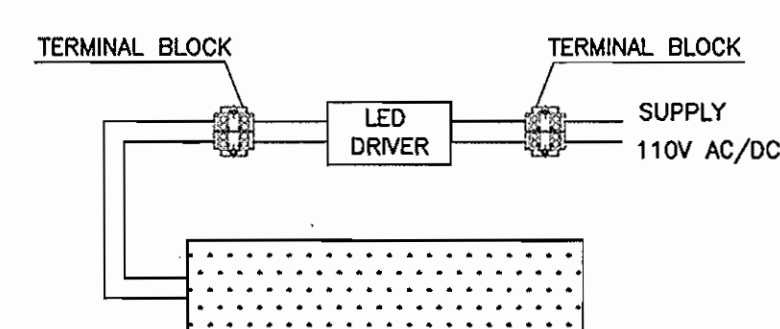
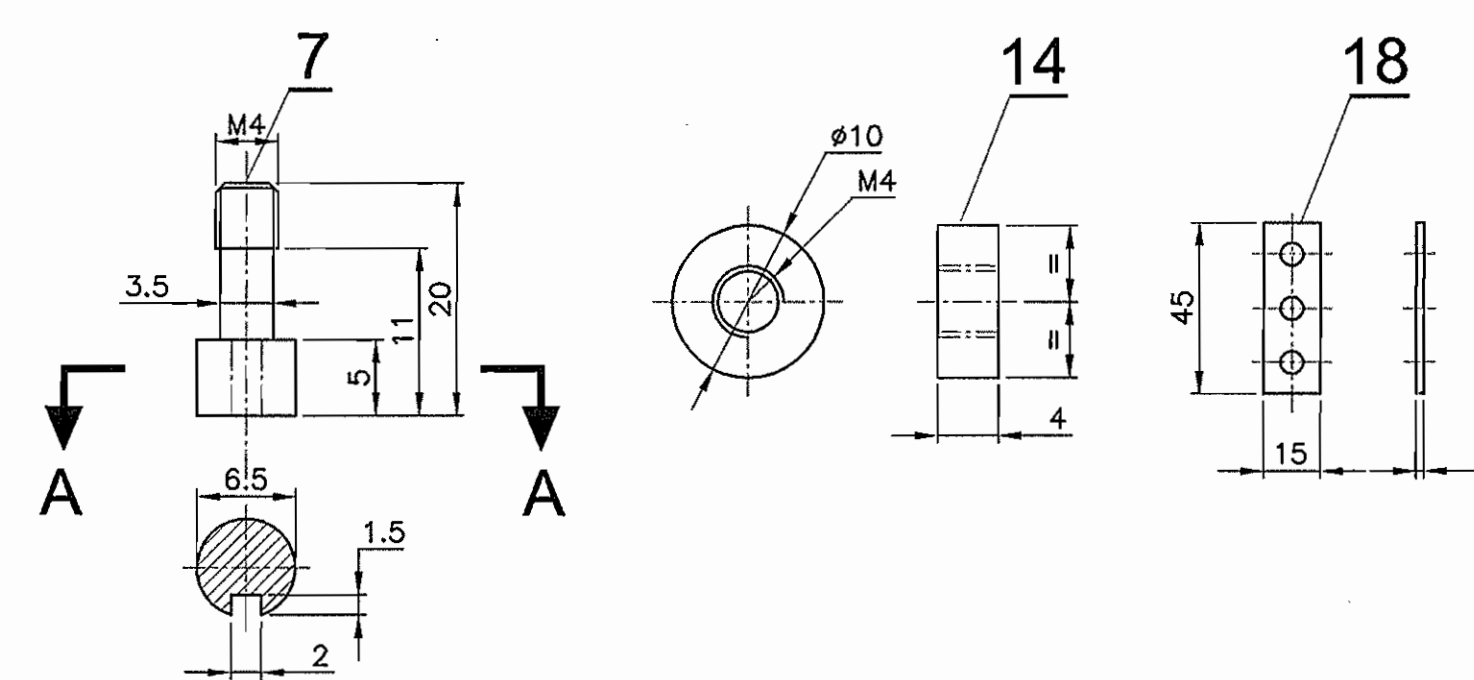
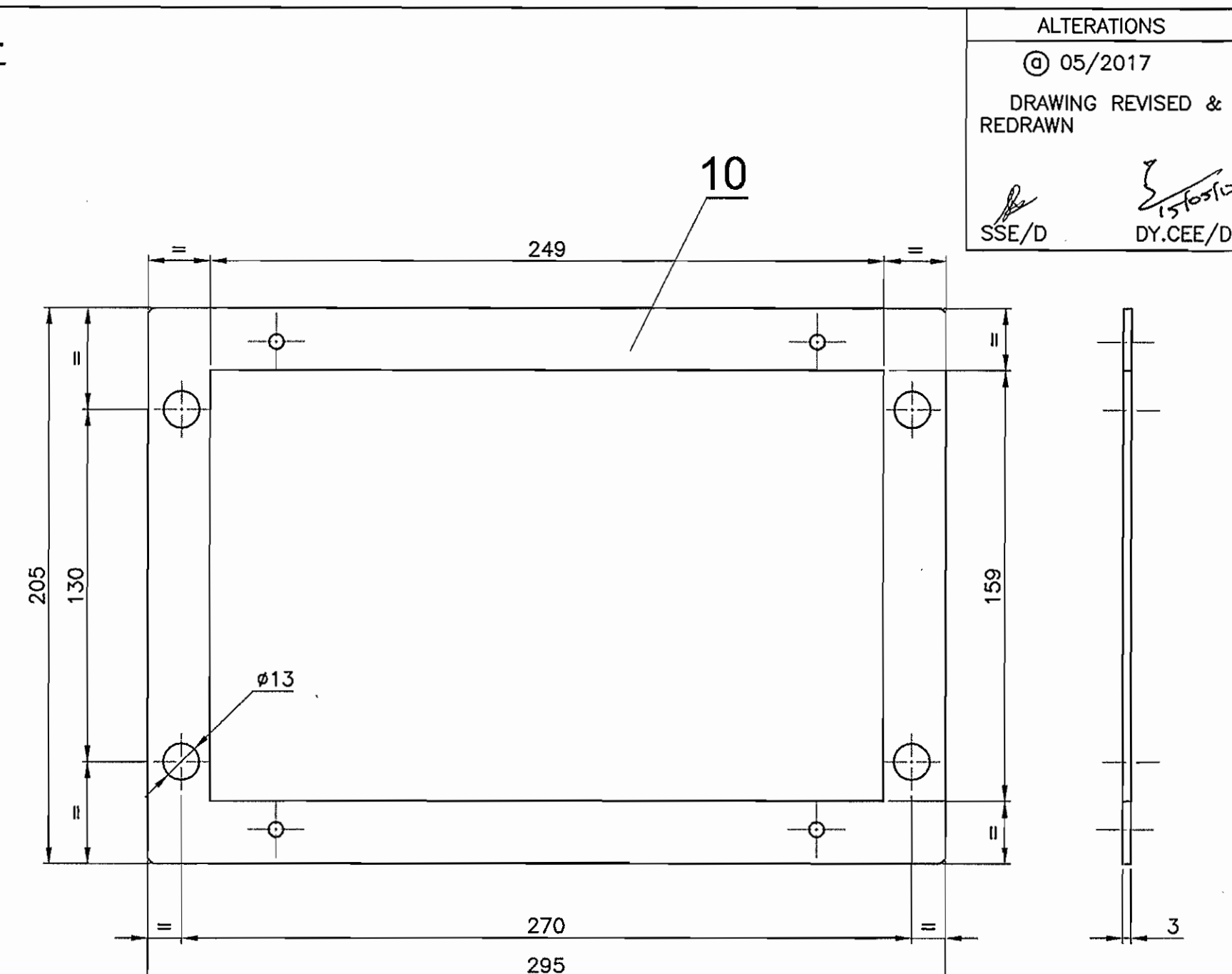
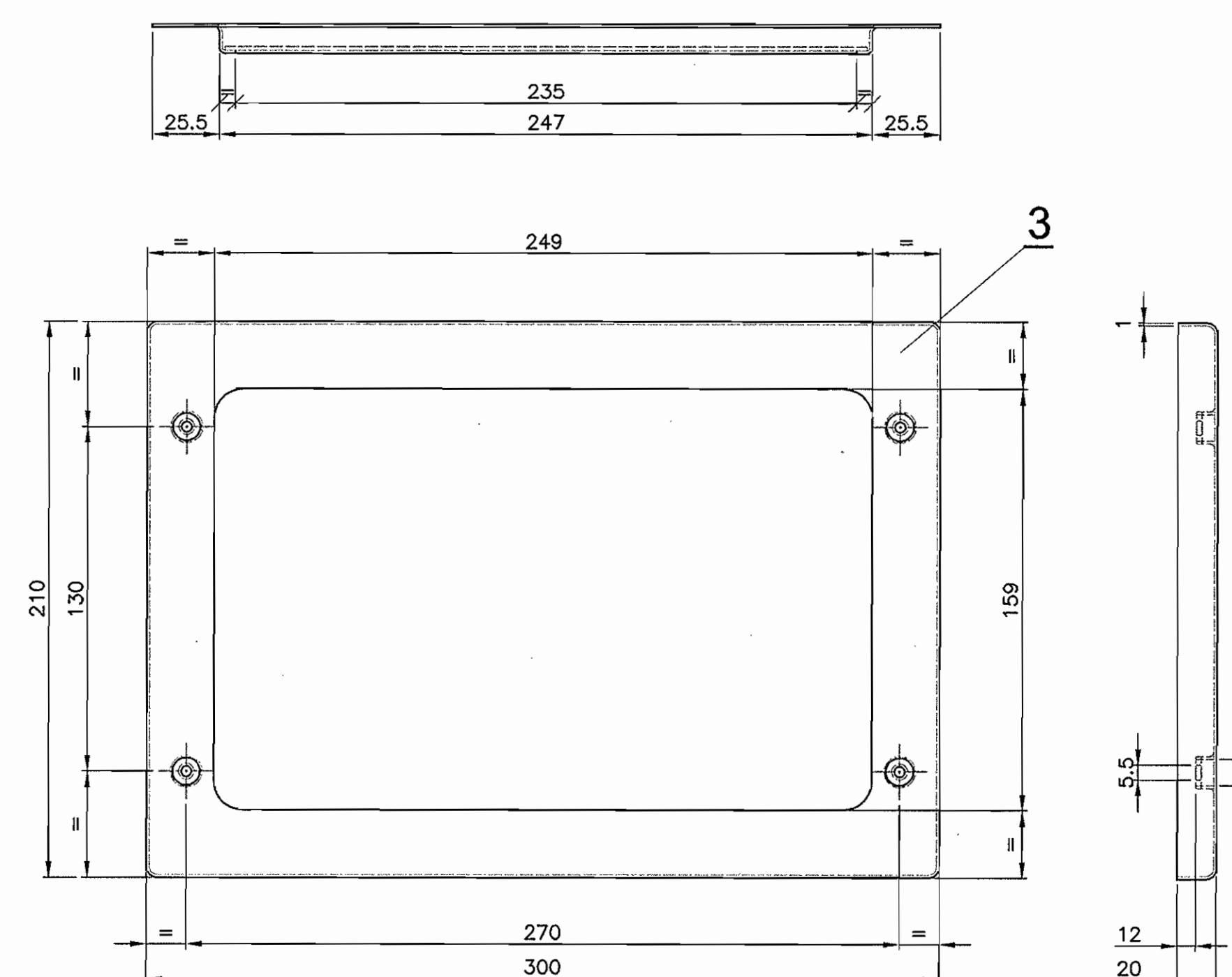
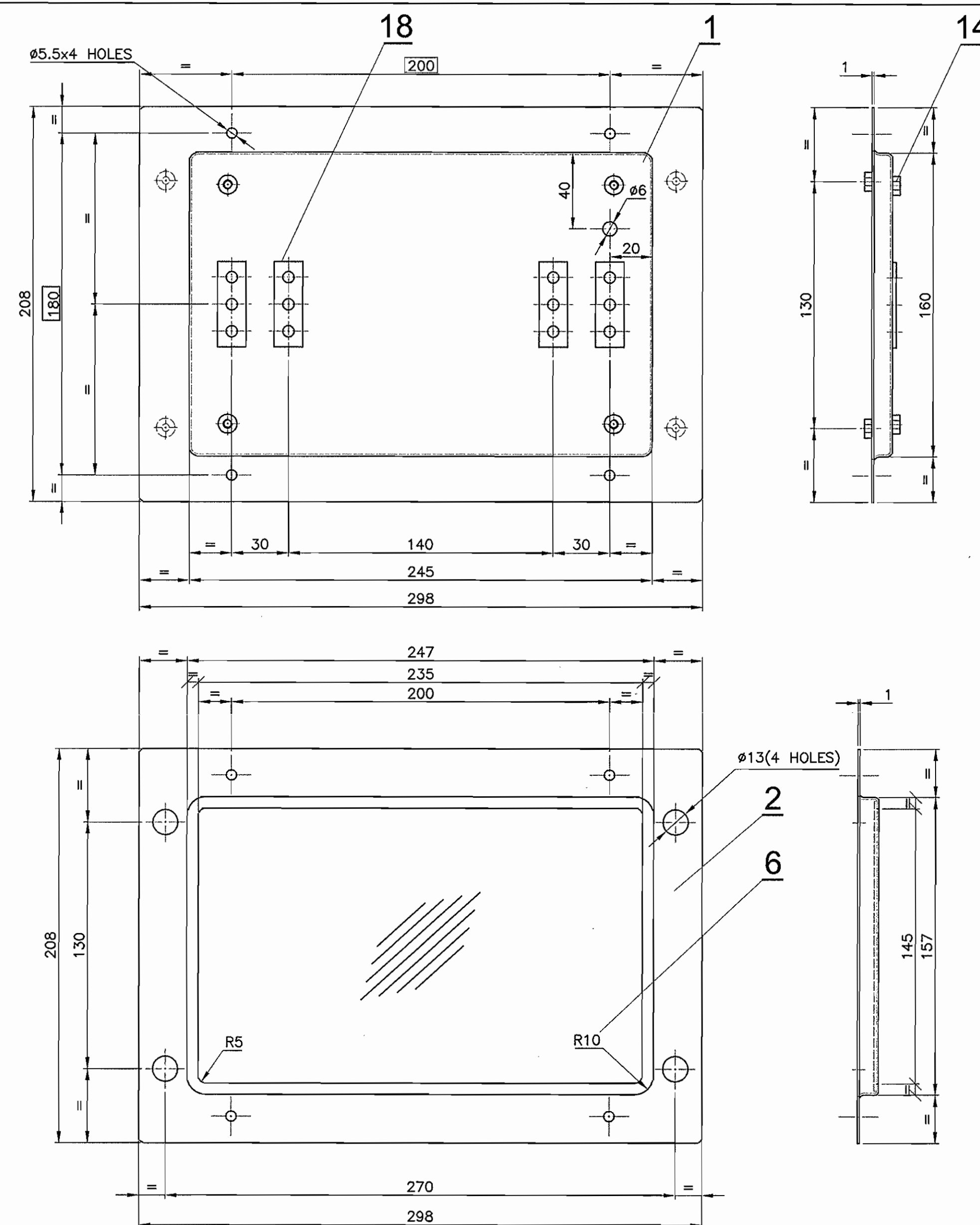
TABLE-1
DETAILS OF TERMINAL CONNECTOR

DESCRIPTION	CAT.NO & QTY.	QTY/FITTING
TWO CONDUCTOR TERMINAL BLOCK	(261-301)X2 OF M/S WAGO OR SIMILAR IN PHOENIX MAKE	2
END PLATE	(261-361) OF M/S WAGO OR SIMILAR IN PHOENIX MAKE	2

SCHEMATIC DIAGRAM FOR LED LIGHT
(FOR REFERENCE ONLY)

NOTE:

- ALL DIMENSIONS IN MM.
- FRAMED DIMENSIONS ARE TO BE STRICTLY ADHERED TO BY JIG PINCHING.
- ALL STEEL ITEMS EXCLUDING HARDWARE SHALL BE GIVEN SURFACE TREATMENT FOR ANTI-RUST & ANTI-CORROSION BEFORE FINISHING WITH POWDER COATING. THICKNESS OF POWDER COATING SHALL NOT BE LESS THAN 60 MICRONS TO WHITE COLOUR (SHADE NO.042 'IFB WHITE' OF M/S BERGER OR SIMILAR IN M/S ASIAN, M/S NEROLAC MAKE PAINT) WITH GLOSSY FINISH.
- TERMINAL CONNECTOR SHALL BE OF CAGE CLAMP TYPE WAGO/PHONEIX MAKE AS INDICATED IN TABLE-1.
- DOM KEY SHALL BE SUPPLIED ONE NUMBER FOR EVERY 10 FITTINGS AS PER DRG. NO:CC76052.
- ONLY TIG/SPOT WELDING SHALL BE DONE AS PER THE REQUIREMENT. NO OTHER WELDING IS ACCEPTABLE.
- 3mm. EPDM GASKET MAY BE IN SINGLE PIECE TO BE GLUED ALL AROUND LOCATIONS INDICATED ON DRAWING.
- SUITABLE GROMMETS TO BE PROVIDED FOR CABLE TRAVERSING TO THE LED DRIVER.
- ITEMS-1,2 & 3 SHOULD BE DEEP DRAWN AND NOT FABRICATED.
- SCHEMATIC DIAGRAM, MANUFACTURER'S INSGNIA SHALL BE SCREEN PRINTED ON ALUMINIUM PLATE AND PURCHASE ORDER AND S.NO. IN THE FORM OF 'YYYYMMNN' WHERE 'YYYY' STAND FOR YEAR 'MM' STAND FOR MONTH AND 'NNN' STAND FOR RUNNING SERIAL NO. SHALL BE PINCHED ON IT AS SHOWN IN LEGEND PLATE AND RIVETTED AT THE BACK SIDE OF THE FITTING.
- WIRING TO BE DONE WITH 1.0 SQ.MM PTFE CABLE OR E-BEAM CABLE OF RDSO APPROVED MAKE ONLY.
- HOUSING OF LED DRIVER SHALL BE MADE FROM 1MM. THICK ALUMINIUM SHEET/FIRE RETARDANT POLYCARBONATE OR FIBER SHEET MATERIAL.
- DIFFUSER MATERIAL SHALL BE CONFORMING TO UL 94VO & MADE FROM 'LEXAN SP24-492X' FIRE RETARDANT POLYCARBONATE MATERIAL OF GE PLASTIC/SABIC MAKE OR EQUIVALENT WITH PRIOR APPROVAL OF CEE/ICF. DIFFUSER THICKNESS SHALL NOT BE LESS THAN 1.5MM AND SHALL BE FREE FROM SCRATCHES, AIR BUBBLES, HOLES AND ULTRA-VIOLET STABILIZED.
- AFTER RIVETING SURFACE SHALL BE FLAT FINISH WITHOUT ANY PROJECTION.
- IF SUPPLIER WISHES TO OFFER MODIFICATIONS OR CHANGES TO THE GIVEN ARRANGEMENT, THEY SHALL TAKE PRIOR APPROVAL BEFORE SUBMISSION OF PROTOTYPE SAMPLE.
- ONE PROTOTYPE SAMPLE SHALL BE SUBMITTED FOR APPROVAL BEFORE MANUFACTURING/EFFECTING BULK SUPPLY.



SECTION-AA

NO.	OFF	DESCRIPTION & DIMENSIONS	ITEM	REF.	DRG.	MAT.& SPECN.	WEIGHT/UNIT	REMARKS
1		DOM KEY	19			CC76052		LOOSE SUPPLY
4		SCREWING PIECE 2x15x45	18			IS:1079-LATEST FE-410		
6		SPRING WASHER M4	17			IS:3063-LATEST TAB-1, TY-B		
6		PLAIN WASHER Ø4.5	16			IS:2016-LATEST TAB-3, TY-B		
6		CH. HD. SCREW AM4 x 6	15			IS:1366-LATEST 4.8, T-1		
8		ROUND BOSS Ø10x4 (M4)	14			IS:2062-LATEST FE-410 WC		
14		RIVET	13			IS:2907-LATEST TAB-3, TY-3		
4		CH. HD. SCREW AM3 x 6	12			IS:1366-LATEST 4.8, T-1		
2		TWO CONDUCTOR TERMINAL BLOCK	11					SEE NOTE-4
1		EPDM GASKET	10					SEE NOTE-7
1		GROMMET	9			IS:5270-LATEST TAB-1, TY-2		A=11, E=1
4		CIRCLIP	8			IS:3075-LATEST TAB-E, PT-3		
4		CAPTIVE SCREW	7			IS:2062-LATEST FE-410 WC		
1		DIFFUSER 1.5MM	6					SEE NOTE-13
1		LED DRIVER	5					SEE NOTE-12
1		PCB FOR LED	4					
1		BOTTOM COVER FRAME 1MM	3			IS:513-LATEST GRADE-DD		
1		DIFFUSER COVER FRAME 1MM	2			IS:513-LATEST GRADE-DD		
1		TOP FRAME 1MM	1			IS:513-LATEST GRADE-DD		
SUPERSEDED BY:								
LED LIGHT FITTING, TYPE-B2 (9W)								
GANGWAY AREA OF ICF BUILT CONV. AC COACHES								
(AS PER SPEC. NO. RDSO/PE/SPEC/TL/0091-2016, REV.1)								
CAD FILE: ED-CAD\140 7-6 050-SA00.DWG								
INDIAN RAILWAY STANDARDS								
SHEET 1 OF 1								
ICF/STD-7-6-050								

RCF Annexure-3 to RDSO Specification no. RDSO/PE/SPEC/TL/0091-2016, Rev-1

A). This Annexure is being issued to RDSO Specification no. RDSO/PE/SPEC/TL/0091-2016, Rev-1 for Changes/Modifications of the undergiven drawings:


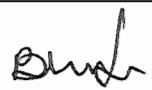
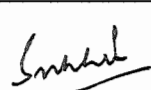
1. Section-AA in LED light fitting i.e. TYPE-L, M & N modified.
2. Type for LED light fitting for LSLRD coaches changed to TYPE-J1 and LED light for LVPH coach included as TYPE-J2. Accordingly codification has been modified in respective drawing.

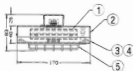
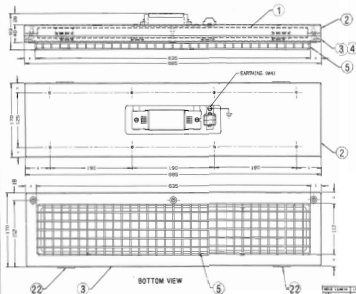
B). ANNEXURE-3 of RDSO Specification no. RDSO/PE/SPEC/TL/0091-2016, Rev-1:

The drawings of LED light Fittings mentioned in Annexure-3 are updated as under:

Sr. No.	Description	Type of Fitting	Drawing no.
16(a)	LED light fitting for SLR coaches	TYPE-J1 (9 W)	CC76457 Alt-'a'
16(b)	LED light fitting for LVPH coaches	TYPE-J2 (9 W)	CC76457 Alt-'a'
18	LED light fitting for Passenger area (Cabin) for LHB AC coaches	TYPE-L (18 W)	LW76090 Alt-'b'
19	LED light fitting with night light (Corridor Area) for LHB AC coaches	TYPE-M (9+1 W)	LW76091 Alt-'b'
20	LED light fitting for Doorway/Gangway area for LHB AC coaches	TYPE-N (9 W)	LW76099 Alt-'b'

C). The RCF Annexure-2 issued earlier Stands deleted.

RDSO/PE/SPEC/TL/0091-2016, Rev-1, RCF Annexure-1	3	09.09.2020				1 of 1
Specification No.	RCF Annexure	Date	SSE/CAD	SEE/D&D	Dy.CEE/D&D	Page

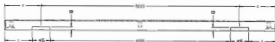
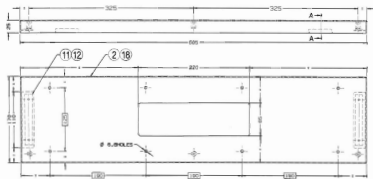


ISO-VIEW

NOTE 4: ALL DIMENSIONS IN MM.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE
THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.
FOR UNTOLERANCED DIMENSIONS REFER H000000 DATE OF FIRST ISSUE 11/03/2005

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SECTION A-A

NOTES: 1. ALL DIMENSIONS IN MM.

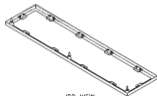
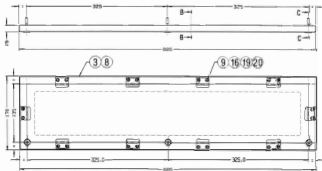
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THIS IS A COMPUTER GENERATED DRAWING. NOT MANUAL. ALL DIMENSIONS SHALL GOVERN OVER ALL OTHER DIMENSIONS.

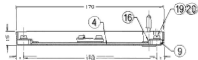
FOR: UNITED STATES DISTRICT COURT OF THE DISTRICT OF COLUMBIA DATE OF FILING: 3/1/2004

[illegible]

UPPER COVER COMPLETE
LED LIGHT FITTING FOR MEMU COACHES
(DMC/TC) TYPE-T (18W)



ISO-VIEW



SECTION B-B



SECTION C-C

NOTE 1: ALL DIMENSIONS IN MM.

DETAIL DWS STARTING WITH "L" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

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FOR INTOLERANCED DIMENSIONS REFER HEADERS DATE OF FIRST ISSUE 31/03/2005

REV	REASON	DATE	DESIGNER	CHECKED	APPROVED	BY	DATE
001	ELECTRICAL	31/03/2005	DR	DR	DR	DR	31/03/2005
002	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
003	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
004	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
005	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
006	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
007	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
008	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
009	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005
010	COACHES (DMC/TC) TYPE-T (18W)	31/03/2005	DR	DR	DR	DR	31/03/2005

BOTTOM COVER COMPLETE
WITH DIFFUSER LED LIGHT FITTING FOR MENU
COACHES (DMC/TC) TYPE-T (18W)

DR

DR

DR

DR

DR

DR

DR

PL NO. NIL

DRG. NO. CC76460

REV. 10

REV. 10

REV. 10

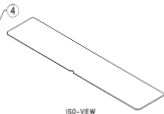
REV. 10

REV. 10

REV. 10

REV. 10

REV. 10



NOTE: 1. ALL DIMENSIONS IN MM.

DETAIL DRS STARTING WITH "11" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

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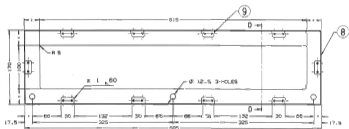
FOR UNTOLERANCED DIMENSIONS REFER M8000000 DATE OF FIRST ISSUE 31/03/2005

ITEM NO.	REV.	DESCRIPTION & DIMENSIONS	APPROVED BY	DATE	REMARKS
111	1	DIFFUSER			
112	1	LED LIGHT FITTING FOR MEMU COACHES			
113	1	(DMC/TC) TYPE-T (18W)			
114	1	FOR LIGHTING INTERIOR			
115	1	FOR LIGHTING INTERIOR			
116	1	FOR LIGHTING INTERIOR			
117	1	FOR LIGHTING INTERIOR			
118	1	FOR LIGHTING INTERIOR			
119	1	FOR LIGHTING INTERIOR			
120	1	FOR LIGHTING INTERIOR			

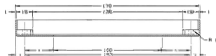
DRG. NO. CC76460

DATE OF FIRST ISSUE 31/03/2005

FOR UNTOLERANCED DIMENSIONS REFER M8000000



ISO-VIEW

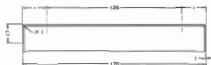
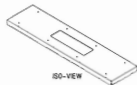
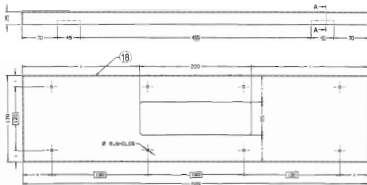


SECTION D-D

NOTE: 1. ALL DIMENSIONS IN MM.

DETAIL ORDS STARTING WITH "C" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.
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FOR UNTOLERANCED DIMENSIONS REFER H000000 DATE OF FIRST ISSUE: 01/03/2005

[illegible]



NOTE: 1. ALL DIMENSIONS IN MM.

DETAILS BEGINS STARTING WITH "PLT" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUES.
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FOR UNTOLERANCED DIMENSIONS REFER NUMBER 000000 DATE OF FIRST ISSUE 01/03/2000

FIELD LENGTH	NO.	DESCRIPTION & DIMENSIONS	UNIT	REMARKS	NO.	UNIT	REMARKS
100	1	UPPER COVER	mm	CC 76480 A1 (1)			
100	2	LED LIGHT FITTING FOR MENU COACHES (DMC/TC) TYPE-T (18W)	mm	CC 76480 A2 (1)			
100	3	8mm x 10mm	mm	CC 76480 A3 (1)			
100	4	8mm x 10mm	mm	CC 76480 A4 (1)			
100	5	8mm x 10mm	mm	CC 76480 A5 (1)			
100	6	8mm x 10mm	mm	CC 76480 A6 (1)			
100	7	8mm x 10mm	mm	CC 76480 A7 (1)			
100	8	8mm x 10mm	mm	CC 76480 A8 (1)			
100	9	8mm x 10mm	mm	CC 76480 A9 (1)			
100	10	8mm x 10mm	mm	CC 76480 A10 (1)			
100	11	8mm x 10mm	mm	CC 76480 A11 (1)			
100	12	8mm x 10mm	mm	CC 76480 A12 (1)			
100	13	8mm x 10mm	mm	CC 76480 A13 (1)			
100	14	8mm x 10mm	mm	CC 76480 A14 (1)			
100	15	8mm x 10mm	mm	CC 76480 A15 (1)			
100	16	8mm x 10mm	mm	CC 76480 A16 (1)			
100	17	8mm x 10mm	mm	CC 76480 A17 (1)			
100	18	8mm x 10mm	mm	CC 76480 A18 (1)			
100	19	8mm x 10mm	mm	CC 76480 A19 (1)			
100	20	8mm x 10mm	mm	CC 76480 A20 (1)			

Tele: 0522-2465739

Fax.: 0522-2465717

Email dir.pemetro@gmail.com



सत्यमेव जयते

भारत सरकार — रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ — 226011

Government of India- Ministry of Railways
Research, Designs & Standards Organization,
LUCKNOW — 226011

No. EL/ 6.4.8/1

5th July 2016

Chief Electrical Engineer,

- Eastern Railway, Fairlie Place, Kolkata - 700 001
- Northern Railway, Baroda House, New Delhi-110 001
- Central Railway, Parcel office, CST, Mumbai CST - 400 001
- Western Railway, Churchgate, Mumbai - 400 020
- Southern Railway, Park Town, Chennai -600 003
- East Central Railway, Dighi, Distt- Vashali, Hajipur, Bihar-844 101
- East Coast Railway, Bhuvneshwar Orissa-751 016
- North Central Railway, Subedarganj, Allahabad- 211033
- North Eastern Railway, Gorakhpur -273 001
- North Western Railway, Jaipur 302006
- Northeast Frontier Railway, Maligaon, Guwahati - 781 001
- Western Central Railway, HQR's Office, Annexe Building, Indra market, Jabalpur (M.P.) - 482001
- South Eastern Railway, Garden Reach, Kolkata - 700 043
- South Central Railway, Nilayam, Secunderabad - 500 371
- South Western Railway, New zonal Hq. Office, First floor, west block, Hubli 580 020
- South East Central Railway, Bilaspur-495004
- Konkan Railway, Belapur Bhawan, Sector-11, Belapur, Mumbai - 400 614
- Rail Coach Factory, Kapurthala-144 602
- Integral Coach Factory, Chennai-600 038
- Modern Coach Factory, Lalganj, Raibareilly-229 120

मुख्य विद्युत इंजीनियर

- पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700 001
- उत्तर रेलवे, बड़ौदा हाउस, नई दिल्ली - 110 001
- मध्य रेलवे, मुंबई सी एस टी - 400 001
- पश्चिम रेलवे, चर्चगेट, मुंबई- 400 020
- दक्षिण रेलवे, पार्क टाउन, चेन्नई - 600 003
- पूर्व मध्य रेलवे, हाजीपुर दिघी, जिला वैशाली, बिहार - 844 101
- पूर्व तट रेलवे, बी-2, रेल विहार, चन्द्रशेखरपुरा, भुवनेश्वर, 751 023 (उडीसा)
- उत्तर मध्य रेलवे, हेडक्वाटर, ब्लाक ऐ, सुबेदारगंज, इलाहाबाद - 211 033
- पूर्वोत्तर रेलवे, गोरखपुर - 273 001
- उत्तर पश्चिम रेलवे, जयपुर - 302 006
- पूर्वोत्तर सीमान्त रेलवे, मालीगांव, गुवाहाटी - 781 011
- पश्चिम मध्य रेलवे, जबलपुर - 482 001
- दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता - 700 043
- दक्षिण मध्य रेलवे, 7 तल, रेल निलायम सिकंदराबाद - 500 071
- दक्षिण पश्चिम रेलवे, 4 तल, श्री लक्ष्मी नारायण काम्पलेक्स, स्टेशन रोड हुबली - 580 020
- दक्षिण पूर्व मध्य रेलवे, बिलासपुर - 495 004
- कोकण रेलवे, रायगंड भवन, 8 तल, बेलापुर भवन, सेक्टर 11, पी0बी0 45, नवी मुम्बई 400 614
- आर0 सी0 एफ0, कपुरथला, 144 602 (पंजाब)
- आई0सी0एफ0, पेरमबुर, चेन्नई-600 038
- माडर्न कोच फैक्टरी, लालगंज, रायबरेली-229120, उत्तर प्रदेश

Sub: Specification No. RDSO/PE/SPEC/TL/0091-2016 (Rev.'1') for Energy Efficient LED based Luminaire Units for Passenger Coaches.

RDSO has prepared and finalized the specification No. RDSO/PE/SPEC/TL/0091-2016 (Rev.'1') for Energy Efficient LED based Luminaire Units for Passenger Coaches.

A copy of the Specification No. RDSO/PE/SPEC/TL/0091-2016 (Rev.'1') for Energy Efficient LED based Luminaire Units for Passenger Coaches is enclosed herewith for reference and necessary action at your end.

Copy to:-

सचिव विद्युत/जी,
रेलवे बोर्ड, रेल भवन,
रेल मंत्रालय, नयी दिल्ली-110 001

Kind Attn. Shri Vinayak Garg, DEE(G)

(लीला धर सिंह यादव)
निदेशक/पी.ई. एवं बैट्री
कृते महानिदेशक/पी.एस एण्ड ई.एम.यू
05.07.2016

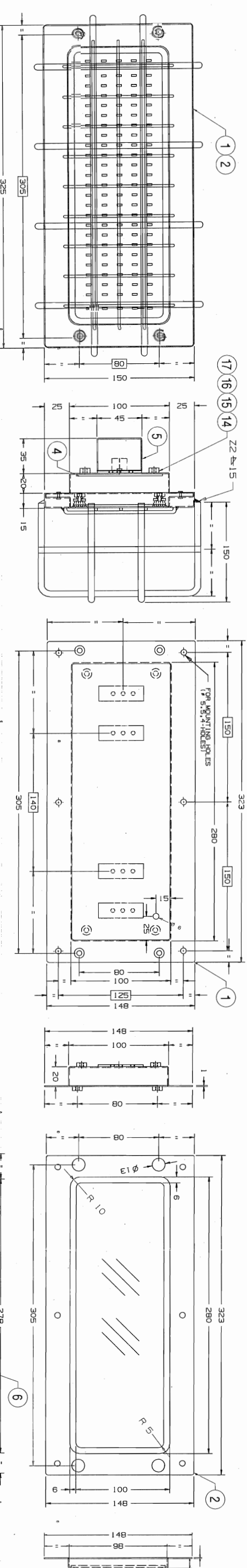
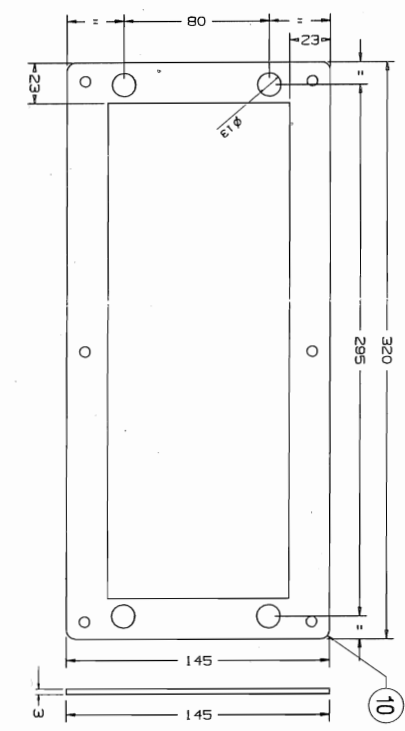
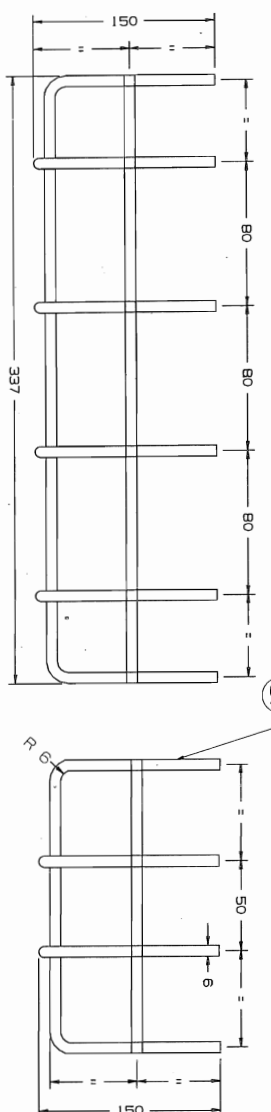
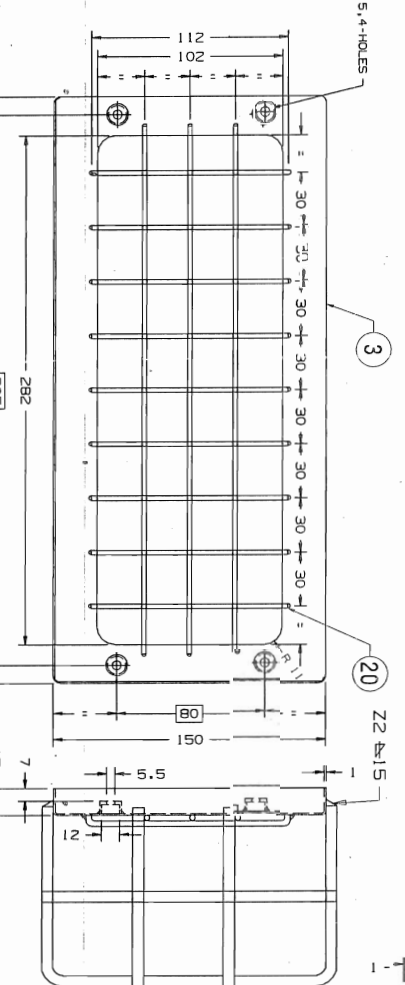
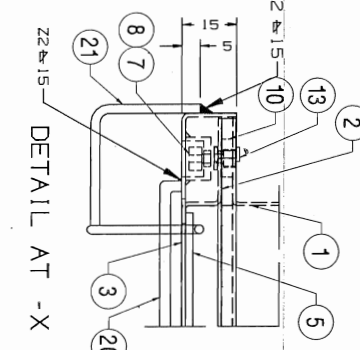


TABLE 1
DETAILS OF TERMINAL CONNECTOR

DESCRIPTION	CAT. NO. & QTY.	QTY/FITTING
2-CONDUCTOR TERMINAL STRIP OR SIMILAR IN PHENOLIC WAKE.		2



1. WIRE MESH GUARD SHALL BE MADE FROM 6 MM DIA G.I. WIRE IN OUTER SIDE AND 3 MM DIA G.I. WIRE IN INNER SIDE.
2. DIFFUSER MATERIAL SHALL BE CONFORMING TO UL 94V-0 & MADE FROM LEXAN SP24-492X FIRE RETARDANT POLYCARBONATE MATERIAL OF THICKNESS 2.1MM.
3. FREE FROM SCRATCHES, AIR BUBBLES, HOLES AND ULTRA-VIOLET STABILIZED.
4. HOUSING OF THE LED DRIVER SHALL BE MADE FROM 1MM THICK ALUMINUM SHEET/FIRE RETARDANT POLYCARBONATE OR FIBER SHEET.
5. MATERIAL TO BE DONE WITH 1.0 SQ.MM. FIRE CABLE OR E-LEAD CABLE OF 1.0 SQ.MM. CROSS SECTIONAL AREA AND MOUNTING DIMENSIONS FIXED TO 140MM.
6. SCHEMATIC DIAGRAM, MANUFACTURER'S INSTRUCTIONS, WIRING DIAGRAM, AND MOUNTING DIMENSIONS SHALL BE PROVIDED FOR MONTH AND YEAR STAND FOR MONTH AND YEAR.
7. SERIAL NO. SHALL BE PROVIDED FOR EACH UNIT AND NOT FABRICATED.
8. TERMINAL NO. SHALL BE PROVIDED FOR EACH CABLE TRAVELING TO THE LED DRIVER.
9. SUBSTRATE SPONGE MAY BE IN SINGLE PIECE TO BE GLUED ALL AROUND AT LOCATIONS INDICATED ON DRAWING.
10. SOLDERING SHALL BE DONE AS PER THE REQUIREMENT NO OTHER WELDING IS ACCEPTABLE.
11. DO NOT USE SOLDER FOR ANY OF THE CONNECTIONS.
12. TERMINAL CONNECTOR SHALL BE OF CAGE CLAMP TYPE WAGO/PHENIX MAKE AS INDICATED IN TABLE-1.
13. ALL STEEL ITEMS EXCLUDING HARDWARE SHALL BE GIVEN SURFACE TREATMENT FOR ANTI-RUST & ANTI-CORROSION TO WHITE COLOUR (SHADE NO. 042) '1FB-WHITE' OF M/S BERGER OR SIMILAR IN M/S ASIAN. (M/S NEROLAC MAKE PAINT) WITH GLOSSY FINISH.
14. FRAMED DIMENSIONS ARE TO BE STRICTLY ADHERED TO BY JIG PUNCHING.
- NOTE: ALL DIMENSIONS IN MM.



ITEM	DESCRIPTION & DIMENSIONS	QTY/UNIT	REMARKS
1	WIRE MESH GUARD 6MM G.I. WIRE.	1	SEE NOTE-14
2	WIRE MESH GUARD 3MM G.I. WIRE.	1	SEE NOTE-14
3	DOOR KEY	1	CC/6052
4	SCREWING PIECE 2X15X5MM	4	15-109 (LATEST)
5	SPRING WASHER M4	6	15-363 (LATEST)
6	PLAIN WASHER Ø 4.5	6	15-187 (LATEST)
7	CHAD SCREW M4X6	6	15-136 (LATEST)
8	ROUND BUSH Ø 10X4 (M4)	8	15-282 (LATEST)
9	RIVET	14	15-297 (LATEST)
10	CHAD SCREW M4X6	4	15-136 (LATEST)
11	2-CONDUCTOR TERMINAL STRIP	1	15-136 (LATEST)
12	EPDM SPONGE	1	15-270 (LATEST)
13	GR/MET	1	15-270 (LATEST)
14	CIRCLIP	4	15-282 (LATEST)
15	CATIVE SCREW	4	15-282 (LATEST)
16	PLAIN DIFFUSER THICKNESS 2.1MM.	1	POLYCARBONATE
17	LED DRIVER	1	NIL
18	PC FOR LED	1	NIL
19	DIFFUSER COVER THICKNESS 1MM	1	SEE NOTE-9
20	CC/6R THICKNESS 1MM	1	SEE NOTE-9
21	FR-4 PCB	1	SEE NOTE-9