



TEREX | COMEDIL

CTT 181/A

Counterweights

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Chapter 3

B

1

COUNTERWEIGHTS1.1 **PREPARATION**

The preparation of the ballast blocks must be carried out with maximum precision. They can be installed once they have been cured and the exact weight has been established.



The weight of the counterweights shall be within a tolerance of $\pm 2\%$.

The manufacturing material shall have the following features:

- concrete grade Rck 300
- Fe B 44 K steel reinforcement
- 40°x45° max. external corners

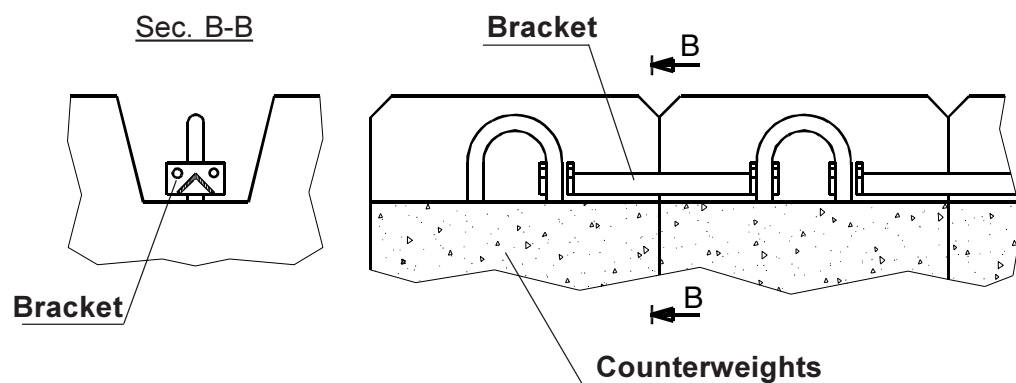
1.2 **TYPE AND QUANTITY**

Position on the counterjib the exact ballast quantity shown in the following tables, which varies according to the jib length.

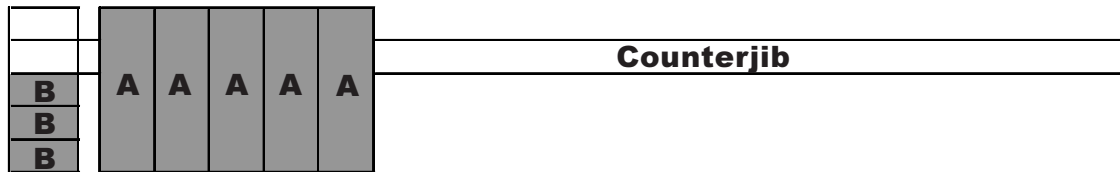
BLOCK TYPE	BLOCK WEIGHT	
	t	lbs
"A"	3.5	7718
"B"	0.8	1764



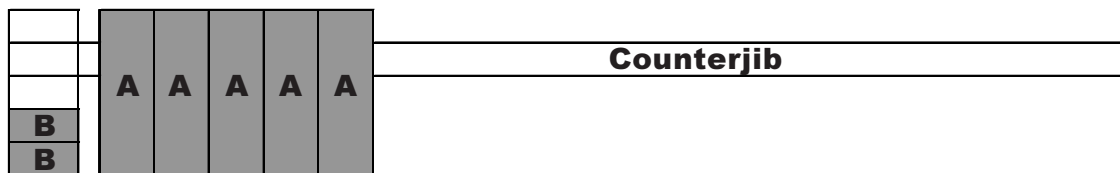
If the chosen configuration does not need any counterweights "A" on the side of the mobile ballast basket, Comedil supplies a special bracket to stop the "A" blocks installed in the proper position (one every two blocks) (picture 1.2.1).



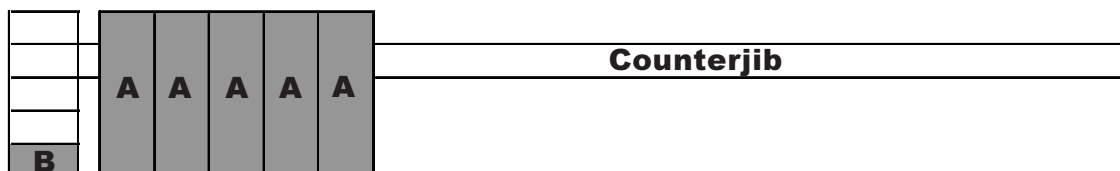
Picture 1.2.1

**65 m (213 ft) and 60 m (197 ft) jib**

	Quantity	t	lbs
Counterweight "A"	5	17.5	38590
Counterweight "B"	3	2.4	5292
Total weight		19.9	43882

55 m (180 ft) jib

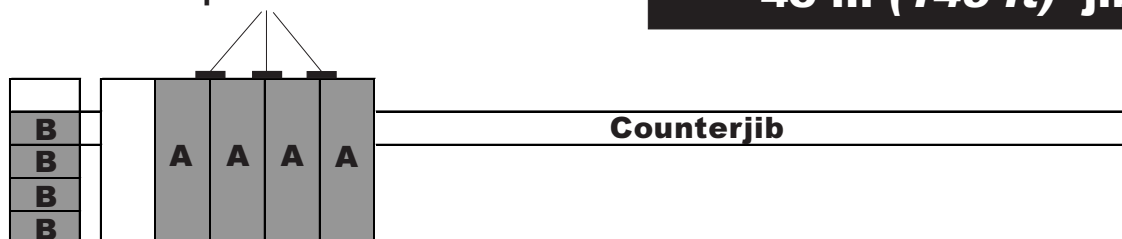
	Quantity	t	lbs
Counterweight "A"	5	17.5	38590
Counterweight "B"	2	1.6	3528
Total weight		19.1	42118

50 m (164 ft) jib

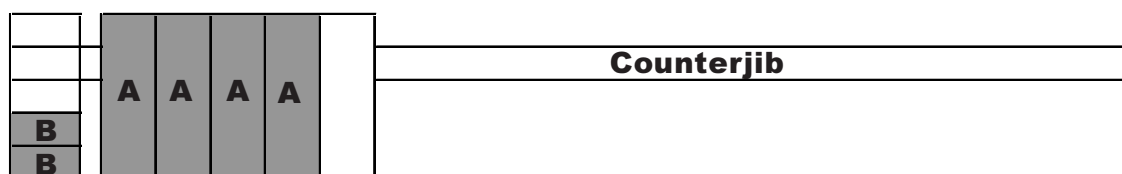
	Quantity	t	lbs
Counterweight "A"	5	17.5	38590
Counterweight "B"	1	0.8	1764
Total weight		18.3	40354



no. 3 special brackets

45 m (148 ft) jib

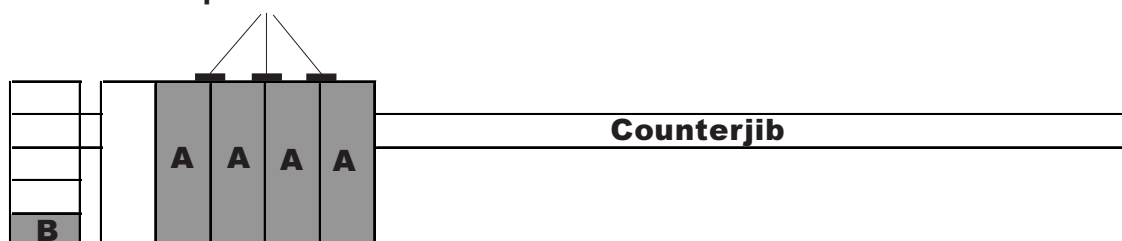
	Quantity	t	lbs
Counterweight "A"	4	14	30872
Counterweight "B"	4	3.2	7056
Total weight		17.2	37928

40 m (131 ft) jib

	Quantity	t	lbs
Counterweight "A"	4	14	30872
Counterweight "B"	2	1.6	3528
Total weight		15.6	34400

35 m (115 ft) jib

no. 3 special brackets



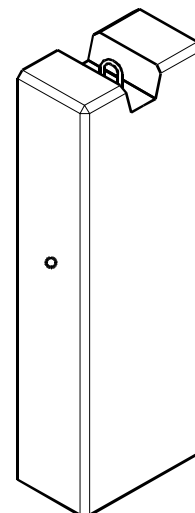
	Quantity	t	lbs
Counterweight "A"	4	14	30872
Counterweight "B"	1	0.8	1764
Total weight		14.8	32636

1.3 WORKING DRAWINGS

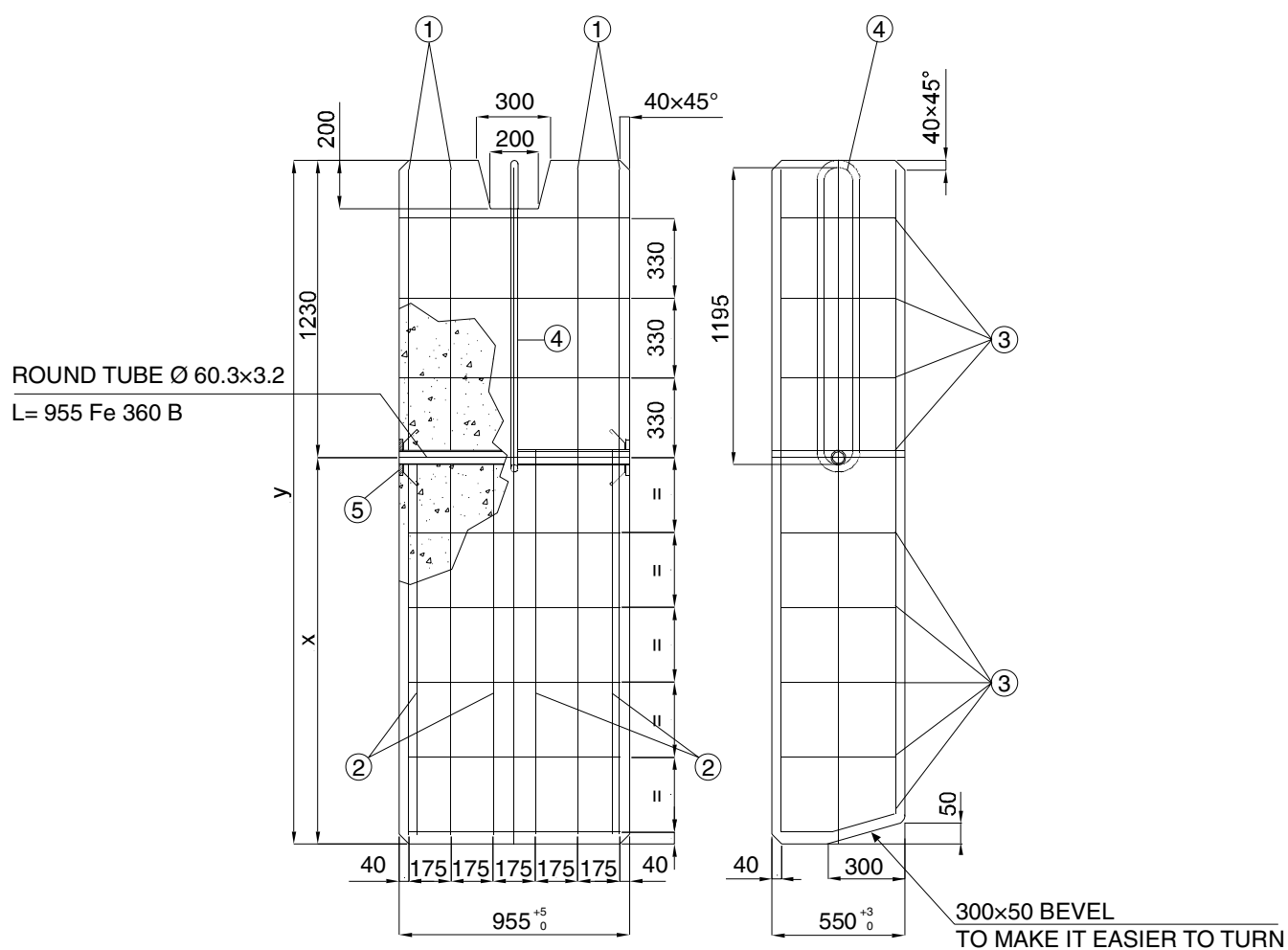
1.3.1 Counterweight "A" (3.5 t / 7718 lbs) - Code 390107011



R.C. Total Specific Weight		X		Y	
[kg/m³]	[lbs/ft³]	[mm]	[in.]	[mm]	[in.]
2300	144	1720	68	2950	116
2400	150	1600	63	2830	111
2500	156	1490	59	2720	107



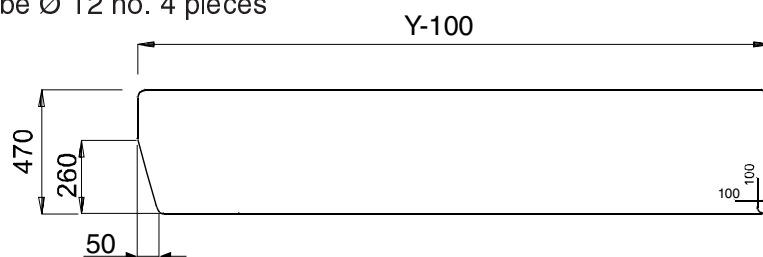
SEC. A-A



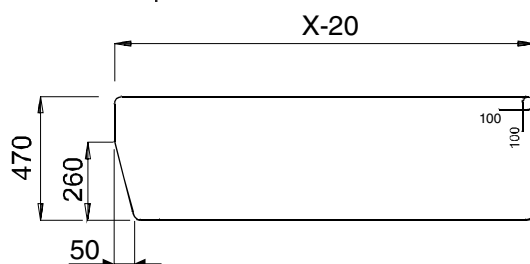
Dimensions are expressed in millimeters [1 mm = 0.03937 in.]

Reinforcing rods for counterweight "A"

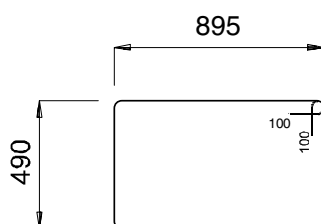
- ① Round tube Ø 12 no. 4 pieces



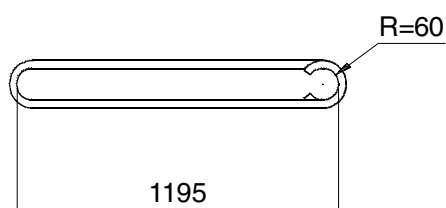
- ② Round tube Ø 12 no. 4 pieces



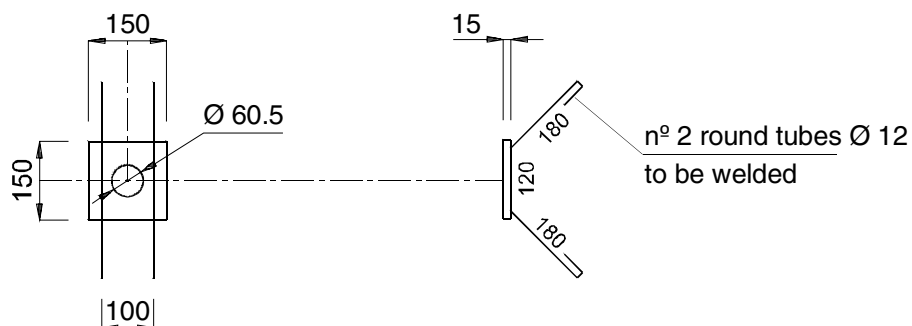
- ③ Round tube Ø 8 L=3000 no. 9 pieces



- ④ Round tube Ø 30 L=2900 no.1 piece - Fe 360 B hot bending



- ⑤ no. 2 pieces

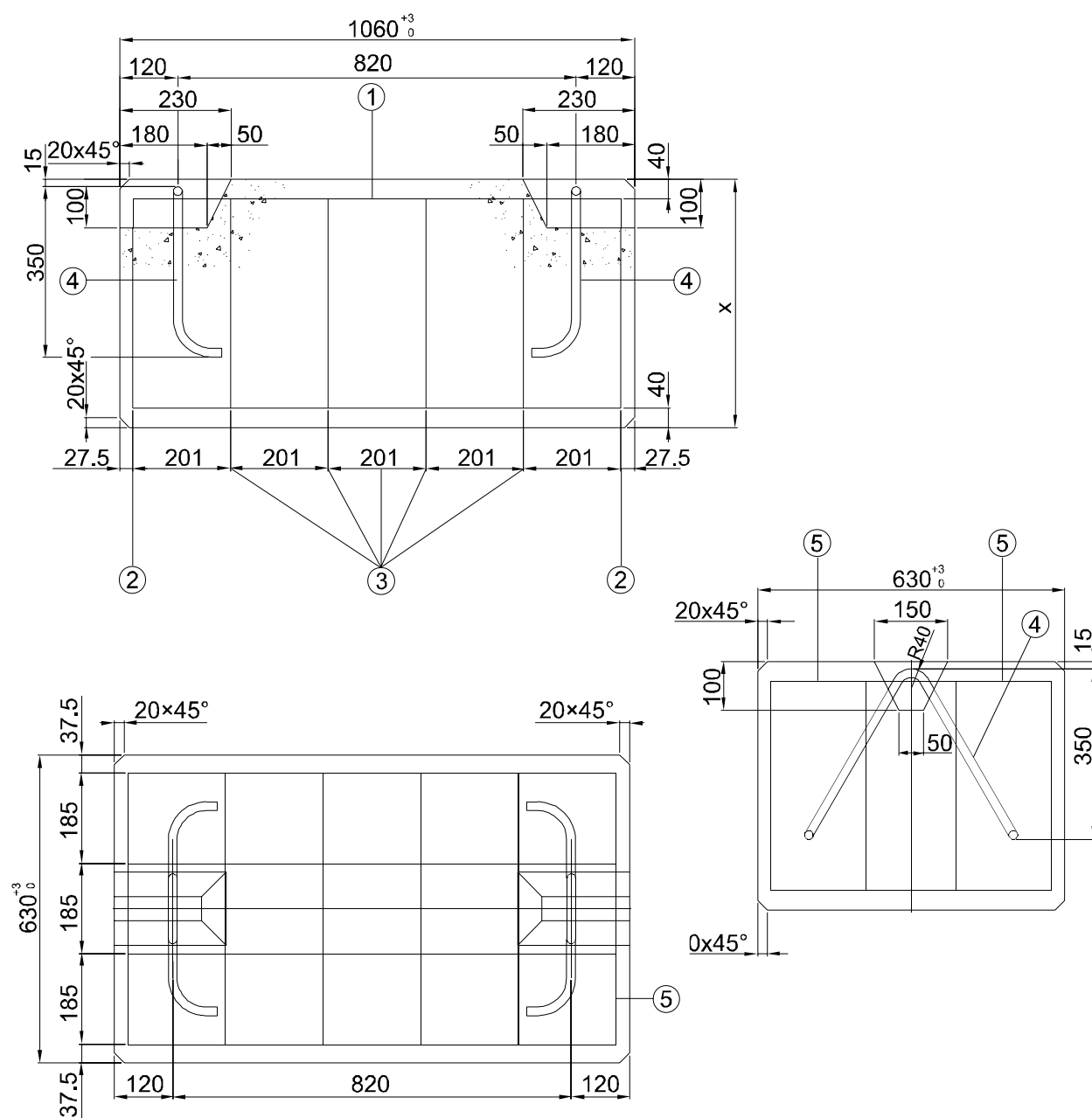
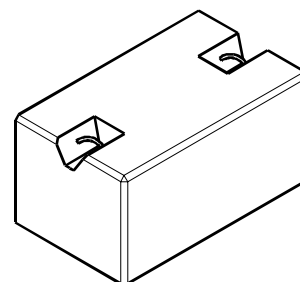


Dimensions are expressed in millimeters [1 mm = 0.03937 in.]

1.3.2 Counterweight "B" (0.8 t / 1750 lbs) - Code 390107012

B

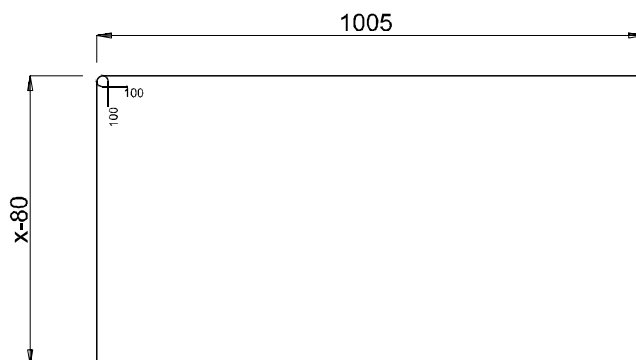
R.C. Total Specific Weight		X	
[kg/m ³]	[lbs/ft ³]	[mm]	[in.]
2300	144	530	21
2400	150	510	20
2500	156	490	19



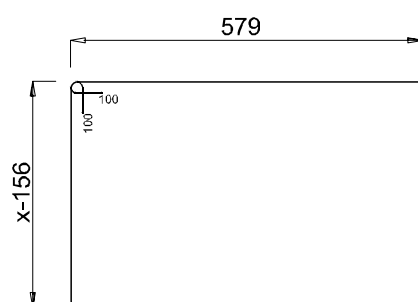
Dimensions are expressed in millimeters [1 mm = 0.03937 in.]

Reinforcing rods for counterweight "B"**B**

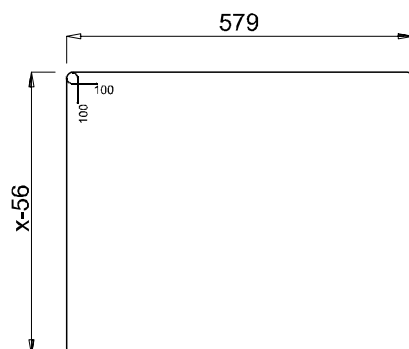
- ① Round tube Ø 12 no. 4 pieces



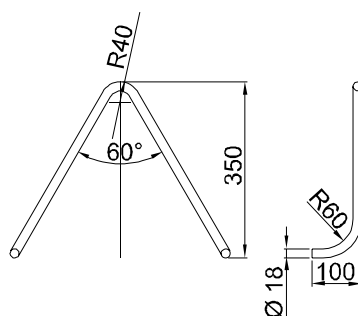
- ② Round tube Ø 12 no. 4 pieces



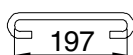
- ③ Round tube Ø 12 no. 4 pieces



- ④ Round tube Ø 180 L=940 no. 2 pieces



- ⑤ Round tube Ø 12 L=260 no. 4 pieces



Dimensions are expressed in millimeters [1 mm = 0.03937 in.]