ELECTRONORTE Fecha: 01/05/23

1. LISTADO DE CÓMPUTO DE VIGAS

Materiales: Hormigón: H-30 Acero: ADN 420

ACEIO. ADIN 420		A	A	A ' I	A 1	T-1-1	αo	αn	740	Ø40	G40	200	205	\/ h = ===
	Tipo	A.neg. (kg)	A.pos. (kg)	A.piel (kg)	A.est. (kg)	Total (kg)	Ø6 (kg)	Ø8 (kg)	Ø10 (kg)	Ø12 (kg)	Ø16 (kg)	Ø20 (kg)	Ø25 (kg)	V.horm. (m³)
NIVEL -0.15		(0)	, 0,		, 0,		, 0,	, 0,	. 0,	(0)	, 0,	, 0,	. 0,	, ,
*Pórtico 1														
V-101(C01-C02)	Desc.	29.6	24.8	2.5	6.8	63.7	9.3	16.5		33.0	4.9			0.782
V-102(C02-C03)	Desc.		4.5	2.5	6.8	13.8	9.3	4.5						0.740
V-103(C03-C04)	Desc.	4.9	4.5	2.5	6.8	18.7	9.3	4.5			4.9			0.740
V-104(C04-C05)	Desc.	13.1	12.7	2.5	6.8	35.1	9.3	20.9			4.9			0.740
V-105(C05-C06)	Desc.	4.9	4.5	2.5	6.8	18.7	9.3	4.5			4.9			0.740
V-106(C06-C07)	Desc.	13.1	12.7	2.5	6.8	35.1	9.3	20.9			4.9			0.740
V-107(C07-C08)	Desc.	4.9	4.5	2.5	6.8	18.7	9.3	4.5			4.9			0.740
V-108(C08-C09)	Desc.	17.6	12.7	2.5	6.8	39.6	9.3	20.9			9.4			0.740
V-109(C09-C10)	Desc.	8.3	8.0	2.1	5.5	23.9	7.6	14.8	1.5					0.611
V-110(C10-C11)	Desc.		1.1	2.1	5.5	8.7	7.6	1.1						0.608
V-111(C11-C12)	Desc.	63.1	45.4	4.2	12.3	125.0	16.5		2.2		90.8	15.5		1.365
Total Pórtico 1		159.5	135.4	28.4	77.7	401.0	106.1	113.1	3.7	33.0	129.6	15.5		8.546
*Pórtico 2														
V-112(C13-C10)	Desc.	20.8	20.8		9.6	51.2	9.6				41.6			0.480
*Pórtico 3						•								
V-113(C10-C16)	Desc.	20.8	20.8		9.6	51.2	9.6				41.6			0.479
*Pórtico 4						•								
V-114(C18-C02)	Desc.	26.6	26.6		12.2	65.4	12.2			53.2				0.615
*Pórtico 5	2000.		20.0							00.2				0.0.0
V-115(C13-C14)	Desc.				3.6	3.6	3.6							0.161
V-116(C14-C15)	Desc.	6.7	6.8		5.0	18.5	5.0	13.5						0.200
V-117(C15-C16)	Desc.	0	0.0		3.3	3.3	3.3							0.138
V-118(C16-C17)	Desc.	47.8	45.6		16.0	109.4	16.0	3.0			90.4			0.810
Total Pórtico 5	2000.	54.5	52.4		27.9	134.8	27.9	16.5			90.4			1.309
*Pórtico 6		01.0	02.1		27.0	101.0	27.0	10.0			00.1			1.000
V-119(C19-C20)	Desc.				3.6	3.6	3.6							0.161
V-120(C20-C21)	Desc.	6.7	6.8		5.0	18.5	5.0	13.5						0.200
V-121(C21-C22)	Desc.				3.3	3.3	3.3							0.138
V-122(C22-C23)	Desc.	47.8	45.6		16.0	109.4	16.0	3.0			90.4			0.810
Total Pórtico 6		54.5	52.4		27.9	134.8	27.9	16.5			90.4			1.309
*Pórtico 7			, J											
V-123(C18-C25)	Desc.	26.8	26.8		12.4	66.0	12.4			53.6				0.617
*Pórtico 8														
V-124(C24-C25)	Desc.	52.9	53.0		9.1	115.0	9.1	16.9			89.0			0.496
V-125(C25-C26)	Desc.				8.9	8.9	8.9							0.444
V-126(C26-C27)	Desc.				8.9	8.9	8.9							0.444
V-127(C27-C28)	Desc.	8.2	8.2		8.9	25.3	8.9	16.4						0.444
V-128(C28-C29)	Desc.				8.9	8.9	8.9							0.444
V-129(C29-C30)	Desc.	8.2	8.2		8.9	25.3	8.9	16.4						0.444
V-130(C30-C31)	Desc.				8.9	8.9	8.9							0.444
V-131(C31-C32)	Desc.	8.1	8.2		8.9	25.2	8.9	16.3						0.460
Total Pórtico 8		77.4	77.6		71.4	226.4	71.4	66.0			89.0			3.620
*Pórtico 9						22011		00.0			00.0			0.020
V-132(C36-C37)	Desc.	4.6	4.7		6.3	15.6	6.3	9.3						0.264
*Pórtico 10	2000.				0.0	.0.0	0.0	0.0						0.20
V-133(Pórtico 31-Pórtico 33)	Desc.	63.2	63.2		16.7	143.1	16.7				126.4			0.772
*Pórtico 11	2000.	00.2	00.2											02
V-134(C38-C39)	Desc.	4.6	4.7		6.3	15.6	6.3	9.3						0.264
*Pórtico 12	2000.				0.5	10.0	0.5	0.0						5.20
V-135(C44-C45)	Desc.	61.0	63.8		16.0	140.8	16.0				124.8			0.826
*Pórtico 13	2000.	51.5	30.0		. 5.5	. 10.0	. 5.5							0.020
V-136(C41-C42)	Desc.				2.3	2.3	2.3							0.111
V-137(C42-C43)	Desc.	8.0	7.8		6.3	22.1	6.3	15.8						0.249
V-138(C43-A0)	Desc.				3.6	3.6	3.6							0.135
		I		1	5.0	3.3	3.3							Dágina 1

Total Printice 14		Tipo	A.neg. (kg)	A.pos. (kg)	A.piel (kg)	A.est. (kg)	Total (kg)	Ø6 (kg)	Ø8 (kg)	Ø10 (kg)	Ø12 (kg)	Ø16 (kg)	Ø20 (kg)	Ø25 (kg)	V.horm. (m³)
V-139(CA-CL-CSR)					(Ng)					(Ng)	(Ng)	(Ng)	(Ng)	(Ng)	` ′
Pontion 15		D	20.5	00.4		40.4	50.0	40.4				40.0			0.540
\(\frac{\text{V-14}(C47-C48)}{\text{V-14}(C48-C49)} \text{Desc.}	, ,	Desc.	20.5	22.1		10.4	53.0	10.4				42.6			0.512
\(\text{V-141C4B-C49} \) \(\text{V-142C4B-C49} \) \(\text{V-142C4B-C50} \) \(\text{Dec.} \) \(\text{V-143C4B-C50} \) \(\text{Dec.} \) \(\text{V-143C50-C51} \) \(\text{Dec.} \) \(\text{V-143C50-C51} \) \(\text{Dec.} \) \(\text{V-143C50-C51} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{V-143C50-C52} \) \(\text{Dec.} \) \(\text{V-143C60-C52} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{Dec.} \) \(\text{V-143C60-C52} \) \(\text{Dec.} \		Dana			1.5	2.4	4.0	4.0							0.450
\(\frac{\fra	, ,		0.0	111				I	17.6			2.2			1 1
\(\frac{\fra	, ,														
\(\text{V-144C(S25-CS3)} \) \text{Desc.} 4, 9 4, 5 2, 5 6, 8 18.7 9, 3 4.5 5 20.9 4.9 \\ 0.740 \\ 0.750 \\	, ,			l											
V-145(C62-C63) V-146(C63-C63) Desc. 14.9 V-146(C63-C65) Desc. 15.6 12.9 12.5 15.6 12.8 15.5 15.5 15.6 12.8 15.5 15.5 15.6 12.8 15.5 15.5 15.6 12.8 15.5 15.5 15.6 12.8 15.5 15.5 15.6 12.8 15.6 15.6 15.6 15.6 15.6 15.6 15.6 15.6	, ,			l											
Vi-148 (CSS-CS4)	, ,														
\(\text{V-14F(C56-C56)} \) \(\text{Desc.} \) \(\text{156} \) \(\text{C5C-S6} \) \(\text{Desc.} \) \(\text{150} \) \(\text{C5C-S6} \) \(\text{Desc.} \) \(\text{148} \) \(\text{C5C-S6} \) \(\text{Desc.} \) \(\text{148} \) \(\text{C5C-S6} \) \(\text{Desc.} \) \(\text{148} \) \(\text{C5C-S6} \) \(\text{Desc.} \) \(\text{148} \) \(\text{148} \) \(\text{C5C-S68} \) \(\text{Desc.} \) \(\text{148} \) \(\text{148} \) \(\text{C5C-S68} \) \(\text{Desc.} \) \(\text{148} \) \(\text{148} \) \(\text{148} \) \(\text{C5C-S7C-S8} \) \(\text{Desc.} \) \(\text{128} \) \(\text{148} \) \(\text{148} \) \(\text{148} \) \(\text{150} \	1 '														
V-148(CS6-CS6)	, ,			l							7 4	4.0			1 1
V-149(C56-C57) Desc. 48.0 45.4 42. 42.5 43.2 43.3 10.99 16.5 2.6 9.08 1.365 3.65 7.08 1.26 1.26 1.26 1.26 1.27 1.28 1.28 9.08 1.365 3.65 1.28 1.										3.6					1 1
V-150(C67-C58)	, ,		12.0	l						0.0					1 1
Total Portico 15 V-151(C46-C24) Desc. 12.6 117.4 27.4 74.3 345.7 101.7 114.4 3.6 7.4 118.6 V-151(C46-C24) Desc. 19.5 17.2 2.8 7.9 47.4 10.7 28.5 5.2 3.0 0.867 V-152(C24-C18) Desc. 19.0 19.0 2.1 5.5 4.5 4.5 5.5 30.4 0.670 Aur. 7 38.1 7.1 19.2 105.1 26.3 36.0 2.0 37.8 3.0 V-150(C46-C47) Portico 17 V-154(C46-C47) Desc. 6.7 4.8 2.0 5.5 19.0 7.5 10.5 1.0 V-156(C47-C48) Desc. 22.8 23.4 14.9 61.1 14.9 46.2 V-156(C47-C48) Desc. 25.0 26.1 16.0 67.1 16.0 51.1 V-156(C47-C25) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C47-C26) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C48-C26) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C58-C27) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C59-C20) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C59-C27) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C59-C20) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C59-C00) Desc. 58.0 59.4 15.2 132.6 15.2 V-156(C59-C20) Desc. 58.0 59.4 15.2 132.6 1			48.0									90.8			1 1
**Poffico 16	, ,	D000.								3.6	7.4				
\[\color 1.53 (C18-C01) \] \[\text{Desc.} \] \[\	*Pórtico 16									0.0					
\[\color 15 \text{V-153}(c18-C01) \text{Desc.} \text{19,0} \qq \qq \qq\q\qq\qq\qq\qq\qq\qq\qq\qq\qq\qq\qq\	, ,								28.5			3.0			
Total Pórtico 16 Portico 17 Portico 17 Portico 17 Portico 17 Portico 18 Portico 18 Portico 19 Portico 20 Portico 20 Portico 20 Portico 21 Portico 22 Portico 22 Portico 23 Portico 24 Portico 23 Portico 23 Portico 24 Portico 23 Portico 24 Portico 25 Portico 26 Portico 27 Portico 27 Portico 27 Portico 27 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 23 Portico 27 Portico 27 Portico 27 Portico 28 Portico 29 Portico 29 Portico 20 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 23 Portico 27 Portico 28 Portico 29 Portico 29 Portico 29 Portico 20 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 23 Portico 23 Portico 24 Portico 23 Portico 24 Portico 23 Portico 24 Portico 25 Portico 24 Portico 25 Portico 26 Portico 27 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 27 Portico 27 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 27 Portico 27 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 23 Portico 24 Portico 25 Portico 24 Portico 25 Portico 26 Portico 27 Portico 27 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 27 Portico 27 Portico 27 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 28 Portico 29 Portico 29 Portico 29 Portico 29 Portico 29 Portico 20 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 20 Portico 20 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 20 Portico 26 Portico 27 Portico 27 Portico 27 Portico 28 Portico 29 Portico 29 Portico 29 Portico 29 Portico 20 Poesc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Portico 26 Portico 26 Portico 26 Portico 26 Portico 27 Portico 27 Portico 27 Portico 27 Portico 28 Porti										2.0					
Périco 17	, ,	Desc.													
Portico 18			40.7	38.1	7.1	19.2	105.1	26.3	36.0	2.0	37.8	3.0			2.175
V-155(C46-C25)		Desc.	6.7	4.8	2.0	5.5	19.0	7.5	10.5	1.0					0.626
V-156(C47-C25) Portico 20 V-157(C48-C25) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-158(C25-C02) Desc. 58.0 59.4 116.0 118.8 30.4 265.2 30.4 V-158(C35-C33) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-158(C48-C26) V-159(C48-C26) V-159(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C26-C03) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C27) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-150(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C28-C06) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C29) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-160(C58-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Desc. 58.0 Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Desc. 58.0 Desc. 58.0 Desc. 5	V-155(C46-C25)	Desc.	22.8	23.4		14.9	61.1	14.9			46.2				0.728
Pórtico 20		Dana	25.0	26.4		160	67.1	160			E1 1				0.050
V-158(C25-C02)		Desc.	25.0	26.1		16.0	67.1	16.0			51.1				0.850
Total Pórtico 20	V-157(C48-C25)	Desc.	58.0	59.4		15.2	132.6	15.2				117.4			0.784
Pórtico 21	V-158(C25-C02)	Desc.	58.0	59.4		15.2	132.6	15.2				117.4			0.784
V-159(C49-C26) V-160(C26-C03) Desc. 58.0 59.4 V-160(C27-C04) Desc. 58.0 59.4 V-162(C27-C04) Desc. 58.0 59.4 V-162(C28-C05) Desc. 58.0 59.4 V-164(C28-C05) Desc. 58.0 59.4 V-164(C28-C05) Desc. 58.0 59.4 V-165(C52-C29) Desc. 58.0 59.4 V-165(C52-C29) Desc. 58.0 59.4 V-165(C52-C29) Desc. 58.0 59.4 V-166(C30-C07) Desc. 58.0 59.4 V-166(C50-C07) Desc. 58.0 59.4 V-176(C50-C07) D	Total Pórtico 20		116.0	118.8		30.4	265.2	30.4				234.8			1.568
V-160(C26-C03)	*Pórtico 21														
Total Pórtico 21	V-159(C49-C26)	Desc.	58.0	59.4		15.2	132.6	15.2				117.4			0.784
**Pórtico 22	V-160(C26-C03)	Desc.	58.0	59.4		15.2	132.6	15.2				117.4			0.784
V-161(C50-C27)	Total Pórtico 21		116.0	118.8		30.4	265.2	30.4				234.8			1.568
V-162(C27-C04)	*Pórtico 22														
Total Pórtico 22 *Pórtico 23 V-163(C51-C28) Desc. 58.0 59.4 15.2 132.6 15.2 V-164(C28-C05) Desc. 58.0 59.4 15.2 132.6 15.2 V-165(C52-C29) Desc. 58.0 59.4 15.2 132.6 15.2 V-166(C29-C06) Desc. 58.0 59.4 15.2 132.6 15.2 V-166(C29-C06) Desc. 58.0 59.4 15.2 132.6 15.2 V-166(C29-C06) Desc. 58.0 59.4 15.2 132.6 15.2 V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 V-170(C31-C08) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C55-C41) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C55-C41) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C55-C41) Desc. 58.0 59.4 15.2 132.6 15.2 V-172(C41-C32) Desc. 7.0 7.1 4.2 132.6 15.2 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 42.4 6.8 4.2 42.6 0.205	V-161(C50-C27)	Desc.	58.0	59.4		15.2	132.6	15.2				117.4			0.784
*Pórtico 23 V-163(C51-C28) Desc. 58.0 59.4 V-164(C28-C05) Desc. 58.0 59.4 V-164(C28-C05) Desc. 58.0 59.4 V-164(C28-C05) Desc. 58.0 59.4 V-165(C52-C29) Desc. 58.0 59.4 V-166(C29-C06) Desc. 58.0 59.4 V-166(C29-C06) Desc. 58.0 59.4 V-166(C29-C06) Desc. 58.0 59.4 V-166(C29-C06) Desc. 58.0 59.4 Desc. 58.0 59.4 Desc. 58.0 59.4 Desc. 58.0 59.4 V-167(C53-C30) Desc. 58.0 59.4 V-167(C53-C30) Desc. 58.0 59.4 Desc. 58.0 59.4 Desc. 58.0 59.4 V-166(C39-C07) Desc. 58.0 59.4 Desc. 58.0 59.	V-162(C27-C04)	Desc.	58.0	59.4		15.2	132.6	15.2				117.4			0.784
V-163(C51-C28)	1		116.0	118.8		30.4	265.2	30.4				234.8			1.568
V-164(C28-C05)	1														
Total Pórtico 23 *Pórtico 24 V-165(C52-C29) Desc. 58.0 59.4 15.2 132.6 15.2 V-166(C29-C06) Desc. 58.0 59.4 15.2 132.6 15.2 Total Pórtico 24 Pórtico 24 V-166(C29-C06) Desc. 58.0 59.4 15.2 132.6 15.2 V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 V-170(C31-C08) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C55-C41) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C55-C41) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C55-C41) Desc. 58.0 59.4 15.2 132.6 15.2 V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 4234.8 1.568 117.4 0.784 1.568 116.0 118.8 0.284 0.284 0.285 0.285 0.295 0.40 0.40 0.41 0.426	V-163(C51-C28)	Desc.					132.6								
*Pórtico 24 V-165(C52-C29) Desc. 58.0 59.4 15.2 132.6 15.2 V-166(C29-C06) Desc. 58.0 59.4 15.2 132.6 15.2 V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 V-169(C54-C31) V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 V-170(C31-C08) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C55-C41) Desc. 58.0 59.4 15.2 132.6 15.2 V-171(C31-C32) V-171(C31-C32) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 V-168(C30-C07) Desc. 20.8 21.8 4.2 46.8 4.2 V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 Desc. 7.0 7.1 4.2 18.3 4.2 46.8 4.2 V-173(C31-C09) Desc. 20.8 21.8 4.2 46.8 4.2 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2	, ,	Desc.													
V-166(C29-C06) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Total Pórtico 24 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 25 V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Total Pórtico 25 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 26 116.0 118.8 30.4 265.2 30.4 234.8 1.568 V-170(C31-C08) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Total Pórtico 26 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 27 V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 51.9			116.0	118.8		30.4	265.2	30.4				234.8			1.568
Total Pórtico 24 *Pórtico 25 V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 Total Pórtico 25 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 Total Pórtico 25 *Pórtico 26 V-169(C54-C31) V-170(C31-C08) Total Pórtico 26 *Pórtico 27 *V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 *Pórtico 27 *V-171(C55-C41) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 *V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 *V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 *Inc. 118.4 0.784 *Inc. 128.4 1.568 *Inc. 12	V-165(C52-C29)	Desc.	58.0	59.4		15.2	132.6	15.2				117.4			0.784
Total Pórtico 24 *Pórtico 25 V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 Total Pórtico 25 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 Total Pórtico 25 *Pórtico 26 V-169(C54-C31) V-170(C31-C08) Total Pórtico 26 *Pórtico 27 *V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 *Pórtico 27 *V-171(C55-C41) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 *V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 *V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 *Inc. 118.4 0.784 *Inc. 128.4 1.568 *Inc. 12				l											
V-167(C53-C30) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Total Pórtico 25 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 26 117.4 0.784 <td>Total Pórtico 24</td> <td></td> <td>1 1</td>	Total Pórtico 24														1 1
V-168(C30-C07) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Total Pórtico 25 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 26 V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-170(C31-C08) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Total Pórtico 26 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 27 V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 51.9 0.239 V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 0.284 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 0.176 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2		Doso	59.0	50.4		15.0	130 6	15 2				117 4			0.704
Total Pórtico 25 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 26 V-169(C54-C31) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 V-170(C31-C08) Desc. 58.0 59.4 15.2 132.6 15.2 117.4 0.784 Total Pórtico 26 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 27 V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 51.9 0.239 V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 0.284 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 0.176 V-174(C19-C13) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205															
*Pórtico 26 V-169(C54-C31) Desc. 58.0 59.4 V-170(C31-C08) Total Pórtico 26 *Pórtico 27 V-171(C55-C41) Pesc. 26.0 26.3 V-172(C41-C32) V-173(C32-C19) Desc. 7.0 V-174(C19-C13) Desc. 20.8 21.8 *Pórtico 26 *Pórtico 27 V-175(C13-C09) Desc. 20.8 21.8 *Pórtico 27 V-171(DESC-C41) Desc. 26.0 26.3 Desc. 7.0 Desc. 7.0 Desc. 7.0 Desc. 20.8 21.8 *Pórtico 27 V-174(C19-C13) Desc. 7.0 Desc. 20.8 21.8 *Pórtico 27 V-174(C19-C13) Desc. 20.8 21.8 *Pórtico 27 V-175(C13-C09) *Pórtico 27 V-174(C19-C13) Desc. 20.8 21.8 *Pórtico 27 V-174(C19-C13) Desc. 20.8 21.	, ,	Desc.						I							
V-170(C31-C08) Desc. 58.0 59.4 15.2 132.6 15.2 132.6 15.2 117.4 0.784 Total Pórtico 26 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 27 V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 51.9 0.239 V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 0.284 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 0.176 V-174(C19-C13) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205			116.0	110.0		30.4	205.2	30.4				234.0			1.500
Total Pórtico 26 116.0 118.8 30.4 265.2 30.4 234.8 1.568 *Pórtico 27 V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 51.9 0.239 V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 0.284 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 0.176 V-174(C19-C13) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205	V-169(C54-C31)	Desc.													
*Pórtico 27 V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 V-174(C19-C13) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205		Desc.													1 1
V-171(C55-C41) Desc. 26.0 26.3 5.0 57.3 5.0 0.4 51.9 0.239 V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 0.284 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 0.176 V-174(C19-C13) Desc. 3.3 3.3 3.3 3.3 0.142 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205	1		116.0	118.8		30.4	265.2	30.4				234.8			1.568
V-172(C41-C32) Desc. 9.9 8.1 7.1 25.1 7.1 18.0 0.284 V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 0.176 V-174(C19-C13) Desc. 3.3 3.3 3.3 0.142 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205		Desc	26.0	26.3		5.0	57.3	5.0	0.4			51 9			0 239
V-173(C32-C19) Desc. 7.0 7.1 4.2 18.3 4.2 14.1 0.176 V-174(C19-C13) Desc. 3.3 3.3 3.3 4.2 42.6 0.142 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205												31.3			1 1
V-174(C19-C13) Desc. 3.3 3.3 3.3 0.142 V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205								I							1 1
V-175(C13-C09) Desc. 20.8 21.8 4.2 46.8 4.2 42.6 0.205	1 '		7.5	''				I							1 1
			20.8	21.8				- 1				42.6			
10tat 10tat 05.7 05.5 25.6 150.8 25.8 32.5 94.5 10tat 10tat 10tat 10tat	Total Pórtico 27		63.7	63.3		23.8	150.8	23.8	32.5			94.5			1.046

	Tipo	A.neg.	A.pos.	A.piel	A.est.	Total	Ø6	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	V.horm.
*Pórtico 28	·	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(m³)
	Door	2.2	2.2		ا م د	8.0	3.6	4.4						0.456
V-176(C38-C36)	Desc.	2.2	2.2		3.6	6.0	3.0	4.4						0.156
*Pórtico 29 V-177(C39-C37)	Dooo	2.2	2.2		3.6	8.0	3.6	4.4						0.156
	Desc.	2.2	2.2		3.0	0.0	3.0	4.4						0.136
*Pórtico 30	Desc.	23.2	23.2		ا م ا	F6 0	9.6				46.4			0.460
V-178(C56-A7)		23.2	23.2		9.6	56.0					40.4			
V-179(A7-C44)	Desc.	00.0	22.0		1.3	1.3	1.3				40.4			0.056
Total Pórtico 30 *Pórtico 31		23.2	23.2		10.9	57.3	10.9				46.4			0.516
V-180(C44-C40)	Desc.	2.4	0.5		0.8	3.7	0.8	0.5		2.4				0.059
V-180(C44-C40) V-181(C40-Pórtico 10)	Desc.	0.7	0.5		3.3	4.7	3.3	0.5	0.7	2.4				0.039
V-182(Pórtico 10-C34)	Desc.	1.0	0.7		1.3	2.3	1.3	0.7	1.0					0.132
V-183(C34-C22)	Desc.	7.2	7.9		4.2	19.3	4.2	15.1	1.0					0.036
V-184(C22-C16)	Desc.	1.2	7.9		3.3	3.3	3.3	15.1						0.176
, ,	Desc.	100	19.1		4.2	41.3	4.2				37.1			0.142
V-185(C16-C11) Total Pórtico 31	Desc.	18.0 29.3	28.2		17.1	74.6	4.2 17.1	16.3	1.7	2.4	37.1			0.205
*Pórtico 32		29.3	20.2		17.1	74.0	17.1	10.3	1.7	2.4	37.1			0.770
	Dooo	24.3	26.4			56.5	5.8				50.7			0.279
V-186(C57-C44) *Pórtico 33	Desc.	24.3	26.4		5.8	50.5	5.6				30.7			0.219
V-187(C58-C45)	Desc.	34.0	27.0	2.1	5.5	68.6	7.6	7.0			54.0			0.671
V-188(C45-Pórtico 10)	Desc.	34.0	8.6	1.7	4.4	14.7	6.1	7.0	8.6		34.0			0.671
V-189(Pórtico 10-C35)	Desc.	1.1	0.0	0.8	1.4	3.3	2.2		1.1					0.431
V-199(C35-C23)	Desc.	9.3	8.0	1.6	4.1	23.0	5.7	17.3	1.1					0.140
V-190(C33-C23) V-191(C23-C17)	Desc.	9.5	0.0	1.3	3.1	4.4	4.4	17.3						0.439
V-191(C23-C17) V-192(C17-C12)	Desc.	22.3	22.3	1.6	4.1	50.3	5.7				44.6			0.512
Total Pórtico 33	Desc.	66.7	65.9	9.1	22.6	164.3	31.7	24.3	9.7		98.6			2.569
Total NIVEL -0.15		1848.2	1831.9	74.0	746.7	4500.8	820.7	489.3	21.7	284.7	2868.9	15.5		49.177
NIVEL +3.05		1040.2	1031.9	74.0	740.7	4300.0	020.7	403.3	21.7	204.7	2000.9	13.3		45.177
*Pórtico 1														
V-201(C09-C10)	Desc.	8.9	7.9		5.1	21.9	5.1	15.3	1.5					0.346
V-202(C10-C11)	Desc.	0.9	1.0		5.1	6.1	5.1	1.0	1.5					0.344
Total Pórtico 1	D030.	8.9	8.9		10.2	28.0	10.2	16.3	1.5					0.690
*Pórtico 2		0.5	0.0		10.2	20.0	10.2	10.0	1.0					0.000
V-203(C13-C14)	Desc.				3.3	3.3	3.3							0.212
V-204(C14-C15)	Desc.	7.4	7.6		4.6	19.6	4.6	15.0						0.266
V-205(C15-C16)	Desc.	1.9	0.7		3.0	5.6	3.0	0.7		1.9				0.196
Total Pórtico 2	D000.	9.3	8.3		10.9	28.5	10.9	15.7		1.9				0.674
*Pórtico 3		0.0	0.0		10.0	20.0	10.0	10.7		1.0				0.07
V-206(C19-C20)	Desc.				3.3	3.3	3.3							0.212
V-207(C20-C21)	Desc.	8.3	8.4		4.6	21.3	4.6	15.1	1.6					0.266
V-208(C21-C22)	Desc.	2.5	0.1		3.0	5.5	3.0	10.1	2.5					0.196
Total Pórtico 3		10.8	8.4		10.9	30.1	10.9	15.1	4.1					0.674
*Pórtico 4														
V-209(C33-C34)	Desc.	1.0	2.8		1.1	4.9	1.1	1.0		2.8				0.056
*Pórtico 5														
V-210(A2-C36)	Desc.	3.1			3.0	6.1	3.0		3.1					0.127
V-211(C36-C37)	Desc.	6.0	10.2		7.1	23.3	7.1	12.0	4.2					0.331
V-212(C37-A1)	Desc.	4.3			2.3	6.6	2.3				4.3			0.096
Total Pórtico 5		13.4	10.2		12.4	36.0	12.4	12.0	7.3		4.3			0.554
*Pórtico 6														
V-213(A3-C38)	Desc.				2.5	2.5	2.5							0.127
V-214(C38-C39)	Desc.	9.7	8.5		5.8	24.0	5.8	13.4	4.8					0.331
V-215(C39-Pórtico 12)	Desc.	1.6			1.8	3.4	1.8	1.6						0.096
V-216(Pórtico 12-C40)	Desc.				1.3	1.3	1.3							0.080
Total Pórtico 6		11.3	8.5		11.4	31.2	11.4	15.0	4.8					0.634
*Pórtico 7														
V-217(C41-C42)	Desc.	2.8			2.0	4.8	2.0		2.8					0.147
V-218(C42-C43)	Desc.	6.6	8.7		5.6	20.9	5.6	13.4	1.9					0.331
V-219(C43-Pórtico 13)	Desc.	3.0			3.0	6.0	3.0		3.0					0.176
Total Pórtico 7		12.4	8.7		10.6	31.7	10.6	13.4	7.7					0.654
	1	1		I	ı								l	
*Pórtico 8						ļ								

	Tipo	A.neg.	A.pos.	A.piel	A.est.	Total	Ø6	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	V.horm.
\\ 224(CEC CE7\	Desc.	(kg) 1.9	(kg) 1.7	(kg)	(kg) 5.1	(kg) 8.7	(kg) 5.1	(kg) 1.9	(kg) 1.7	(kg)	(kg)	(kg)	(kg)	(m³) 0.344
V-221(C56-C57) Total Pórtico 8	Desc.	9.3	9.6		10.2	29.1	10.2	17.2	1.7					0.344
*Pórtico 9		9.3	9.6		10.2	29.1	10.2	17.2	1.7					0.690
V-222(C55-C41)	Desc.	2.0	0.8		4.8	7.6	4.8	0.8	2.0					0.304
	Desc.		8.1			22.9	6.3	16.6	2.0					0.304
V-223(C41-C32)	Desc.	8.5	0.1		6.3	4.4	3.8	0.6						0.379
V-224(C32-C19)		0.6			3.8			0.6						
V-225(C19-C13)	Desc.	7.5	7.0		3.0	3.0	3.0	44.5						0.190
V-226(C13-C09)	Desc.	7.5	7.0		4.1	18.6	4.1	14.5 32.5	0.0					0.259
Total Pórtico 9		18.6	15.9		22.0	56.5	22.0	32.5	2.0					1.366
*Pórtico 10	D	20	2.5			0.5	2.0	2.0	2.5					0.004
V-227(C38-C36)	Desc.	2.0	3.5		3.0	8.5	3.0	2.0	3.5					0.204
*Pórtico 11	Dana	2.0	2.9		, ,	0.4	3.2	4.0						0.007
V-228(A6-A5)	Desc.	2.0	2.9		3.2	8.1	3.2	4.9						0.097
*Pórtico 12	D				4.0	45.0	4.0	40.0						0.007
V-229(Pórtico 6-C33)	Desc.	5.2	5.4		4.6	15.2	4.6	10.6						0.267
V-230(C33-A0)	Desc.	F 2	0.8 6.2		3.8	4.6 19.8	3.8 8.4	0.8 11.4						0.226 0.493
Total Pórtico 12		5.2	0.2		8.4	19.0	0.4	11.4						0.493
*Pórtico 13	Door	100			,	20.5	4.0	6.0	F 0	2.5	0.4			0.200
V-231(C57-Pórtico 7)	Desc.	10.0	7.7		4.8	22.5	4.8	6.9	5.2	2.5 2.0	3.1			0.296
V-232(Pórtico 7-C44)	Desc.		2.0 1.5		0.5 2.5	2.5 4.0	0.5 2.5		1.5	2.0				0.032 0.064
V-233(C44-C40)	Desc.	4.7						0.5			4.7			
V-234(C40-C34)	Desc.	4.7	10.8		4.6	20.1	4.6	8.5	2.3		4.7			0.275
V-235(C34-C22)	Desc.				3.8	3.8	3.8							0.234
V-236(C22-C16)	Desc.	7.0	0.0		3.0	3.0	3.0	0.7	0.0					0.190
V-237(C16-C11)	Desc.	7.8	2.8		4.1	14.7	4.1	9.7	0.9		7.0			0.259
Total Pórtico 13		22.5	24.8		23.3	70.6	23.3	25.1	9.9	4.5	7.8			1.350
Total NIVEL +3.05		126.7	118.7		137.6	383.0	137.6	181.6	42.5	9.2	12.1			8.136
NIVEL +6.15														
*Pórtico 1	_		00.7	0.5		44.0	0.0	0.0			00.7			0.770
V-301(C01-C02)	Desc.	8.2	23.7	2.5	6.8	41.2	9.3	8.2	40.5		23.7			0.778
V-302(C02-C03)	Desc.	10.5	9.7	2.5	6.8	29.5	9.3	4.3	10.5	0.5	5.4			0.740
V-303(C03-C04)	Desc.	12.1	13.1	2.5	6.8	34.5	9.3	2.5	6.6	6.5	9.6			0.740
V-304(C04-C05)	Desc.	11.3	6.8	2.5	6.8	27.4	9.3	10.5	7.6	0.7				0.740
V-305(C05-C06)	Desc.	15.4	15.6	2.5	6.8	40.3	9.3	12.0	16.3	2.7				0.740
V-306(C06-C07)	Desc.	10.0	11.8	2.5	6.8	31.1	9.3	21.8						0.740
V-307(C07-C08)	Desc.	14.3	12.1	2.5	6.8	35.7	9.3	3.2	14.4	8.8				0.740
V-308(C08-C09)	Desc.	14.5	11.7	2.5	6.8	35.5	9.3	12.5	5.9	7.8				0.740
V-309(C09-C10)	Desc.	3.6	8.3	2.1	5.5	19.5	7.6	3.6	5.6	2.7			05.5	0.611
V-310(C10-C11)	Desc.	48.4	11.1	2.1	5.8	67.4	7.9	7.1	16.9	00.4	40.0		35.5	0.608
V-311(C11-C12)	Desc.	28.0	75.4	4.2	17.4	125.0	14.8	8.6	26.2	33.4	42.0		25.5	1.350
Total Pórtico 1		176.3	199.3	28.4	83.1	487.1	104.7	94.3	110.0	61.9	80.7		35.5	8.527
*Pórtico 2	D	0.0	0.4			7.0	2.0	4.0						0.405
V-312(A29-A30)	Desc.	2.2	2.4		3.3	7.9	3.3	4.6						0.185
*Pórtico 3 V-313(C13-C16)	Door	74.0	60.0	447	22.5	100.0	44 -	33.5		22.7	60.0	50.3		0.400
, ,	Desc.	74.0	60.8	11.7	33.5	180.0	11.7			23.7	60.8	່ ວ∪.≾	100.0	2.483
V-314(C16-C17)	Desc.	36.6	120.1	12.3	45.7	214.7	12.3	22.3		29.8 53.5	47.1	E0.2	103.2	2.640
Total Pórtico 3 *Pórtico 4		110.6	180.9	24.0	79.2	394.7	24.0	55.8		53.5	107.9	50.3	103.2	5.123
^Portico 4 V-315(C19-C22)	Desc.	86.9	74.2	11.7	35.7	208.5	11.7	21.3	36.0		74.2	21.0	44.3	2.483
											74.2		44.3	
V-316(C22-C23)	Desc.	22.9	121.6	12.3	41.5	198.3	12.3	22.3	42.1		740	121.6	440	2.640
Total Pórtico 4 *Pórtico 5		109.8	195.8	24.0	77.2	406.8	24.0	43.6	78.1		74.2	142.6	44.3	5.123
	Dana	2.6	6.5		4.2	12.4	4.2	2.6		6.5				0.224
V-317(A21-A22)	Desc.	2.6	6.5		4.3	13.4	4.3	2.6		6.5				0.231
*Pórtico 6	Door	20.4	00.4	2.0	20.0	450.4		7.4	40.0	40.0		455	00.4	0.004
V-318(C24-C25)	Desc.	26.1	92.4	2.6	29.3	150.4	5.7	7.4	10.6	18.8	0.0	15.5	92.4	0.804
V-319(C25-C26)	Desc.	37.3	16.5	2.5	12.4	68.7	9.0	44.	10.0	22.3	9.6	17.8		0.740
V-320(C26-C27)	Desc.	20.3	26.1	2.5	12.2	61.1	6.6	14.4	2.8	25.3	12.0			0.740
V-321(C27-C28)	Desc.	27.8	21.8	2.5	12.7	64.8	15.2	5.4	16.5	22.2	5.5			0.740
V-322(C28-C29)	Desc.	21.9	23.3	2.5	12.2	59.9	6.6	14.4	9.8	29.1	100			0.740
V-323(C29-C30)	Desc.	22.1	21.4	2.5	12.2	58.2	6.6	8.1	16.5	15.0	12.0			0.740
V-324(C30-C31)	Desc.	19.3	26.1	2.5	12.7	60.6	15.2	8.5	4.0	24.9	12.0	7.0		0.740
V-325(C31-C32)	Desc.	17.9	17.2	2.5	14.6	52.2	9.0	8.1	1.8	25.5		7.8		0.740

		A.neg.	A.pos.	A.piel	A.est.	Total	Ø6	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	V.horm.
	Tipo	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(m³)
V-326(C32-C33)	Desc.	44.3	109.8	10.3	35.0	199.4	10.3	14.2	30.0		16.9		128.0	2.177
Total Pórtico 6		237.0	354.6	30.4	153.3	775.3	84.2	80.5	98.0	183.1	68.0	41.1	220.4	8.161
*Pórtico 7														
V-327(C34-C35)	Desc.	7.3	184.4	12.3	44.4	248.4	12.3	37.7		14.0	70.1		114.3	2.678
*Pórtico 8														
V-328(A5-A17)	Desc.	2.6	6.3		4.3	13.2	4.3	2.6	6.3					0.231
*Pórtico 9														
V-329(A7-A8)	Desc.	2.6	2.8		4.3	9.7	4.3	5.4						0.130
*Pórtico 10	_													
V-330(A0-C44)	Desc.	152.4	111.8	11.7	59.9	335.8	11.7	17.3		40.7	112.5	111.8	82.5	2.393
V-331(C44-C45)	Desc.	60.6	203.6	12.3	99.1	375.6	12.3	12.2		18.7	128.8	444.0	203.6	2.640
Total Pórtico 10		213.0	315.4	24.0	159.0	711.4	24.0	29.5		18.7	241.3	111.8	286.1	5.033
*Pórtico 11 V-332(C47-C48)	Desc.		4.8	1.5	3.4	9.7	4.9	2.7		2.1				0.454
V-333(C48-C49)	Desc.	14.6	13.1	2.5	6.8	37.0	9.3	6.5	9.7	11.5				0.454
V-334(C49-C50)	Desc.	9.9	7.4	2.5	6.8	26.6	9.3	0.5	4.7	2.7	9.9			0.740
V-335(C50-C51)	Desc.	14.5	15.3	2.5	6.8	39.1	9.3	16.4	10.8	2.6	5.5			0.740
V-336(C51-C52)	Desc.	13.4	7.4	2.5	6.8	30.1	9.3	10.4	4.7	11.1	5.0			0.740
V-337(C52-C53)	Desc.	10.0	15.4	2.5	6.8	34.7	9.3	25.4			0.0			0.740
V-338(C53-C54)	Desc.	8.7	12.1	2.5	6.8	30.1	9.3	2.3	9.7	8.8				0.740
V-339(C54-C55)	Desc.	19.6	11.3	2.5	6.8	40.2	9.3	14.8	5.9	5.1	5.1			0.740
V-340(C55-C56)	Desc.	3.6	10.3	2.1	5.5	21.5	7.6	3.6		10.3				0.611
V-341(C56-C57)	Desc.	31.9	4.1	2.1	5.8	43.9	7.9	4.1		8.0		23.9		0.608
V-342(C57-C58)	Desc.	54.7	94.0	4.2	20.5	173.4	24.7	1.8		47.5	67.8	31.6		1.350
Total Pórtico 11		180.9	195.2	27.4	82.8	486.3	110.2	77.6	45.5	109.7	87.8	55.5		8.203
*Pórtico 12														
V-343(C46-C24)	Desc.	9.7	42.5	2.8	8.6	63.6	11.4	7.2	2.5		42.5			0.864
V-344(C24-C18)	Desc.	27.3	3.6	2.2	6.2	39.3	8.4	3.6			27.3			0.638
V-345(C18-C01)	Desc.	12.8	18.6	2.1	5.8	39.3	7.9	5.4		18.6	7.4			0.643
Total Pórtico 12		49.8	64.7	7.1	20.6	142.2	27.7	16.2	2.5	18.6	77.2			2.145
*Pórtico 13														
V-346(C46-C47)	Desc.	3.6	24.9	2.0	5.5	36.0	7.5	3.6				24.9		0.608
*Pórtico 14														
V-347(C48-C25)	Desc.	83.7	189.5	12.1	83.5	368.8	12.1	12.7	13.3		115.6		215.1	2.987
V-348(C25-C02)	Desc.	143.3	188.7	12.1	83.5	427.6	12.1	12.7	13.3		115.6	21.0	252.9	2.979
Total Pórtico 14		227.0	378.2	24.2	167.0	796.4	24.2	25.4	26.6		231.2	21.0	468.0	5.966
*Pórtico 15	D	400.0	4040	40.4	00.5	404.5	40.4	40.7	44.0	00.4	44.0		004.0	0.007
V-349(C49-C26)	Desc.	139.0	184.9	12.1	68.5	404.5	12.1	12.7	11.6	32.1	44.2		291.8	2.987
V-350(C26-C03)	Desc.	37.2	184.9 369.8	12.1 24.2	69.1 137.6	303.3 707.8	12.1 24.2	11.6 24.3	26.6 38.2	37.2 69.3	30.9 75.1		184.9 476.7	2.987 5.974
Total Pórtico 15 *Pórtico 16		176.2	309.0	24.2	137.0	707.6	24.2	24.3	30.2	69.3	75.1		4/6./	5.974
V-351(C50-C27)	Desc.	37.2	185.7	12.1	75.0	310.0	12.1	26.4		37.2	48.6		185.7	2.987
V-351(C30-C27) V-352(C27-C04)	Desc.	139.0	184.9	12.1	75.0	411.0	12.1	26.4		32.1	48.6		291.8	2.987
Total Pórtico 16	2000.	176.2	370.6	24.2	150.0	721.0	24.2	52.8		69.3	97.2		477.5	5.974
*Pórtico 17			0.0.0		. 55.5	. 21.3		32.0		55.5	51.2			0.07
V-353(C51-C28)	Desc.	139.0	184.9	12.1	74.6	410.6	12.1	12.7	13.3	32.1	48.6		291.8	2.987
V-354(C28-C05)	Desc.	37.2	184.9	12.1	75.0	309.2	12.1	26.4		37.2	48.6		184.9	2.987
Total Pórtico 17		176.2	369.8	24.2	149.6	719.8	24.2	39.1	13.3	69.3	97.2		476.7	5.974
*Pórtico 18														
V-355(C52-C29)	Desc.	37.3	185.7	12.1	72.9	308.0	12.1	12.7	11.6	37.3	48.6		185.7	2.987
V-356(C29-C06)	Desc.	136.1	184.9	12.1	74.6	407.7	12.1	12.7	13.3	32.1	48.6		288.9	2.987
Total Pórtico 18		173.4	370.6	24.2	147.5	715.7	24.2	25.4	24.9	69.4	97.2		474.6	5.974
*Pórtico 19														
V-357(C53-C30)	Desc.	99.2	186.8	12.1	72.9	371.0	12.1	12.7	11.6		107.0		227.6	2.987
V-358(C30-C07)	Desc.	112.4	185.7	12.1	74.6	384.8	12.1	12.7	13.3		107.0	54.0	185.7	2.987
Total Pórtico 19		211.6	372.5	24.2	147.5	755.8	24.2	25.4	24.9		214.0	54.0	413.3	5.974
*Pórtico 20														
V-359(C54-C31)	Desc.	37.2	183.0	12.1	68.9	301.2	12.1	25.3		80.8			183.0	2.987
V-360(C31-C08)	Desc.	136.1	184.9	12.1	69.6	402.7	12.1	12.7	13.3	75.7			288.9	2.987
Total Pórtico 20		173.3	367.9	24.2	138.5	703.9	24.2	38.0	13.3	156.5			471.9	5.974
*Pórtico 21					,_			,			c			,
V-361(C55-C41)	Desc.	15.2	13.7	5.8	12.2	46.9	5.8	12.2	3.2		25.7			1.140

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	Tipo	A.neg. (kg)	A.pos. (kg)	A.piel	A.est.	Total	Ø6 (kg)	Ø8 (kg)	Ø10 (kg)	Ø12 (kg)	Ø16 (kg)	Ø20 (kg)	Ø25 (kg)	V.horm. (m³)
V-362(C41-C32)	Desc.	(kg) 10.7	(kg) 40.5	(kg) 7.1	(kg) 26.2	(kg) 84.5	(kg) 7.1	(kg) 19.9	(kg) 3.0	14.0	(kg)	(kg)	40.5	1.421
V-363(C32-C19)	Desc.	13.1	40.5	4.7	9.1	31.3	4.7	13.5	3.0	14.0	13.1		40.5	0.879
V-364(C19-C13)	Desc.	6.7	4.4		7.1	17.8	4.7	7.1		6.7	13.1			0.879
V-365(C13-C09)		4.7	12.3	4.0 5.0	10.1	32.1	5.0	14.8		6.7	12.3			0.711
Total Pórtico 21	Desc.	50.4	70.9	26.6	64.7	212.6	26.6	67.5	6.2	20.7	51.1		40.5	5.122
*Pórtico 22		50.4	70.9	∠0.0	04.7	212.0	20.0	67.5	0.2	20.7	51.1		40.5	5.122
	D		44.7		- 0	22.5	5.8	0.0		44.7				0.245
V-366(A2-A16)	Desc.	6.0 4.7	11.7 3.8		5.8 3.8	23.5	3.8	6.0 2.6	1.2	11.7 4.7				0.315 0.210
V-367(A16-A18)	Desc.					12.3		-						
Total Pórtico 22		10.7	15.5		9.6	35.8	9.6	8.6	1.2	16.4				0.525
*Pórtico 23	_		40.0			0.4.0	4.0	7.0			40.0			
V-368(A4-A17)	Desc.	7.3	12.6		4.3	24.2	4.3	7.3			12.6			0.232
V-369(A17-A20)	Desc.		3.0		1.8	4.8	1.8	1.1	1.9					0.067
V-370(A20-A19)	Desc.	4.4	5.4		3.8	13.6	3.8		5.4	4.4				0.210
Total Pórtico 23		11.7	21.0		9.9	42.6	9.9	8.4	7.3	4.4	12.6			0.509
*Pórtico 24														
V-371(A9-C33)	Desc.	12.3	9.5		6.0	27.8	6.0	6.0	9.5			6.3		0.184
V-372(C33-A11)	Desc.		3.3		3.9	7.2	3.9	3.3						0.125
Total Pórtico 24		12.3	12.8		9.9	35.0	9.9	9.3	9.5			6.3		0.309
*Pórtico 25														
V-373(C57-C44)	Desc.	8.5	30.6	2.1	8.6	49.8	7.6	8.6		3.0	30.6			0.644
V-374(C44-C34)	Desc.	15.7	12.9	2.2	6.2	37.0	8.4	15.6	2.8	5.0	5.2			0.636
V-375(C34-C22)	Desc.	5.9		1.6	4.1	11.6	5.7	0.8		5.1				0.439
V-376(C22-C16)	Desc.	1.1		1.3	3.1	5.5	4.4		1.1					0.356
V-377(C16-C11)	Desc.	5.4	14.5	1.7	4.1	25.7	5.8	5.4		14.5				0.485
Total Pórtico 25		36.6	58.0	8.9	26.1	129.6	31.9	30.4	3.9	27.6	35.8			2.560
*Pórtico 26														
V-378(A28-A27)	Desc.	2.8	9.4		4.3	16.5	4.3	2.8		9.4				0.233
*Pórtico 27														
V-379(C58-C45)	Desc.		15.1	2.1	5.8	23.0	7.9				15.1			0.644
V-380(C45-C35)	Desc.	13.5	12.1	2.2	6.2	34.0	8.4	19.6	1.7		4.3			0.636
V-381(C35-C23)	Desc.	3.1		1.6	4.1	8.8	5.7		3.1					0.439
V-382(C23-C17)	Desc.			1.3	3.1	4.4	4.4							0.356
V-383(C17-C12)	Desc.	7.0	3.8	1.7	4.1	16.6	5.8	10.8						0.485
Total Pórtico 27		23.6	31.0	8.9	23.3	86.8	32.2	30.4	4.8		19.4			2.560
Total NIVEL +6.15		2560.3	4551.2	393.4	1906.8	9411.7	728.6	841.8	514.5	978.3	1738.0	507.5	4103.0	100.006
Total Obra		4535.2	6501.8	467.4	2791.1	14295.5	1686.9	1512.7	578.7	1272.2	4619.0	523.0	4103.0	157.319

- A.neg.: Armado de negativos

- A.pos.: Armado de positivos

- A.piel: Armado piel

- A.est.: Armado estribos

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	Resumen de cómputo (+10%)										
	Tipo Acero	Ø6 (kg)	Ø8 (kg)	Ø10 (kg)	Ø12 (kg)	Ø16 (kg)	Ø20 (kg)	Ø25 (kg)	Total (kg)		
NIVEL -0.15	ADN 420	902.8	538.2	23.9	313.2	3155.8	17.1		4951.0		
NIVEL +3.05	ADN 420	151.4	199.8	46.8	10.1	13.3			421.4		
NIVEL +6.15	ADN 420	801.5	926.0	566.0	1076.1	1911.8	558.3	4513.3	10353.0		
Total Obra		1855.7	1664.0	636.7	1399.4	5080.9	575.4	4513.3	15725.4		

2. CUANTÍAS DE OBRA

Notas:

Barras: Los valores indicados tienen incluidas las mermas.

Superficie total: Se han deducido los huecos de superficie mayor de 0.00 m².

Fundación

Elemento	Encofrado (m²)	Volumen (m³)	Barras (kg)
Zapatas aisladas	217.30	73.722	4779
Total	-	73.722	4779

NIVEL -0.15

Elemento	Encofrado (m²)	Superficie (m²)	Volumen (m³)	Barras (kg)
Vigas	299.30	118.26	49.180	4949
Columnas	159.36	-	20.390	4493
Total	-	118.26	69.570	9442
Índices (por m²)	-	-	0.524	71.14
Superficie total: 132.72 m²				

NIVEL +3.05

Elemento	Encofrado (m²)	Superficie (m²)	Volumen (m³)	Barras (kg)
Losas macizas	-	112.47	12.370	687
Vigas	60.74	18.38	8.140	421
Columnas	357.72	-	33.040	4536
Escaleras	-	25.50	4.041	420
Total	-	156.35	57.591	6064
Índices (por m²)	-	-	0.417	43.95
Superficie total: 137.99 m²			•	

NIVEL +6.15

Elemento	Encofrado (m²)	Superficie (m²)	Volumen (m³)	Barras (kg)
Losas macizas	-	836.85	125.530	16583
Vigas	496.68	125.78	100.010	10350
Columnas	47.08	-	4.200	683
Escaleras	-	14.49	2.361	188
Total	-	977.12	232.101	27804
Índices (por m²)	-	-	0.239	28.68
Superficie total: 969.33 m²				

ELECTRONORTE Fecha: 01/05/23

Total obra

Elemento	Encofrado (m²)	Volumen (m³)	Barras (kg)
Zapatas aisladas	217.30	73.720	4779
Total	-	73.720	4779

Elemento	Encofrado (m²)	Superficie (m²)	Volumen (m³)	Barras (kg)
Losas macizas	-	949.32	137.900	17270
Vigas	856.72	262.42	157.330	15720
Columnas	564.16	-	57.630	9712
Escaleras	-	39.99	6.400	608
Total	-	1251.73	359.260	43310
Índices (por m²)	-	-	0.290	34.93
Superficie total: 1240.04 m ²				

3. SUPERFICIES/VOLÚMENES

* No se miden: Elementos de fundación.

Grupo de Plantas Número 1: NIVEL -0.15

Número Plantas Iguales: 1

Superficie total: 132.72 m2 Superficie total losas: -0.10 m2 Área de huecos: -0.10 m2

Superficie en planta de vigas, zunchos y muros: 118.26 m2 Superficie lateral de vigas, zunchos y muros: 299.30 m2

Hormigón total en vigas: 49.18 m3

Vigas: 49.18 m3

Volumen total losas: 0.00 m3

Grupo de Plantas Número 2: NIVEL +3.05

Número Plantas Iguales: 1

Superficie total: 137.99 m2 Superficie total losas: 112.47 m2 Losas macizas: 112.47 m2

Superficie en planta de vigas, zunchos y muros: 18.38 m2 Superficie lateral de vigas, zunchos y muros: 60.74 m2

Hormigón total en vigas: 8.14 m3

Vigas: 8.14 m3

Volumen total losas: 12.37 m3 Losas macizas: 12.37 m3

ELECTRONORTE Fecha: 01/05/23

Grupo de Plantas Número 3: NIVEL +6.15

Número Plantas Iguales: 1

Superficie total: 969.33 m2 Superficie total losas: 836.85 m2 Losas macizas: 836.85 m2

Superficie en planta de vigas, zunchos y muros: 125.78 m2 Superficie lateral de vigas, zunchos y muros: 496.68 m2

Hormigón total en vigas: 100.01 m3

Vigas: 100.01 m3

Volumen total losas: 125.53 m3 Losas macizas: 125.53 m3

ELECTRONORTE Fecha: 01/05/23

* No se miden: Elementos de fundación.

Resumen total obra

Superficie total:1240.04 m2 Superficie total losas: 949.22 m2 Área de huecos: -0.10 m2 Losas macizas: 949.32 m2

Superficie en planta de vigas, zunchos y muros: 262.42 m2 Superficie lateral de vigas, zunchos y muros: 856.72 m2

Hormigón total en vigas: 157.33 m3

Vigas: 157.33 m3

Volumen total losas: 137.90 m3 Losas macizas: 137.90 m3

4. CUANTÍAS DE ARMADURA, POR DIÁMETRO

Tipo de acero: ADN 420

Notas:

Peso: Los valores indicados tienen incluidas las mermas.

Fundación

	Referencia	Longitud (m)	Peso (kg)
Zapatas aisladas	Ø10	176.40	120
	Ø12	2951.04	2882
	Ø16	152.63	265
	Ø20	543.44	1474
	Ø25	9.04	38
		Total + 10%	4779

NIVEL -0.15

	Referencia	Longitud (m)	Peso (kg)
	Ø6	3690.86	902
	Ø8	1238.25	538
	Ø10	35.35	24
Vigas de hormigón	Ø12	320.66	313
	Ø16	1817.08	3155
	Ø20	6.30	17
		Total + 10%	4949
Columnas de hormigón	Ø6	148.40	36
	Ø8	2562.64	1113
	Ø12	723.10	706
	Ø16	196.30	341
	Ø20	828.00	2246
	Ø25	12.00	51
		Total + 10%	4493

ELECTRONORTE Fecha: 01/05/23

NIVEL +3.05

	Referencia	Longitud (m)	Peso (kg)
Losso mosizos	Ø6	416.10	102
	Ø8	1290.55	561
Losas macizas	Ø10	36.00	24
		Total + 10%	687
	Ø6	618.96	151
	Ø8	459.89	200
Vigos de hormigén	Ø10	69.01	47
Vigas de hormigón	Ø12	10.31	10
	Ø16	7.70	13
		Total + 10%	421
	Ø6	3401.30	831
	Ø8	204.25	89
	Ø12	2861.38	2794
Columnas de hormigón	Ø16	351.24	610
	Ø20	50.64	137
	Ø25	17.60	75
		Total + 10%	4536
Escaleras	Ø8	416.14	181
	Ø12	244.31	239
		Total + 10%	420

NIVEL +6.15

	Referencia	Longitud (m)	Peso (kg)
Losas macizas	Ø6	511.06	125
	Ø8	2814.58	1222
	Ø10	8964.80	6077
	Ø12	6802.24	6643
	Ø16	1411.05	2450
	Ø20	24.36	66
		Total + 10%	16583
	Ø6	3275.47	800
	Ø8	2128.40	924
	Ø10	836.09	567
Vigas de barmigés	Ø12	1102.08	1076
Vigas de hormigón	Ø16	1101.15	1912
	Ø20	205.72	558
	Ø25	1064.71	4513
		Total + 10%	10350
Columnas de hormigón	Ø6	513.80	126
	Ø8	18.08	8
	Ø12	443.52	433
	Ø16	36.96	64
	Ø25	12.32	52
		Total + 10%	683
Escaleras	Ø8	358.75	156
	Ø10	47.25	32
		Total + 10%	188

ELECTRONORTE Fecha: 01/05/23

Total obra

	Referencia	Longitud (m)	Peso (kg)
Zapatas aisladas	Ø10	176.40	120
	Ø12	2951.04	2882
	Ø16	152.63	265
	Ø20	543.44	1474
	Ø25	9.04	38
		Total + 10%	4779
	Ø6	927.16	227
	Ø8	4105.13	1783
	Ø10	9000.80	6101
Losas macizas	Ø12	6802.24	6643
	Ø16	1411.05	2450
	Ø20	24.36	66
		Total + 10%	17270
	Ø6	7585.29	1853
	Ø8	3826.54	1662
	Ø10	940.45	638
Vigas de hormigén	Ø12	1433.05	1399
Vigas de hormigón	Ø16	2925.93	5080
	Ø20	212.02	575
	Ø25	1064.71	4513
		Total + 10%	15720
	Ø6	4063.50	993
	Ø8	2784.97	1210
	Ø12	4028.00	3933
Columnas de hormigón	Ø16	584.50	1015
	Ø20	878.64	2383
	Ø25	41.92	178
		Total + 10%	9712
	Ø8	774.89	337
Faceleres	Ø10	47.25	32
Escaleras	Ø12	244.31	239
		Total + 10%	608