Tabela de Vigotas Treli-adas

Dados			V«os / Apoios			Arma-«o Treli-ada			Armadura Adicional (1)							
Laje	Vigota	No	LapE cm	Liv cm	LapD cm	Ltot cm	Treli-a	Unit cm	Total cm	No bar	l mm		DE cm	DD cm	Unit cm	Total cm
L1	VT1A	13	10	446	10	466	TR16745	466	6058	2	5		5	5	476	12376
L2	VT2A	15	10	195	10	215	TR16745	215	3225							
L3	VT3A	10	10	498	10	518	TR16745	518	5175	1	10	10	10	10	538	5375
L4	VT4A	9	10	490	10	510	TR16745	510	4590	1	5	5	5	5	520	4680
L5	VT5A	10	10	498	10	518	TR16745	518	5175	2	5	5	5	5	528	10550
L6	VT6A	9	10	422	10	442	TR16745	442	3982	1	5	5	5	5	452	4072
L7	VT7A	12	10	205	10	225	TR16745	225	2700	1	5	5	5	5	235	2820
L8	VT8A	13	10	436	10	456	TR16745	456	5928	1	5	5	5	5	466	6058
L9	VT9A	13	10	430	10	450	TR16745	450	5850	2	5	5	5	5	460	11960
L10	VT10A	13	10	430	10	450	TR16745	450	5850	2	5	5	5	5	460	11960
	VT11A	14	10	195	10	215	TR16745	215	3010	1	5	5	5	5	225	3150
L11	VT11B	1	20	195	10	225	TR16745	225	225	1	5	5	5	5	235	235
L12	VT12A	15	10	530	10	550	TR16745	550	8250	1	8	8	8	8	566	8490
L13	VT13A	15	10	490	10	510	TR16745	510	7650	2	5	5	5	5	520	15600
	VT14A	14	10	500	10	520	TR16745	520	7280	2	5	5	5	5	530	14840
L14	VT14B	1	10	500	20	530	TR16745	530	530	2	5	5	5	5	540	1080
L15	VT15A	14	10	648	10	668	TR16745	668	9345	2	8	8	8	8	684	19138
L16	VT16A	14	10	648	10	668	TR16745	668	9345	2	8	8	8	8	684	19138
L17	VT17A	10	10	195	10	215	TR16745	215	2150	1	5	5	5	5	225	2250
L18	VT18A	10	10	195	10	215	TR16745	215	2150	1	5	5	5	5	225	2250
L19	VT19A	15	10	320	10	340	TR16745	340	5100	1	5	5	5	5	350	5250
L20	VT20A	11	10	320	10	340	TR16745	340	3740	1	5	5	5	5	350	3850
L21	VT21A	15	10	648	10	668	TR16745	668	10013	2	8	8	8	8	684	20505
L22	VT22A	14	10	195	10	215	TR16745	215	3010	1	5	5	5	5	225	3150
L24	VT24A	13	10	348	10	368	TR16745	368	4778	1	5	5	5	5	378	4908
L25	VT25A	13	10	463	10	483	TR16745	483	6273	2	5	5	5	5	493	12805
L26	VT26A	14	10	195	10	215	TR16745	215	3010	1	5	5	5	5	225	3150
L27	VT27A	15	10	648	10	668	TR16745	668	10013	2	8	8	8	8	684	20505

Rela-«o de blocos de enchimento

Legenda	Quant	Dimens«es Larg cm	Dimens«es Compr cm
EPS Bidirecional H12/40/49			
A	2107	40	49
B	3	32	49
C	5	30	49
D	7	26	49
E	28	25	49
F	5	21	49
G	6	14	49
H	14	11	49
I	14	10	49
J	13	40	40
K	1	11	40
L	15	40	36
M	1	25	36
N	10	40	34
O	1	10	34
P	13	40	31
Q	14	40	31
R	13	40	30
S	1	11	30
T	26	40	30
U	1	30	30
V	1	21	30
W	25	40	26
X	1	25	26
Y	46	40	21
Z	1	32	21
BA	1	25	21
BB	1	14	21
BC	1	10	21
BD	32	40	21
BE	1	14	21
BF	1	10	21
BG	9	40	17
BH	1	26	17
EPS Bidirecional H16/40/49			
BI	270	40	49
BJ	14	11	49
BK	11	40	34
BL	26	40	24
BM	2	11	24

Estimativa de consumo de blocos

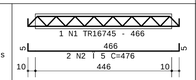
Fabricante	Inteiros	Cortados	Total
EPS Bidirecional H12/40/49	2107	246	2353
EPS Bidirecional H16/40/49	270	32	302

AC0	POS	BIT mm	QUANT	COMPRIMENTO UNIT cm	COMPRIMENTO TOTAL cm
VT1A (X13)					
TR16745 60A	1		13	466	6058
	2	5	26	476	12376
VT2A (X15)					
TR16745	1		15	215	3225
VT3A (X10)					
TR16745 50A	1		10	518	5180
	2	10	10	538	5380
VT4A (X9)					
TR16745 60A	1		9	510	4590
	2	5	9	520	4680
VT5A (X10)					
TR16745 60A	1		10	518	5180
	2	5	20	528	10560
VT6A (X9)					
TR16745 60A	1		9	442	3978
	2	5	9	452	4068
VT7A (X12)					
TR16745 60A	1		12	225	2700
	2	5	12	235	2820
VT8A (X13)					
TR16745 60A	1		13	456	5928
	2	5	13	466	6058
VT9A (X13)					
TR16745 60A	1		13	450	5850
	2	5	26	460	11960
VT10A (X13)					
TR16745 60A	1		13	450	5850
	2	5	26	460	11960
VT11A (X14)					
TR16745 60A	1		14	215	3010
	2	5	14	225	3150
VT11B					
TR16745 60A	1		1	225	225
	2	5	1	235	235
VT12A (X15)					
TR16745 50A	1		15	550	8250
	2	8	15	566	8490
VT13A (X15)					
TR16745 60A	1		15	510	7650
	2	5	30	520	15600
VT14A (X14)					
TR16745 60A	1		14	520	7280
	2	5	28	530	14840
VT14B					
TR16745 60A	1		1	530	530
	2	5	2	540	1080
VT15A (X14)					
TR16745 50A	1		14	668	9352
	2	8	28	684	19152
VT16A (X14)					
TR16745 50A	1		14	668	9352
	2	8	28	684	19152
VT17A (X10)					
TR16745 60A	1		10	215	2150
	2	5	10	225	2250
VT18A (X10)					
TR16745 60A	1		10	215	2150
	2	5	10	225	2250
VT19A (X15)					
TR16745 60A	1		15	340	5100
	2	5	15	350	5250
VT20A (X11)					
TR16745 60A	1		11	340	3740
	2	5	11	350	3850
VT21A (X15)					
TR16745 50A	1		15	668	10020
	2	8	30	684	20520
VT22A (X14)					
TR16745 60A	1		14	215	3010
	2	5	14	225	3150
VT23A (X13)					
TR16745 60A	1		13	515	6695
	2	5	26	525	13650
VT24A (X13)					
TR16745 60A	1		13	368	4784
	2	5	13	378	4914
VT25A (X13)					
TR16745 60A	1		13	483	6279
	2	5	26	493	12818
VT26A (X14)					
TR16745 60A	1		14	215	3010
	2	5	14	225	3150
VT27A (X15)					
TR16745 50A	1		15	668	10020
	2	8	30	684	20520

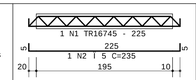
RESUMO DE AC0			
AC0	BIT mm	COMPR m	PESO kgf
TR16745 60A	5	1511	1560
	8	1507	232
50A	8	878	347
50A	10	54	33
Peso Total	TR16745 =		1560 kgf
Peso Total	60A =		232 kgf
Peso Total	50A =		380 kgf

Projeto de fabrica-«o de vigotas treli-adas
Sem escala

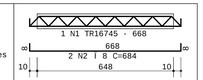
VT1A
L1
13 Unidades



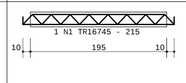
VT11B
L11
1 Unidades



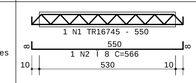
VT21A
L21
15 Unidades



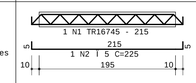
VT2A
L2
15 Unidades



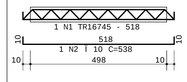
VT12A
L12
15 Unidades



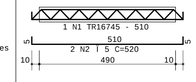
VT22A
L22
14 Unidades



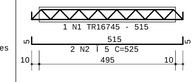
VT3A
L3
10 Unidades



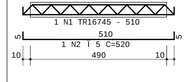
VT13A
L13
15 Unidades



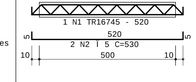
VT23A
L23
13 Unidades



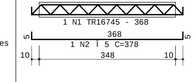
VT4A
L4
9 Unidades



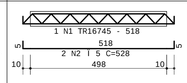
VT14A
L14
14 Unidades



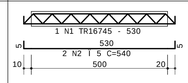
VT24A
L24
13 Unidades



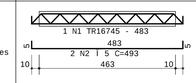
VT5A
L5
10 Unidades



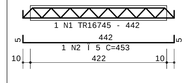
VT14B
L14
1 Unidades



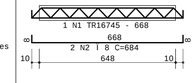
VT25A
L25
13 Unidades



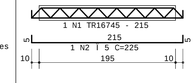
VT6A
L6
9 Unidades



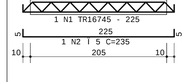
VT15A
L15
14 Unidades



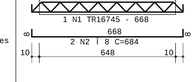
VT26A
L26
14 Unidades



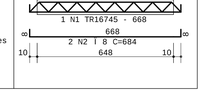
VT7A
L7
12 Unidades



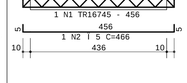
VT16A
L16
14 Unidades



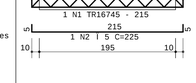
VT27A
L27
15 Unidades



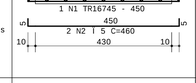
VT8A
L8
13 Unidades



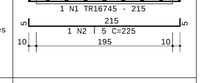
VT17A
L17
10 Unidades



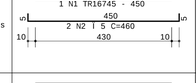
VT9A
L9
13 Unidades



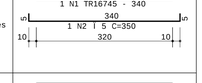
VT18A
L18
10 Unidades



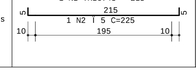
VT10A
L10
13 Unidades



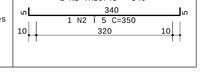
VT19A
L19
15 Unidades



VT11A
L11
14 Unidades



VT20A
L20
11 Unidades



OBSERVA¢íES:

SIGLAS:

C.G = CENTRO DE GRAVIDADE
C.A.F = COTA DE ASSENTAMENTO DA FUNDA¢IO
C.F = CONTRA - FLECHA

SIGLA DOS ELEMENTOS ESTRUTURAIS:

B=BLOCO P=PILAR V=VIGA
C=CINTA R=RADIER VE=VIGA ESCADA
E=ESTACA S=SAPATA VEQ=VIGA DE EQUIL¢BRIO
L=LAJE T=TUBULIO VT=VIGA DE TRANSI¢IO

LEGENDA DE PILARES:

= PROSSEGUE = MORRE = REDUZ = NASCE

NOTAS :

1-Cotas e Dimens«es em cm.
2-Concreto Estrutural : Fck = 30MPa
Concreto Armado : Cimento Portland CP III
Concreto Protendido : Cimento Portland CP III
M-dulo de Elasticidade : Ecs = 26GPa
Rela-«o ßgua/aglomerante em massa :<=0.60
3-A-os :
CA-50 - Fyk = 500 MPa
CA-60 - Fyk = 600 MPa
4-Concreto de regulariza-«o:FCK = 10MPa
M-dulo de Elasticidade : Ecs = 15GPa
Espessura : 5.0cm
5-As cotas prevalecem sobre o desenho
6-Classe de Agressividade Ambiental = II
7-Fator do Terreno:S1 = 1.00
8-Categoria de Rugosidade:S2 = II
9-Classe da Edifica-«o:S2 = B
10-Fator Estat²stico:S3 = 1.00
11-Velocidade B§sica do Vento:V = 30m/s
12-Cobrimento das Armaduras :
Lajes em geral:2.5cm Sapatas:3.0cm
Lajes Protendidas:3.0cm Vigas:3.0cm
Pilares:3.0cm Tubul«o:3.0cm
Pilaretes:4.5cm Radier:3.0cm
Blocos:3.0cm

13 - Norma de f³rmas e escoramentos :NBR 15696/2009
F³rmas e escoramentos para estruturas de concreto
Projeto,dimensionamneto e procedimentos executivos
14 - Norma de Cargas : NBR 6120/1980
Cargas para C§lculo de Estruturas em Edifica-«es
15 - Norma de C§lculo : NBR 6118/2014
Projeto de Estruturas de Concreto-Procedimento
16 - Norma de Funda-«es : NBR 6122/2010
Projeto e execu-«o de funda-«es
17 - Norma de inc¯ndio em concreto : NBR 15200/2012
Projeto de estruturas de concreto em situa-«o de inc¯ndio
18 - Norma de execu-«o de concreto : NBR 14931/2004
Execu-«o de estruturas de concreto - Procedimento
19 - As normas citadas acima devem ser seguidas
tanto na elabora-«o dos projetos quanto na execu-«o das obras

PROJETOS DE REFERåNCIA :

PROJETO ARQUITETÔNICO, PLANTAS BAIXAS,CORTES E FACHADAS

REVISÌO

DATA	REVISAO No.	DESCRICAO
09/09/2022	00	EMISSIO INICIAL

ART°08202210135161

PROJETO ESTRUTURAL

ML
ENGENHARIA & PROJETOS

PROPRIETÓRIO :

MUNICIPIO DE VILA PAVIO CNPJ:36.350.346/0001-67

AUTOR DO PROJETO:
CARLOS RAPHAEL MONTEIRO DE LEMOS:04665479780
CARLOS RAPHAEL MONTEIRO DE LEMOS - CREA 11840/D - ES

Assinado de forma digital por CARLOS RAPHAEL MONTEIRO DE LEMOS:04665479780
Dados: 2023.03.21 17:06:00 -03'00'

INFORMA¢íES DA OBRA

DESCRI¢IO DA PLANTA:
PROJETO DE FABRICA¢IO DAS TRELI¢AS DO PAVIMENTO COBERTURA

TÍTULO DA OBRA :
CONSTRU¢IO DA CMEA ARTUR PAGUNG

ENDERE¢O DA OBRA :
RUA PRESIDENTE MEDICE, S/NÙ - DISTRITO DE PRA¢A RICA

DESENHOS: EQUIPE ML
DATA: SETEMBRO/2022
ESCALA: 1:50
NÀDO ARQUIVO CAD: 0928-013-EST-R00.DWG
NÀDO PROJETO: EST0928
NÀDA PRANCHA: 13/20

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