

5062927/2026/O/o DY.CEE/DI/CONV

ALL DIMENSIONS ARE IN mm

F

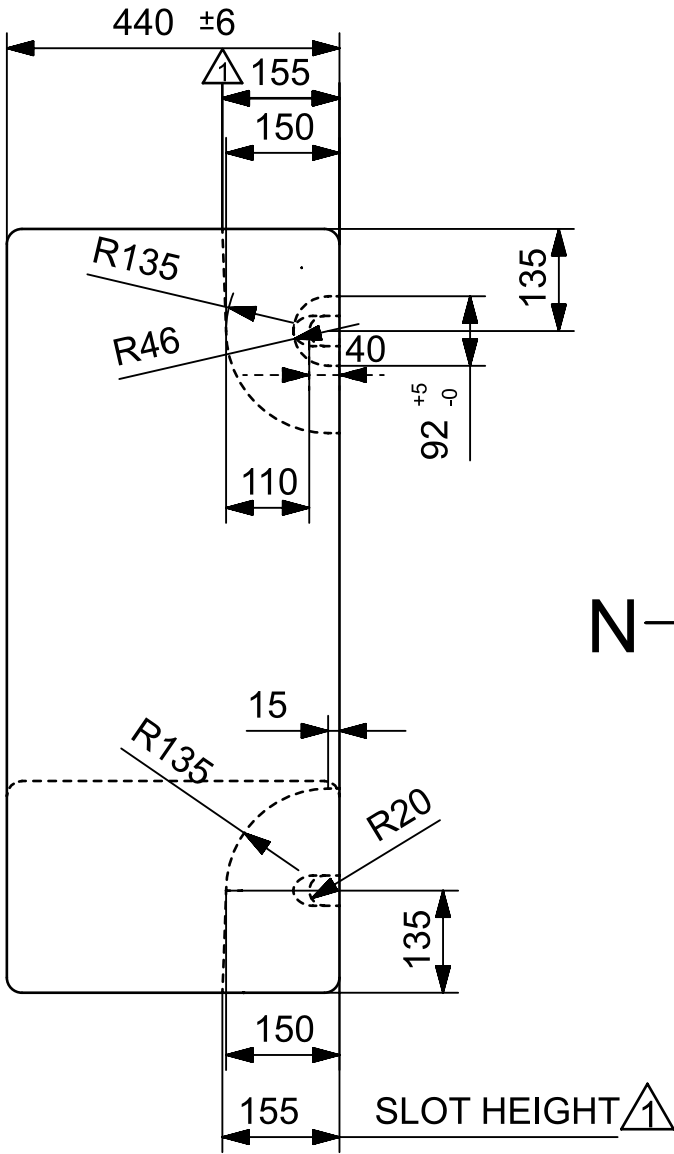
E

D

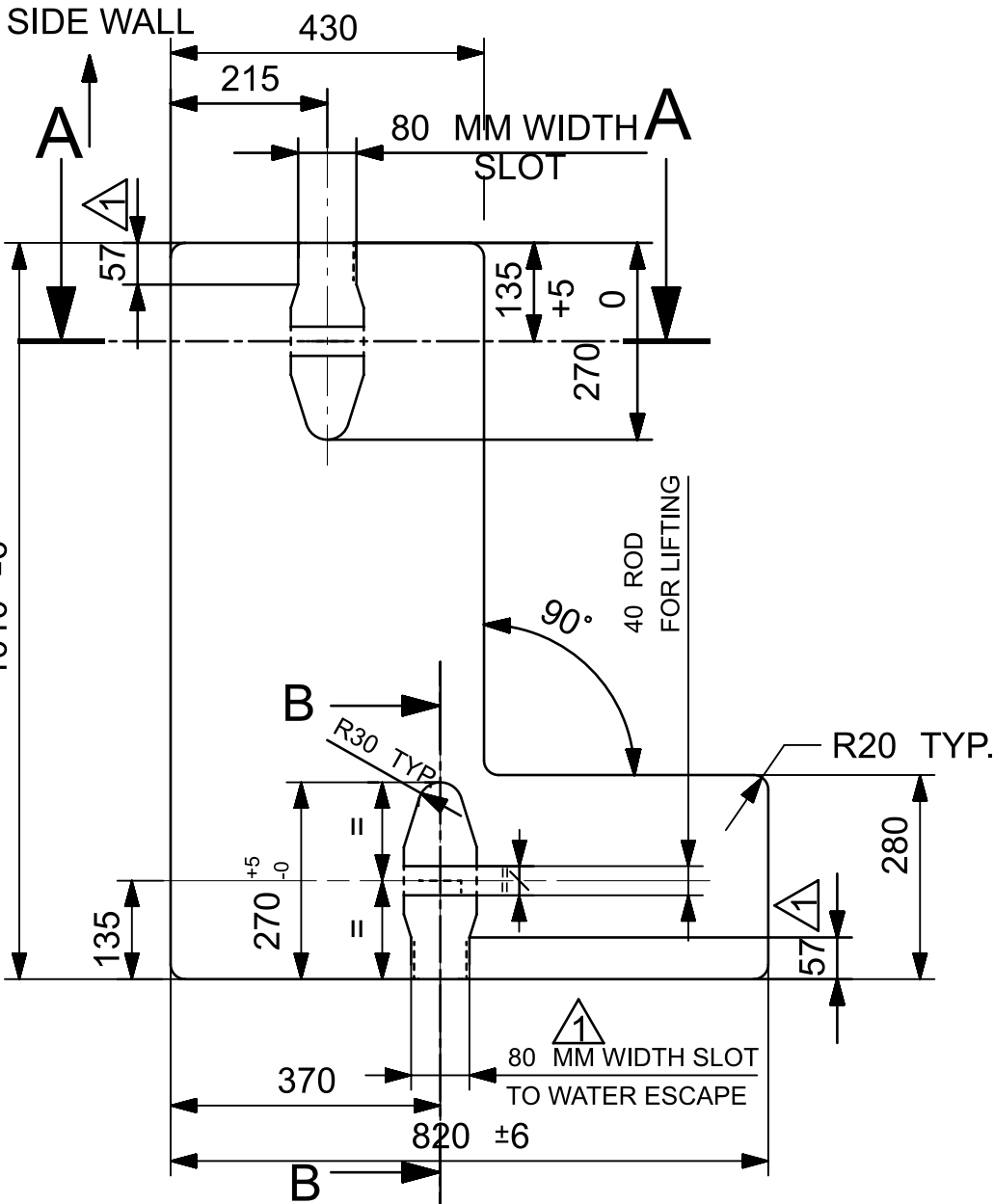
C

B

A

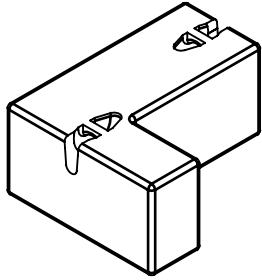


VIEW FROM N



TOP VIEW

VIEW-C


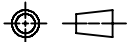


NOTE:-

- LIFTING ROD SHOULD BE INTEGRALLY CAST.
- FOR SECTIONAL & DETAIL VIEWS FOLLOW DRG. NO. 1209-02.326-336
- ALL EDGES & SURFACES SHOULD BE FLAT & SMOOTH.
- FOR PERMISSIBLE DEVIATIONS OF UNTOLERANCED DIMENSIONS FOR STEEL CASTING TO BE FOLLOWED TABLE 3 OF IS 4897:1994
- VERTICALITY, PARALLELITY, FLATNESS TO BE MAINTAINED WITHIN LIMIT.
- RIGHT ANGLE VERTICALITY OF SURFACE TO SURFACE TO BE MAINTAINED WITHIN LIMIT.
- USED FOR LOCO-WAG-9 HC
- C & D NO-T302/392
- QTY./LOCO-01
- NEXT LEVEL ASSEMBLY DRG. NO.
- SURFACE COATING TO BE DONE WITH STONE GREY COLOUR AS PER RAL 7030 AFTER TWO COATS OF PRIMER OF MIN.50 MICRON EACH.

धातु-वेल्डन चिन्ह भा. मा. : 813 / अ. मा. सं. :2553 WELDING SYMBOLS TO IS:813 / ISO:2553	अनिर्दिष्ट सद्य – सीमा भा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												TOL. CLS.
	पदांक GRADE NO.	स1 N1	स2 N2	स3 N3	स4 N4	स5 N5	स6 N6	स7 N7	स8 N8	स9 N9	स10 N10	स11 N11	स12 N12
सतह – रुक्षता का मान भा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302	Rz	0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250
	Ra μ m	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
	चिन्ह SYMBOL												

परिवर्तन संख्या	प्राधिकार	वर्णन	DESCRIPTION	दिनांकित आधार	DATE	INITIAL
ALT. NO.	AUTHY					

अधिकृत DGN		<div></div> <div>चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div>			
जोचा व.अ. CHD SSE	Abu Naseer <small>Digitally signed by Abu Naseer DN: cn=Abu Naseer, o=CLW, ou=CLW, email=abunaseer@clw.co.in</small>				
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE		पदार्थ MATL	CAST STEEL	प्रति भार कि. ग्रा. WT. EACH IN KG	1850 KG ± 30
अनुमोदित उ.यु.वि.अ. APPROVED DYCEE	AMIT AGGARWAL <small>Digitally signed by AMIT AGGARWAL DN: cn=AMIT AGGARWAL, o=CLW, ou=CLW, email=amitaggarwal@clw.co.in</small>	विशिष्ट SPECN	IS: 1030 GR. 280-520 W		
दिनांक DATE	26-02-2025	वर्णन DESCRIPTION	MODIFIED BALLAST BLOCK OVER SPG. POCKET FOR IGBT LOCO E1 RHS		
रैखिक अनुपात SCALE	1:10	आरेखण संख्या DRAWING NO.	1209-02.326-333		
दिनांकित आद्यक्षर DATED INITIAL	संदर्भ / REF. 1209-02.326-32 3	परिवर्तन संख्या ALTERATION NO.	2	पृष्ठ SHEET	1 OF 1
			A3		

F

E

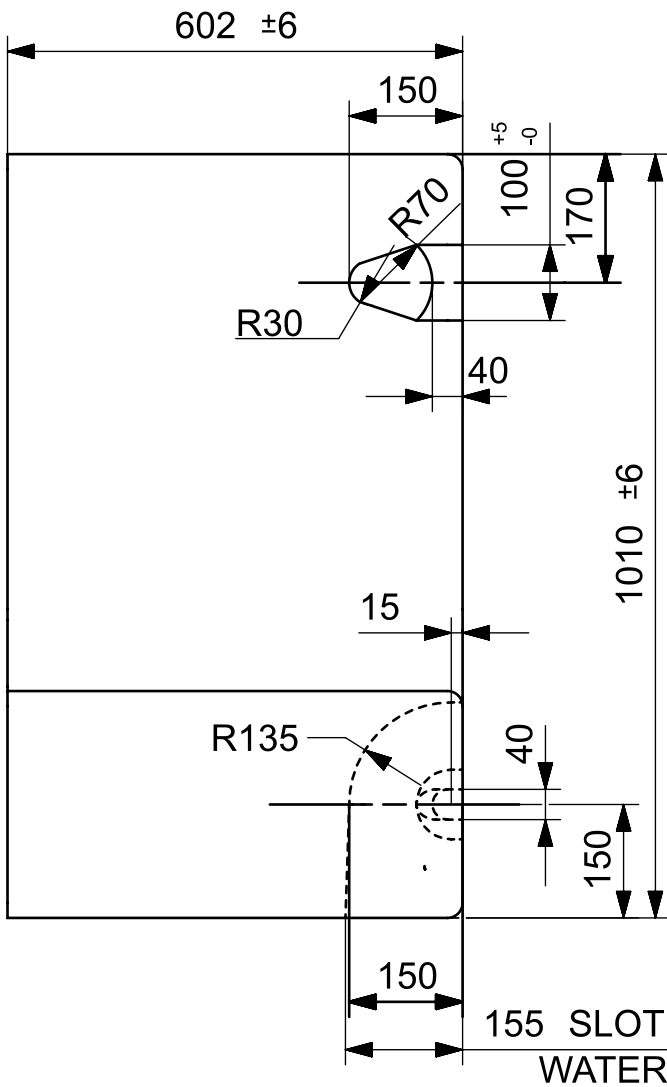
D

C

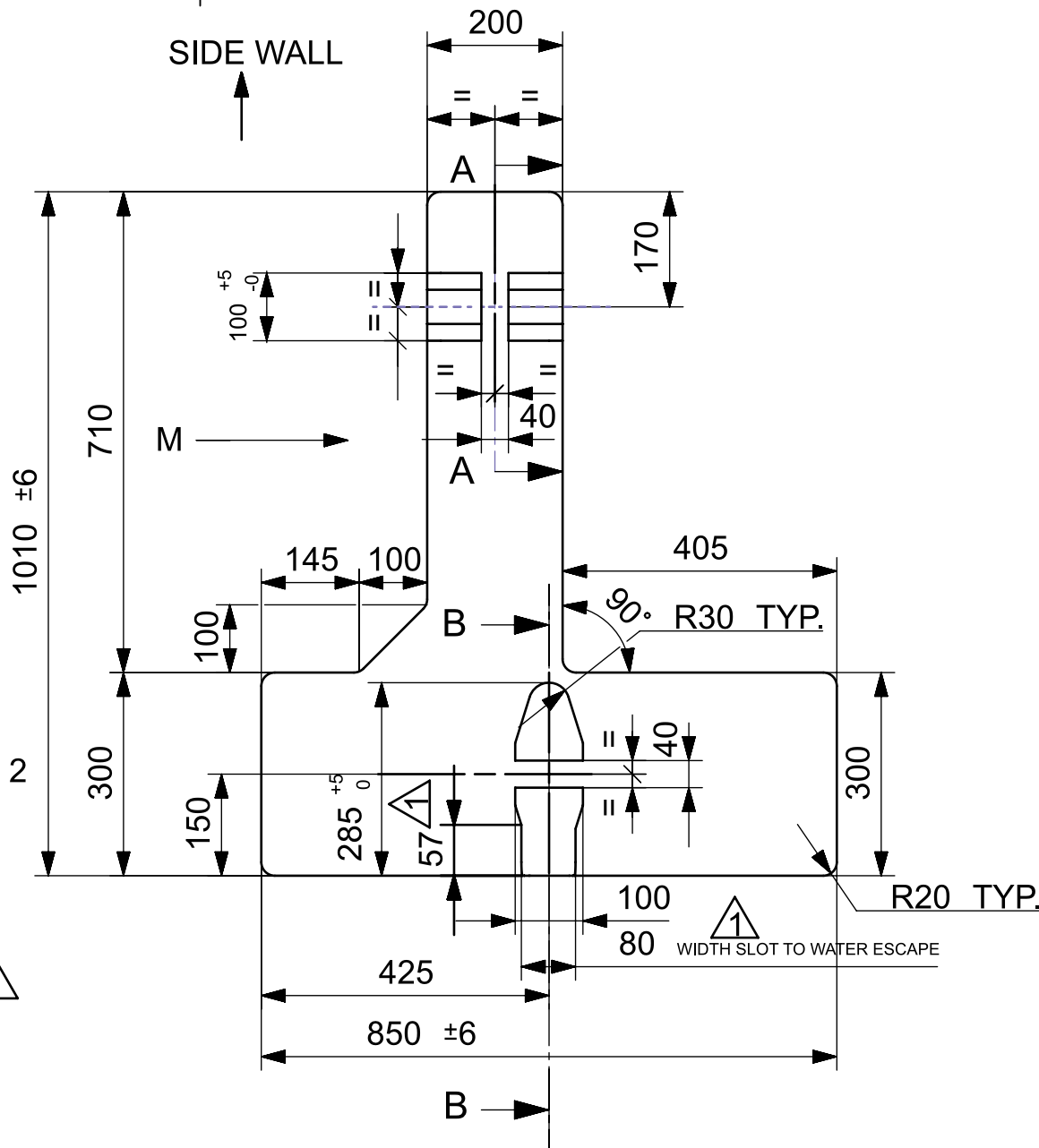
B

A

ALL DIMENSIONS ARE IN mm

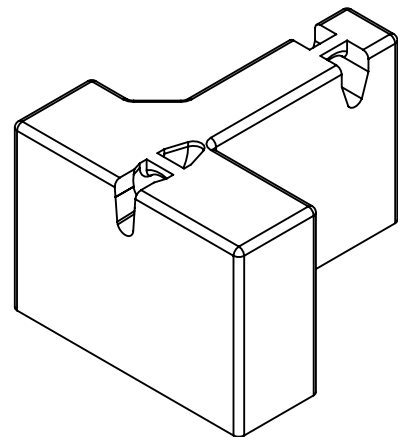


VIEW FROM M



TOP VIEW

VIEW C



F

E

D

C

B

A

NOTE:-

1. LIFTING ROD SHOULD BE INTEGRALLY CAST.
2. FOR SECTIONAL & DETAIL VIEWS FOLLOW DRG. NO. 1209-02.326-336
3. ALL EDGES & SURFACES SHOULD BE FLAT & SMOOTH.
4. FOR PERMISSIBLE DEVIATIONS OF UNTOLERANCED DIMENSIONS FOR STEEL CASTING TO BE FOLLOWED TABLE 3 OF IS 4897:1994
5. VERTICALITY, PARALLELITY, FLATNESS TO BE MAINTAINED WITHIN LIMIT.
6. RIGHT ANGLE VERTICALITY OF SURFACE TO SURFACE TO BE MAINTAINED WITHIN LIMIT.
7. USED FOR LOCO-WAG-9 HC
8. C & D NO-T302/393
9. QTY./LOCO-01
10. NEXT LEVEL ASSEMBLY DRG. NO.
11. SURFACE COATING TO BE DONE WITH STONE GREY COLOUR AS PER RAL 7030 AFTER TWO COATS OF PRIMER OF MIN.50 MICRON EACH.

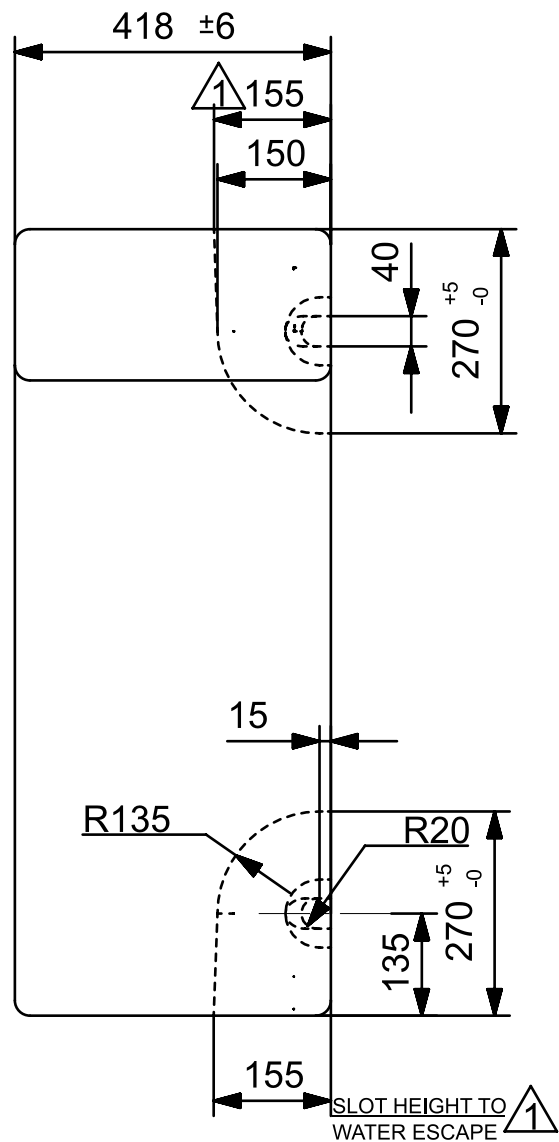
धातु-वेल्डन चिन्ह भा. मा. : 813 / अ. मा. सं.:2553 WELDING SYMBOLS TO IS:813 / ISO:2553	अनिर्दिष्ट सद्य – सीमा भा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												TOL. CLS.
	पदांक GRADE NO.	सं1 N1	सं2 N2	सं3 N3	सं4 N4	सं5 N5	सं6 N6	सं7 N7	सं8 N8	सं9 N9	सं10 N10	सं11 N11	सं12 N12
सतह – रुक्षता का मान भा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302	Rz	0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250
	Ra μ m	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
	चिन्ह SYMBOL												

परिवर्तन संख्या ALT. NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION	दिनांकित DATED INITIAL
2	DY.CEE/D-III	NOTE 11 ADDED	
1	DY.CEE/D/CONV	DIMN57 ADDED,VIEW C- ADDED,CHANGED WIDTH SLOT FROM 20 TO 80& SLOT HEIGHT FROM 200 TO 155	

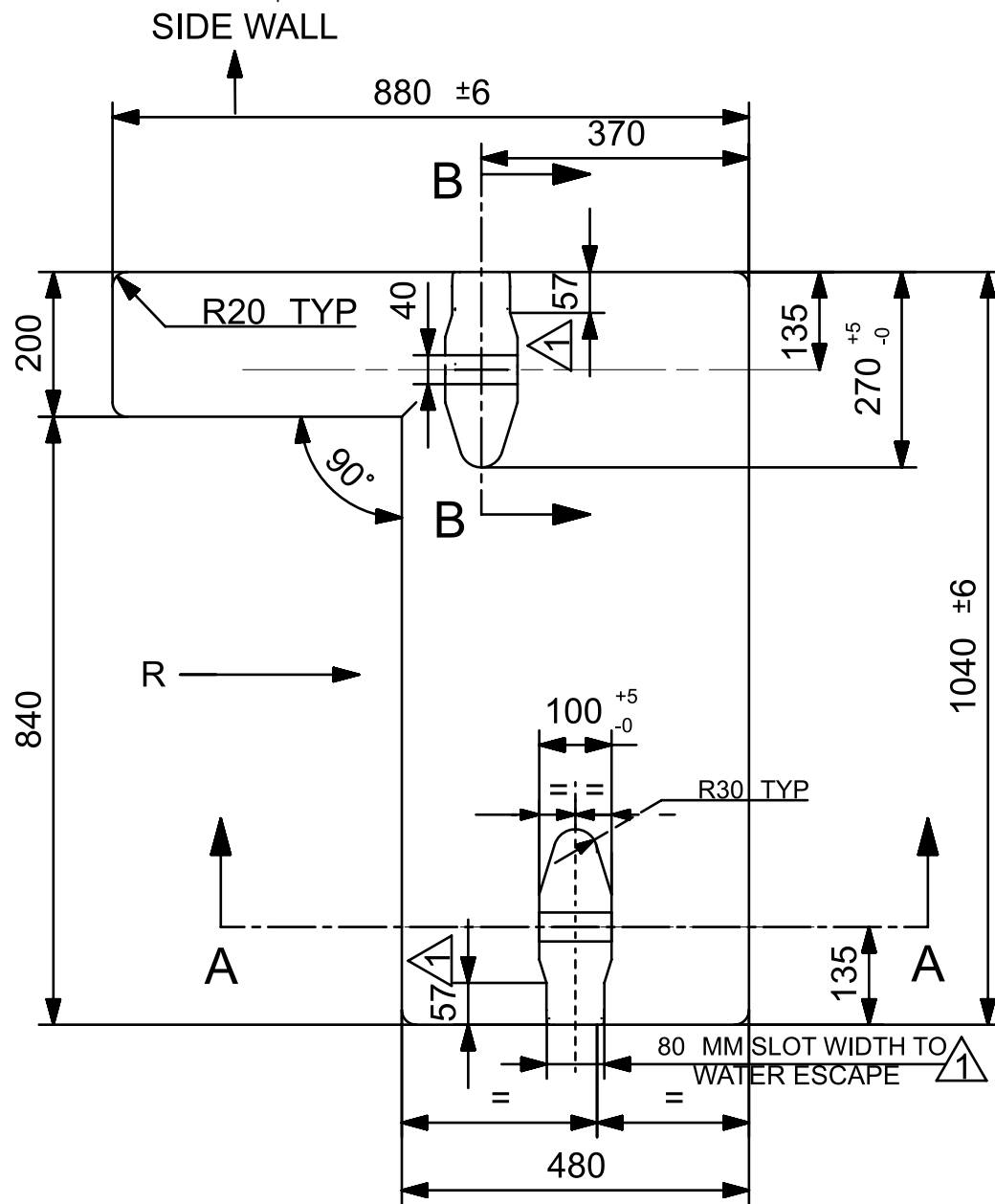
अधिकृत DGN		 चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA	
जॉचा व.अ.अ. CHD SSE	Abu Naser Digitally signed by Abu Naser Date: 2025.03.03 17:58:02 +05'30'		
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE		पदार्थ MATERIAL	CAST STEEL
अनुमोदित च.यु.वि.अ. APPROVED DYCEE	AMIT AGGARWAL Digitally signed by AMIT AGGARWAL Date: 2025.03.03 17:58:02 +05'30'	प्रति भार कि. ग्रा. WT. EACH IN KG	1850 KG ± 30
दिनांक DATE	26-02-2025	विशिष्ट SPECN	IS: 1030 GR. 280-520 W
रैखिक अनुपात SCALE	1:10	वर्णन DESCRIPTION	MODIFIED BALLAST BLOCK OVER SPG. POCKET FOR IGBT LOCO END-2 LHS
संदर्भ / REF. 1209-02.326-32	ALT- 03	आरेखण संख्या DRAWING NO.	1209-02.326-334
परिवर्तन संख्या ALTERATION NO.	2	पुर्ण SHEET	1 OF 2
			A3

506227/2026/O/o DY.CEE/DI/CONV

ALL DIMENSIONS ARE IN mm

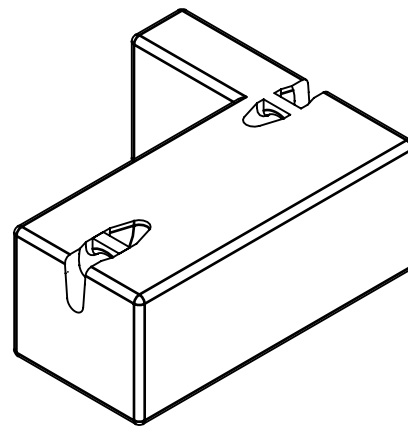


VIEW FROM R



TOP VIEW

VIEW C



CAB 2

CAB 1


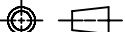
NOTE:-

1. LIFTING ROD SHOULD BE INTEGRALLY CAST.
2. FOR SECTIONAL & DETAIL VIEWS FOLLOW DRG. NO. 1209-02.326-336
3. ALL EDGES & SURFACES SHOULD BE FLAT & SMOOTH.
4. FOR PERMISSIBLE DEVIATIONS OF UNTOLERANCED DIMENSIONS FOR STEEL CASTING TO BE FOLLOWED TABLE 3 OF IS 4897:1994
5. VERTICALITY, PARALLELITY, FLATNESS TO BE MAINTAINED WITHIN LIMIT.
6. RIGHT ANGLE VERTICALITY OF SURFACE TO SURFACE TO BE MAINTAINED WITHIN LIMIT.
7. USED FOR LOCO-WAG-9 HC
8. C & D NO-T302/394
9. QTY./LOCO-01
10. NEXT LEVEL ASSEMBLY DRG. NO.

11. SURFACE COATING TO BE DONE WITH STONE GREY COLOUR AS PER RAL 7030 AFTER TWO COATS OF PRIMER OF MIN.50 MICRON EACH.

धातु-वेल्डन चिन्ह भा. मा. : 813 / अ. मा. सं. : 2553 WELDING SYMBOLS TO IS:813 / ISO:2553	अनिर्दिष्ट सद्य - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												TOL. CLS.
	पदांक GRADE NO.	सं1 N1	सं2 N2	सं3 N3	सं4 N4	सं5 N5	सं6 N6	सं7 N7	सं8 N8	सं9 N9	सं10 N10	सं11 N11	सं12 N12
सतह - रुक्षता का मान भा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302	Rz	0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250
	Ra μ m	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
	चिन्ह SYMBOL												

2	DY.CEE/D-III	NOTE 11 ADDED											
1	DY.CEE/D/CONV	DIMN.57 ADDED,VIEW C ADDED,CHANGED WIDTH SLOT FROM 20 TO 80 & SLOT HEIGHT FROM 200 TO 155											
परिवर्तन संख्या	प्राधिकार	वर्णन DESCRIPTION											
ALT. NO.	AUTHY												

अधिकृत DGN				<div></div> <div>चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div>											
जॉचा व.अ.अ. CHD SSE		Abu Naser <small>Digitally signed by Abu Naser DN: cn=Abu Naser, o=CLW, email=abu@clw.co.in, c=IN</small>		पदार्थ MATL		CAST STEEL		प्रति भार कि. ग्रा. WT. EACH IN KG		1850 KG ± 30					
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE				विशिष्ट SPECN		IS: 1030 GR. 280-520 W									
अनुमोदित उ.मु.वि.अ. APPROVED DYCEE		AMIT AGGARWAL <small>Digitally signed by AMIT AGGARWAL DN: cn=AMIT AGGARWAL, o=CLW, email=amit@clw.co.in, c=IN</small>		वर्णन		MODIFIED BALLAST BLOCK OVER SPG. POCKET FOR IGBT LOCO END-2 RHS									
दिनांक DATE		26-02-2025		DESCRIPTION											
रैखिक अनुपात SCALE		1:10		आरेखण संख्या DRAWING NO.		1209-02.326-335									
दिनांकित आद्यक्षर DATED INITIAL		संदर्भ / REF. 1209-02.326-32 5				परिवर्तन संख्या ALTERATION NO.		2		पुर्ण SHEET		1 OF 1		A3	
		-ALT- 01													

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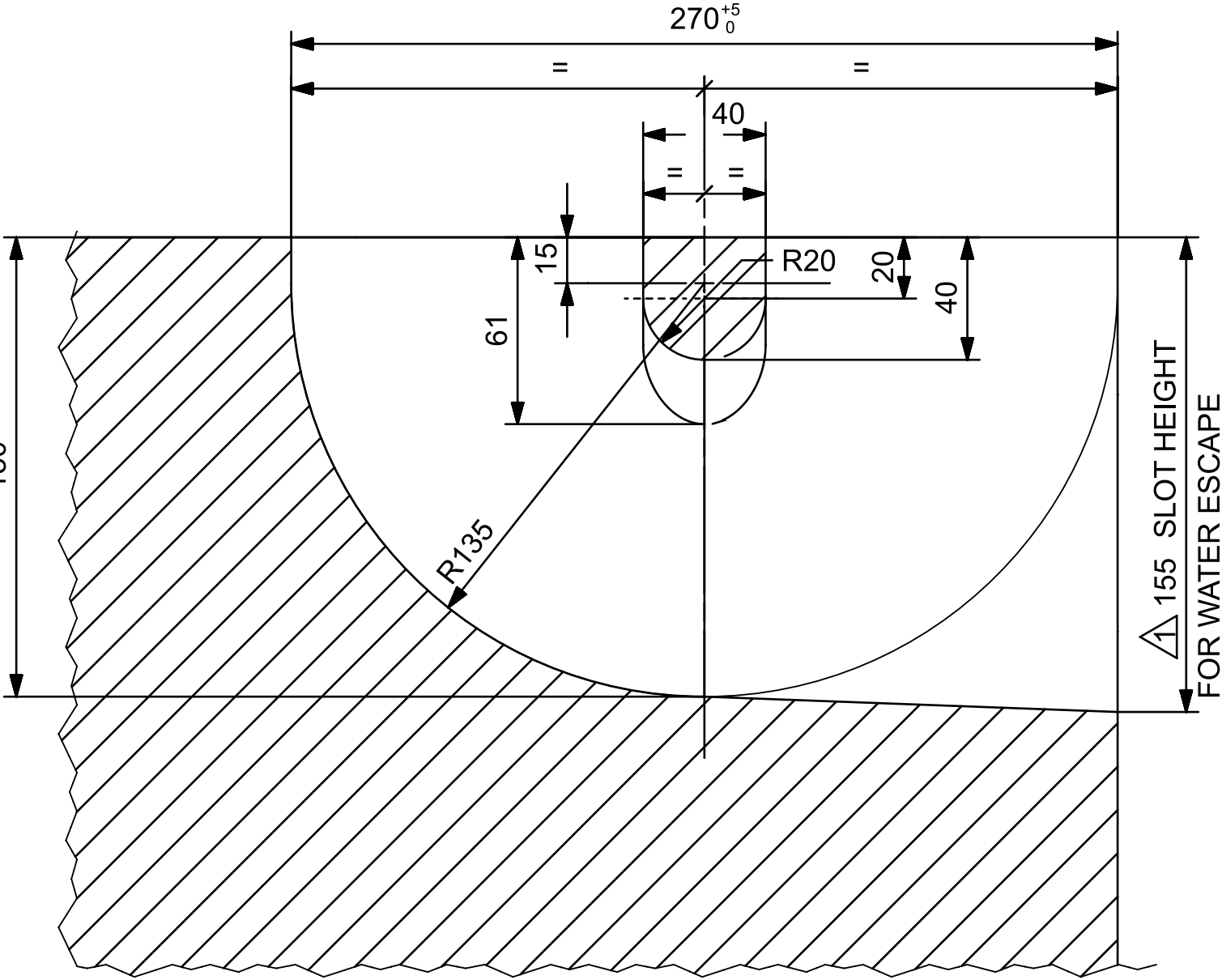
E

D

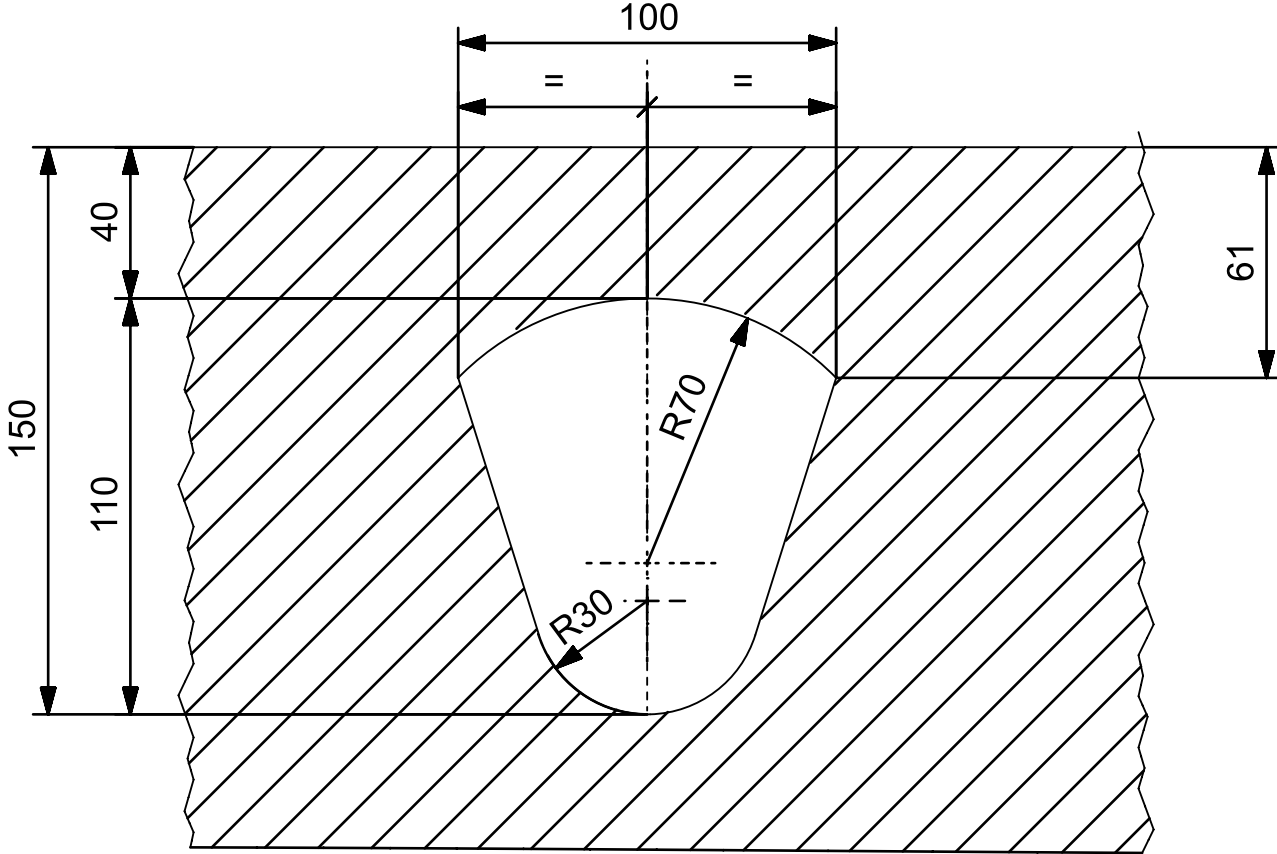
C

B

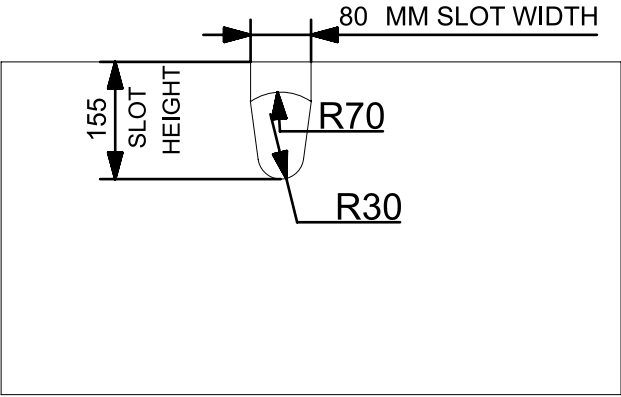
A



SECTION B-B (TYP.)
SCALE 1:2



SECTION A-A (TYP.)
SCALE 1:2



VIEW-C (TYP.)
1

NOTE
1. READ THIS DRAWING IN CONJUNCTION WITH DRG NO- 1209-02.326-332,1209-02.326-333, 1209-02.326-334 &1209-02.326-335,

धातु-वेल्डन चिन्ह भा. मा. : 813 / अ. मा. सं. :2553 WELDING SYMBOLS TO IS:813 / ISO:2553	अनिर्दिष्ट सद्य - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												TOL. CLS.
	पदांक GRADE NO.	सं1 N1	सं2 N2	सं3 N3	सं4 N4	सं5 N5	सं6 N6	सं7 N7	सं8 N8	सं9 N9	सं10 N10	सं11 N11	सं12 N12
	Rz	0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250
	Ra μ m	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
सतह - रुक्षता का मान भा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302	चिन्ह SYMBOL												

1	DY. CEE/D / CONV.	VIEW C ADDED , CHANGED WIDTH SLOT FROM 20 TO 80 & SLOT HEIGHT FROM 200 TO 155	
परिवर्तन संख्या ALT. NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION	दिनांकित आधार DATED INITIAL

अधिकृत DGN		चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA	
जोधा व.अ.अ. CHD SSE	SHIB NARAYAN KUNDU Digitally signed by SHIB NARAYAN KUNDU Date: 2022.12.14 12:01:44 +05'30'	पदार्थ MATL	प्रति भार कि. ग्रा. WT. EACH IN KG
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE		विशिष्ट SPECN	
अनुमोदित उ.मु.वि.अ. APPROVED DYCEE	SYAMA PRASAD PATRA Digitally signed by SYAMA PRASAD PATRA Date: 2022.12.14 12:01:44 +05'30'	वर्णन DESCRIPTION	SECTION DETAIL OF MODIFIED BALLAST BLOCK
दिनांक DATE	14-12-2022	आरेखण संख्या DRAWING NO.	1209-02.326-336
रैखिक अनुपात SCALE	1:2	परिवर्तन संख्या ALTERATION NO.	1
संदर्भ / REF. ALT-		पुर्ण SHEET	1 OF 2
			A3