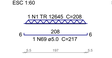
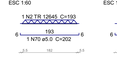
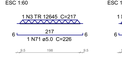
VTB1a (6 unidades)
(LB11)
ESC 1:60



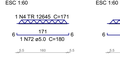
VTB1b (1 unidades)
(LB11)
ESC 1:60



VTB2a (7 unidades)
(LB21)
ESC 1:60



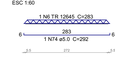
VTB3a (9 unidades)
(LB31)
ESC 1:60



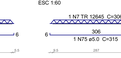
VTB4a (8 unidades)
(LB41)
ESC 1:60



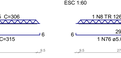
VTB4b (1 unidades)
(LB41)
ESC 1:60



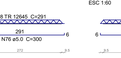
VTB5a (8 unidades)
(LB51)
ESC 1:60



VTB5b (1 unidades)
(LB51)
ESC 1:60



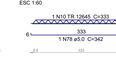
VTB6a (2 unidades)
(LB61)
ESC 1:60



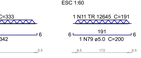
VTB6b (7 unidades)
(LB61)
ESC 1:60



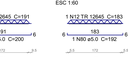
VTB7a (2 unidades)
(LB71)
ESC 1:60



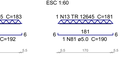
VTB7b (5 unidades)
(LB71)
ESC 1:60



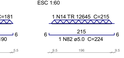
VTB8a (5 unidades)
(LB81)
ESC 1:60



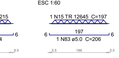
VTB9a (9 unidades)
(LB91)
ESC 1:60



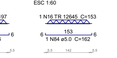
VTB10a (5 unidades)
(LB101)
ESC 1:60



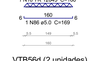
VTB11a (3 unidades)
(LB111)
ESC 1:60



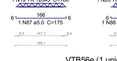
VTB19a (5 unidades)
(LB19)
ESC 1:60



VTB20a (5 unidades)
(LB201)
ESC 1:60



VTB21a (5 unidades)
(LB211)
ESC 1:60



VTB23a (5 unidades)
(LB231)
ESC 1:60



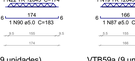
VTB24a (5 unidades)
(LB241)
ESC 1:60



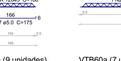
VTB25a (5 unidades)
(LB251)
ESC 1:60



VTB51a (3 unidades)
(LB511)
ESC 1:60



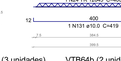
VTB51b (6 unidades)
(LB511)
ESC 1:60



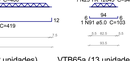
VTB52a (2 unidades)
(LB521)
ESC 1:60



VTB52b (8 unidades)
(LB521)
ESC 1:60



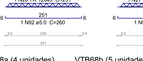
VTB53a (3 unidades)
(LB531)
ESC 1:60



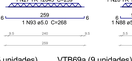
VTB54a (7 unidades)
(LB541)
ESC 1:60



VTB54b (2 unidades)
(LB541)
ESC 1:60



VTB55a (9 unidades)
(LB551)
ESC 1:60



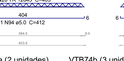
VTB56a (1 unidades)
(LB561)
ESC 1:60



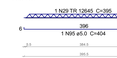
VTB56b (2 unidades)
(LB561)
ESC 1:60



VTB56c (6 unidades)
(LB561)
ESC 1:60



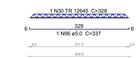
VTB56d (2 unidades)
(LB561)
ESC 1:60



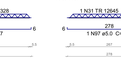
VTB56e (1 unidades)
(LB561)
ESC 1:60



VTB57a (9 unidades)
(LB571)
ESC 1:60



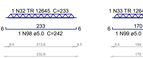
VTB58a (9 unidades)
(LB581)
ESC 1:60



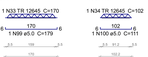
VTB59a (9 unidades)
(LB591)
ESC 1:60



VTB60a (7 unidades)
(LB601)
ESC 1:60



VTB64a (3 unidades)
(LB641)
ESC 1:60



VTB64b (2 unidades)
(LB641)
ESC 1:60

VTB65a (13 unidades)
(LB651)
ESC 1:60

VTB68a (4 unidades)
(LB681)
ESC 1:60

VTB68b (5 unidades)
(LB681)
ESC 1:60

VTB69a (9 unidades)
(LB691)
ESC 1:60

VTB69b (1 unidades)
(LB691)
ESC 1:60

VTB74a (2 unidades)
(LB741)
ESC 1:60

VTB74b (3 unidades)
(LB741)
ESC 1:60

VTB75a (13 unidades)
(LB751)
ESC 1:60

VTB76a (8 unidades)
(LB761)
ESC 1:60

VTB76b (1 unidades)
(LB761)
ESC 1:60

VTB77a (9 unidades)
(LB771)
ESC 1:60

VTB78a (1 unidades)
(LB781)
ESC 1:60

VTB78b (3 unidades)
(LB781)
ESC 1:60

VTB78c (9 unidades)
(LB781)
ESC 1:60

VTB79a (9 unidades)
(LB791)
ESC 1:60

VTB80a (3 unidades)
(LB801)
ESC 1:60

VTB80b (10 unidades)
(LB801)
ESC 1:60

VTB81a (5 unidades)
(LB811)
ESC 1:60

VTB82a (2 unidades)
(LB821)
ESC 1:60

VTB82b (5 unidades)
(LB821)
ESC 1:60

VTB82c (15 unidades)
(LB821)
ESC 1:60

VTB82d (1 unidades)
(LB821)
ESC 1:60

VTB83a (5 unidades)
(LB831)
ESC 1:60

VTB84a (1 unidades)
(LB841)
ESC 1:60

VTB84b (7 unidades)
(LB841)
ESC 1:60

VTB101a (6 unidades)
(LB101)
ESC 1:60

VTB108a (5 unidades)
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ESC 1:60

VTB109a (3 unidades)
(LB109)
ESC 1:60

VTB128a (9 unidades)
(LB128)
ESC 1:60

VTB129a (9 unidades)
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ESC 1:60

VTB130a (13 unidades)
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ESC 1:60

VTB131a (4 unidades)
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ESC 1:60

VTB131b (5 unidades)
(LB131)
ESC 1:60

VTB132a (13 unidades)
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ESC 1:60

VTB133a (7 unidades)
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ESC 1:60

VTB134a (10 unidades)
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ESC 1:60

VTB135a (4 unidades)
(LB135)
ESC 1:60

VTB135b (9 unidades)
(LB135)
ESC 1:60

VTB136a (5 unidades)
(LB136)
ESC 1:60

VTB136b (5 unidades)
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VTB137a (2 unidades)
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VTB137b (9 unidades)
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ESC 1:60

VTB137c (1 unidades)
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VTB138a (5 unidades)
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VTB139a (5 unidades)
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VTB140a (13 unidades)
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VTB141a (4 unidades)
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VTB141b (8 unidades)
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VTB142a (10 unidades)
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VTB143a (12 unidades)
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VTB143b (1 unidades)
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VTB144a (6 unidades)
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ESC 1:60

VTB144b (4 unidades)
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VTB145a (4 unidades)
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VTB145b (1 unidades)
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VTB146a (5 unidades)
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ESC 1:60

VTB147a (5 unidades)
(LB147)
ESC 1:60

VTB148a (5 unidades)
(LB148)
ESC 1:60

VTB149a (5 unidades)
(LB149)
ESC 1:60

VTB150a (9 unidades)
(LB150)
ESC 1:60

VTB151a (7 unidades)
(LB151)
ESC 1:60

VTB152a (7 unidades)
(LB152)
ESC 1:60

Relação do aço

6xVTB1a	VTB1b	7xVTB2a	
6xVTB3a	6xVTB4a	VTB4b	
8xVTB5a	VTB5b	2xVTB6a	
7xVTB6b	2xVTB7a	5xVTB7b	
5xVTB8a	5xVTB9a	6xVTB10a	
5xVTB11a	5xVTB19a	6xVTB20a	
5xVTB21a	5xVTB23a	5xVTB24a	
5xVTB25a	3xVTB51a	6xVTB51b	
2xVTB52a	8xVTB52b	3xVTB53a	
7xVTB54a	2xVTB54b	9xVTB55a	
2xVTB56a	6xVTB56b	6xVTB56c	
2xVTB56d	VTB56e	9xVTB57a	
9xVTB58a	9xVTB59a	7xVTB60a	
3xVTB64a	2xVTB64b	13xVTB65a	
4xVTB68a	5xVTB68b	9xVTB69a	
1xVTB69b	2xVTB74a	3xVTB74b	
13xVTB75a	9xVTB76a	1xVTB76b	
9xVTB78a	9xVTB78b	9xVTB78c	
9xVTB79a	9xVTB80a	10xVTB80b	
5xVTB81a	2xVTB82a	5xVTB82b	
15xVTB82c	1xVTB82d	5xVTB83a	
1xVTB84a	6xVTB84b	9xVTB89a	
9xVTB90a	9xVTB91a	12xVTB91b	
9xVTB92a	13xVTB93a	5xVTB94a	
9xVTB95a	1xVTB96a	5xVTB96b	
9xVTB97a	VTB98a	4xVTB98b	
2xVTB99a	1xVTB99b	5xVTB100a	
2xVTB101a	7xVTB101b	5xVTB108a	
5xVTB109a	5xVTB128a	5xVTB129a	
13xVTB130a	4xVTB131a	5xVTB131b	
13xVTB132a	7xVTB133a	10xVTB134a	
4xVTB135a	9xVTB135b	5xVTB136a	
5xVTB136b	2xVTB137a	9xVTB137b	
VTB137c	5xVTB138a	5xVTB139a	
13xVTB140a	4xVTB141a	8xVTB141b	
10xVTB142a	12xVTB143a	1xVTB143b	
6xVTB144a	4xVTB144b	4xVTB145a	
1xVTB145b	5xVTB146a	5xVTB147a	
5xVTB148a	5xVTB149a	9xVTB150a	
7xVTB151a	7xVTB152a		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (m)	C.TOTAL (m)
CA60	1	TR 12645	75	208	15600
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	3	TR 12645	63	217	13671
	4	TR 12645	9	171	1539
	5	TR 12645	8	298	2384
	6	TR 12645	1	283	283
	7	TR 12645	8	306	2448
	8	TR 12645	1	291	291
	9	TR 12645	2	341	682
	10	TR 12645	7	333	2331
	11	TR 12645	2	191	382
	12	TR 12645	5	183	915
	13	TR 12645	5	181	905
	14	TR 12645	44	215	9460
	15	TR 12645	5	197	985
	16	TR 12645	3	153	459
	17	TR 12645	6	176	1056
	18	TR 12645	5	160	800
	19	TR 12645	11	166	1826
	20	TR 12645	24	92	2208
	21	TR 12645	8	84	672
	22	TR 12645	3	174	522
	23	TR 12645	2	396	792
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	25	TR 12645	3	94	282
	26	TR 12645	7	251	1757
	27	TR 12645	2	259	518
	28	TR 12645	9	403	3627
	29	TR 12645	3	395	1185
	30	TR 12645	1	328	2952
	31	TR 12645	9	278	2502
	32	TR 12645	9	233	2097
	33	TR 12645	7	170	1190
	34	TR 12645	11	102	1122
	35	TR 12645	8	110	880
	36	TR 12645	10	419	4190
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	60	TR 12645	12	131	1572
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	62	TR 12645	5	180	900
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	64	TR 16745	2	420	840
	65	TR 16745	10	430	4300
	66	TR 16745	10	529	5290
	67	TR 16745	6	397	2382
	68	TR 16745	4	401	1604
	69	5.0	75	217	16275
	70	5.0	3	202	606
	71	5.0	63	226	14238
	72	5.0	9	180	1620
	73	5.0	8	307	2456
	74	5.0	1	292	292
	75	5.0	8	315	2520
	76	5.0	1	300	300
	77	5.0	2	350	700
	78	5.0	7	342	2394
	79	5.0	2	200	400
	80	5.0