Entity Description	VV UNIT NUMBER
2211-BL001I-WA030P	ELEVATED WALL (PRECAST)	829LS-30.**30**

REBAR LIST

MARK	QTT	Diam.	Length	Type	Shape dimensions
829R-4	3 un	Ø10	4.339 m	long_sumo/ppm	0.130 / 4.120
829R-5	8 un	Ø12	4.222 m	ref_extremidade	0.116 / 4.040
829R-6	3 un	Ø12	1.892 m	ref_extremidade	0.116 / 1.710
829R-7	2 un	Ø12	2.352 m	ref_extremidade	0.116 / 2.170
829R-8	3 un	Ø12	2.372 m	ref_extremidade	0.116 / 2.190
829R-9	4 un	Ø10	2.489 m	long_sumo/ppm	2.270 / 0.130
829R-10	7 un	Ø12	0.671 m	ref_extremidade	0.156 / 0.409
829R-11	20 un	Ø16	1.420 m	ref_sumo-ppm	1.420
829R-12	100 un	Ø8	0.866 m	ref_sumo-ppm	0.238 / 0.094 / 0.104
829R-13	5 un	Ø12	1.541 m	ref_extremidade	0.156 / 1.279
829R-14	1 un	Ø12	1.382 m	ref_extremidade	0.156 / 1.119
829R-15	5 un	Ø10	4.339 m	long_sumo/ppm	0.130 / 4.120
829R-16	2 un	Ø10	2.009 m	long_sumo/ppm	1.790 / 0.130
829R-17	69 un	Ø16	1.730 m	malha_transv	1.420 / 0.188
829R-18	20 un	Ø16	1.650 m	malha_transv	0.188 / 1.420 / 0.108
829R-19	4 un	Ø12	4.642 m	malha_long	0.366 / 4.120 / 0.206
829R-20	5 un	Ø12	2.532 m	malha_long	0.206 / 0.366 / 0.920 / 0.220
829R-21	5 un	Ø12	2.987 m	malha_long	0.220 / 0.216 / 2.420 / 0.206
829R-22	14 un	Ø12	4.502 m	malha_long	0.216 / 4.120
829R-23	5 un	Ø12	2.802 m	malha_long	0.216 / 2.420
829R-24	10 un	Ø12	4.802 m	malha_long	0.366 / 4.120
829R-25	20 un	Ø16	1.622 m	malha_transv	1.285 / 0.208 / 0.195
829R-26	69 un	Ø16	2.093 m	malha_transv	1.420 / 0.208 / 0.195
829R-27	9 un	Ø12	5.232 m	malha_long	0.220 / 2.270 / 0.366 / 0.206
829R-28	5 un	Ø20	1.608 m	ARMADURA	0.152 / 1.420 / 0.112
829R-29	17 un	Ø20	1.648 m	ARMADURA	1.420 / 0.152
829R-30	6 un	Ø20	1.611 m	ARMADURA	0.180 / 1.360
829R-31	8 un	Ø12	4.272 m	malha_long	0.220 / 1.790 / 0.366 / 0.206
829R-32	8 un	Ø12	2.192 m	malha_long	0.206 / 0.366 / 0.750 / 0.220
829R-33	1 un	Ø10	0.929 m	long_sumo/ppm	0.710 / 0.130
829R-34	1 un	Ø10	1.861 m	long_sumo/ppm	0.130 / 1.642
829R-35	15 un	Ø10	0.846 m	viga_cinta	0.195 / 0.080 / 0.180 / 45° / 45°
829R-36	2 un	Ø16	4.380 m		0.208 / 4.031
829R-37	3 un	Ø16	4.410 m		0.208 / 4.060
829R-38	8 un	Ø20	2.500 m	ARMADURA	2.500
829R-39	8 un	Ø20	1.172 m		0.809 / 45° / 0.374
829R-40	6 un	Ø16	1.740 m	malha_transv	0.188 / 0.560 / 0.208 / 0.195
829R-41	7 un	Ø12	0.865 m	viga_cinta	45° / 45° / 0.195 / 0.180 / 0.096
829R-42	1 un	Ø16	4.400 m		4.050 / 0.208
829R-43	2 un	Ø16	4.440 m		4.090 / 0.208
829R-44	12 un	Ø16	1.860 m		1.860
829R-45	8 un	Ø16	1.000 m		1.000
829R-46	8 un	Ø16	0.848 m		0.613 / 45° / 0.243
829R-47	8 un	Ø16	1.710 m		1.400 / 0.188
829R-49	1 un	Ø10	1.139 m	long_sumo/ppm	0.130 / 0.920
829R-50	1 un	Ø10	2.639 m	long_sumo/ppm	0.130 / 2.420
829R-51	24 un	Ø10	1.351 m	REF_ELEVAÇÃO	0.600 / 0.196
829R-52	8 un	Ø16	1.030 m	REF_ELEVAÇÃO	0.500 / 0.096
829R-53	4 un	Ø16	1.610 m		0.168 / 1.340
829R-54	4 un	Ø16	1.633 m	ARMADURA	0.176 / 1.380
829R-55	9 un	Ø10	0.719 m	ARMADURA	0.270 / 0.220



Tolerance to be considered for lift shaft parts:

- 5mm for the external dimensions in plan;
- 3mm for the thickness of elements;
- 5mm for the height of the parts, limited to a differential value of 2mm between corners;
- 3mm for the positioning of accessories.

REBARS			1339 kg
Ø	Material	Length (ml)	Weight (kg)
8	A500NR_SD	86.65	34.2
10	A500NR_SD	106.83	65.9
12	A500NR_SD	341.13	302.9
16	A500NR_SD	475.33	751.0
20	A500NR_SD	75.10	185.5

According to NP EN 1992-1-1

Rebar diameter Ø [mm]	6	8	10	12	16	20	25	32
Minimum mandrel diameter for bends and hooks (B) [mm]	24	32	40	48	64	140	175	224

Hooks: A≥5Ø (≥50 mm)

Bends: A≥10Ø (≥70 mm)

EMBEDDED PARTS

QTT	PRODUCT	PRODUCT DESCRIPTION
64 Un	Female Socket Bars M16 415mm	PHILIPP 79BW160575
4 Un	LIFTING ACCESSORY	KK 7.5-120
4 Un	LIFTING ACCESSORY	KK 7.5-300
10 Un	PPM30P modified L=1455mm	
2 Un	PQ006	
10 Un	SUMO30P	SUMO30P
4 Un	TEMPORARY BRACING	
2 Un	TEMPORARY TRUSS	
12 Un	SLEEVE Ø80 CHS80X1 L =1480 S275JR	

CAST-UNIT PROPERTIES 829LS-30

MATERIAL	C40/50 XC2/XF1/XD1/XS1 Cl0,20 D_{inf} 16 D_{sup} 22 SF2
VOLUMETRY	4.200 x 4.200 x 1.500 m
CONCRETE VOLUME	5.48 m^3
SETTING TIME	Classe 3
ANCHORAGE LENGTH	See CR
MASS	15361 kg
CONCRETE COVER	40 mm
LAP LENGTH	According EC2, point 8.7.
EXECUTION CLASS	Class 2
CONCRETE (NP EN 206 / E464)	

Rev.	Description	Date
1	AS BUILT	08-07-2025

QTT: 1	Drawing nº: 829LS-30	Sheet nº: 2	Typology: CAST-UNIT
Part name: LIFT MODULE	Drawing name: Rebars	Project nº: P241426	
Project: LIFT SHAFT		Client: TECNIMONT	
Local: Sines			
Prepared: HUGO SOUSA, Date 26.03.2025	Checked: ENG. CEDRICO, Date 27.03.2025	Approved: ENG. CARLOS COSTA, Date 28.03.2025	Fabrication plan: 829
Scale: 1:5, 1:10, 1:20	Sheet: A0 (1189x841)		

VERDASCA GROUP

DESCRIPCIÓN / DESCRIPTION	FECHA / DATE	REALIZ. / PREP.	COMPR. / CHCK.	APROB. / APPROV.	VB CLIENTE / CLIENT APPROVAL
AS BUILT	08/07/25				
ISSUED FOR REVIEW	28/03/25				

MR No: 4274-AA-WR-00000006

MR Description: Extrusion Precast Lift Shaft

Item Tag No: NA

Vendedor Código / Vendor Doc. Code:

Vendedor Nombre / Vendor Name: VERDASCA GROUP

ALL DIMENSIONS ARE IN MM

ESCALA / SCALE: VAR.

TAMAÑO / SIZE: DIN-A0

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Tekla Structures