



Cat. No. **MFCFL/B/2x36-IEC & MFCFL/T/2x36-IEC**
 Item **Ex-'d' IP-55° FLP/WP. Integral Bulkhead Luminary for Clean Room Application**

TECHNICAL DATA

Enclosure Type

Ex-'d' Class-1, Zone/Division-1, Gas Groups IIA & IIB, hazardous area application confirming to IS: 2148 / IEC: 60079-1 (Latest Edition).

Protection Class

Weatherproof IP-55° confirming to IS: 12063 / IEC: 60529.

Temp. Class

Up to T-3 or better.

Construction

Cast aluminium alloy LM-6.

Rating

Suitable for 2x36W CFL or 3x36W. CFL or 4x18/26W. CFL/PL Series Lamp at 240V. AC.

Glass

Flat clear Heat & Impact resistant Toughened confirming to IS: 13346 / IEC: 60079-0.

Holder

2/4-Pin type.

Terminal

Stud type / Cage clamp type.

Cable Entry

1/2 Nos.M20 (F).

Mounting

Suitable for wall/Column/Steel structure etc.

Earthing

1 No. inside & 2 Nos. outside, screws duly marked.

Hardware

High Tensile M. steel duly cadmium plated.

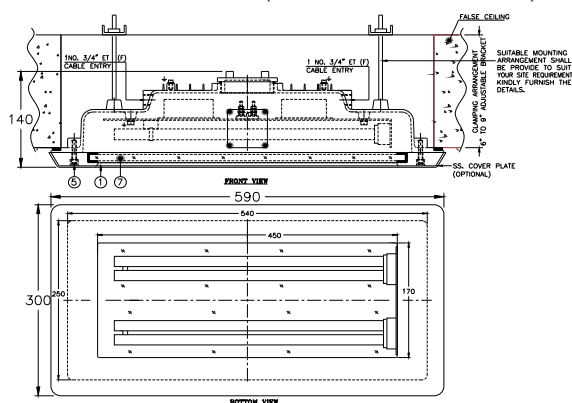
Finishing

Epoxy coated as per shade 632 of IS-5, or shade 631 on request.

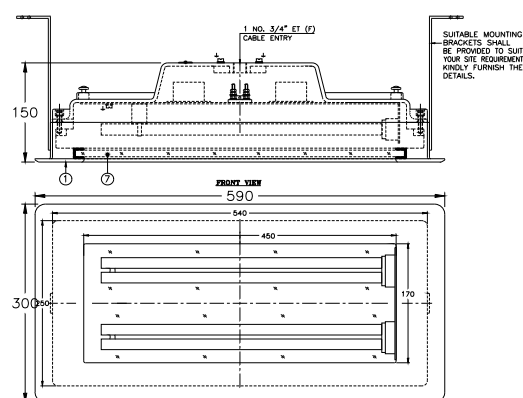
Name Plate

Detailed Name & Rating plate along-with warning inscription label as per IS.

MFCFL/B/2x36-IEC (BOTTOM OPENABLE)



MFCFL/T/2x36-IEC (TOP OPENABLE)



Cat. No. : **MFCFL/B/2x36-IEC**

CIMFR : CMRI/TC/P/H427

CCE/PESO: A/P/HQ/MH/104/1297 (P191207)

BIS : CM/L-0708044

DGMS : -

Cat. No. : **MFCFL/T/2x36-IEC**

CIMFR : CMRI/TC/P/H427

CCE/PESO: A/P/HQ/MH/104/1297 (P191207)

BIS : CM/L-0708044

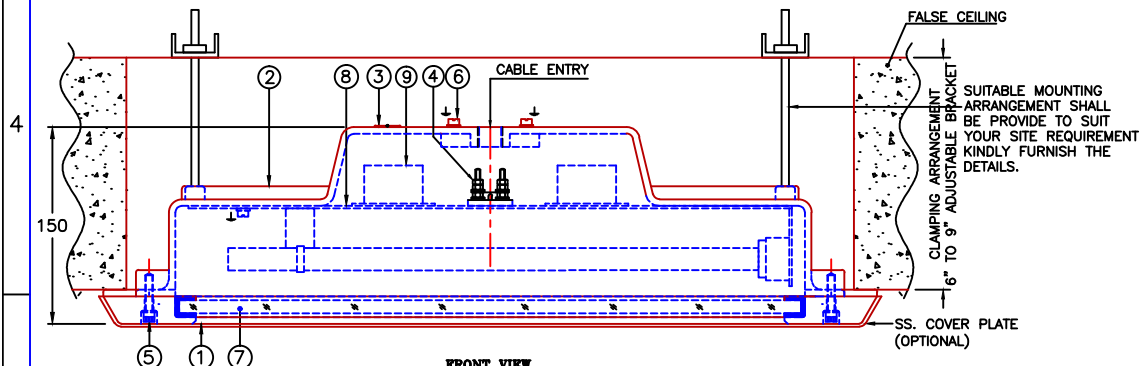
DGMS : -



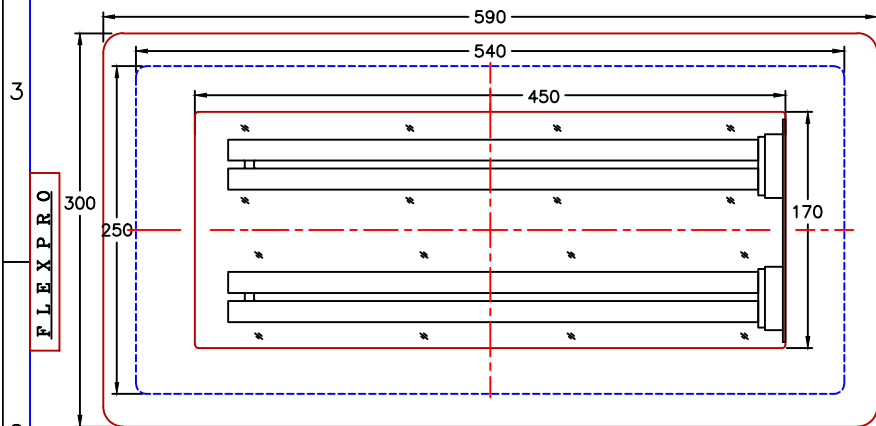
NOTE: ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED. (TOLERANCE ±5mm)

FLEXPRO

NO.	REVISION	DATE	CKD.BY	APPR.BY



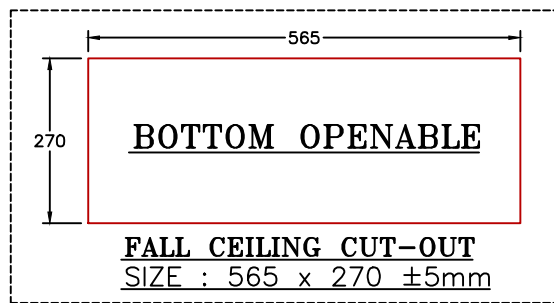
FRONT VIEW



BOTTOM VIEW

TECHNICAL DATA :-

- CONSTRUCTION : CAST ALUMINIUM ALLOY LM-6.
- TYPE OF ENCLOSURE : Ex'd, ZONE - I/II.
- AREA CLASSIFICATION : GAS GROUP IIA/IIB.
- PROTECTION : IP-55.
- RATING : SUITABLE FOR 2 x 36W. CFL LAMP AT 240V. AC.
- TRANSPARENT PART : CLEAR TOUGHENED TYPE "A" GLASS DOME.
- INTERNAL REFLECTOR : ALUMINIUM ANODISED (MIRROR OPTICS).
- HOLDER : 4-PIN TYPE.
- BALLAST : 2 x 36W. CFL ELECTRONIC BALLAST.
- TERMINALS : STUD TYPE.
- CABLE ENTRY : AS PER CLIENT REQUIREMENTS.
- CABLE ENTRY : Ex'd, DOUBLE COMPRESSION BRASS NICKEL PLATED "FLEXPRO" CABLE GLAND (OPTIONAL).
- STOPPER PLUG : Ex'd, NICKEL PLATED BRASS STOPPER PLUG (OPTIONAL).
- MOUNTING : AS SHOWN IN DRAWING.
- EARTHING : 1 NO. INSIDE & 2 NOS. OUTSIDE.
- FINISHING : DARK GREY EPOXY COATED, AS PER SHADE 631 OF IS-5.
- HARDWARE : SS. EXTERNAL HARDWARE.
- NAME PLATE : NAME CUM WARNING LABEL, AS PER IS. REQUIREMENTS.
- SPECIAL NOTE: PURCHASER OR THEIR CONSULTANT TO PROVIDE CABLE DIMENSIONS (LIKE O.D., ϕ U.A. & ϕ O.A), AT THE TIME OF APPROVING THIS DRAWING.



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ACAD FILE NO.: MFCFL-2x36-IEC

9	BALLAST/CHOKE	1	ELECTRONIC
8	REFLECTOR	1	AL. ANODISED
7	GLASS (TOUGHENED TYPE-A)	1	FLAT GLASS
6	EARTHING SCREW & PL. WASHER	3	M6 x 10
5	ALLEN CAP SCREW & SP.WASHER	12	M6 x 30
4	CONNECTOR BLOCK	1	BRASS & DMC
3	DETAILED LABEL CUM WARNING PLATE	1	SS.
2	COVER	1	AL. LM-6
1	MAIN ENCLOSURE	1	AL. LM-6
SR.NO.	DESCRIPTION	QTY.	MATL. & SIZE

CAT. NO.	MFCFL/B/2x36-IEC
CERT. NO.	CMRI CCOE/PESO BIS
	CMRI/TC/P/H427 A/P/HQ/MH/104/1297 (P191207) CM/L-0708044

DRG. NAME: Ex'd/IIA/IIB/IP-55 FLP/WP. FLUORESCENT LIGHT FIXTURE FOR CLEAN ROOM APPL. (BOTTOM OPENABLE)		MFG. BY FLEXPRO	
CLIENT	DGN. BY SHP	IS. REF.:	IS: 2148 IS: 13346 IS: 12063 FOR IP 55 OF PROTECTION.
CONSULTANT	CKD. BY AMP	INDENT NO.:	
PROJECT	APPR. BY PAM	DRG. NO.:	MFCFL/B/2x36/06 01
ITEM NO.	DATE 20.04.06	SCALE N.T.S	
QTY.	GROUP IIA/IIB		
PO. NO.			

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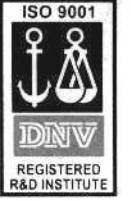
केन्द्रीय खनन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)

बरवा रोड, धनबाद - 826001, झारखण्ड, भारत



ORIGINAL COPY



Central Mining Research Institute

(Council of Scientific & Industrial Research)

BARWA ROAD, DHANBAD-826001, JHARKHAND, INDIA

REGISTERED POST/COURIER SERVICE

No. CMRI/TC/P/H427
Equipment ID NO. 187/06

Dated: 1st September, 2006
Code No. FLP/17C/06

To,
M/S. FLEXPLO ELECTRICALS PVT. LTD.,
GIDC, KABILPORE,
NAVSARI - 396424 (GUJARAT)

Sub: Flameproof Testing as per IS: 2148- 2004 (IEC 60079-1/2001) and Weatherproof testing as per IS: 12063 - 1987 (IEC 60529/1989) for IP-55 of your **Flameproof-cum-Weatherproof Integral or Non-Integral Fluorescent Luminary/Bulkhead Fixture**, suitable for three or four X 5/7/9/10/11/13/15/18/20/23/25/26W or Double or Triple 36W, or 45W. Compact Fluorescent Lamps (CFL or PL series Lamps) at 24/110/220/250Volts, AC/DC, 50/60Hz (max) for clean room application (bottom openable) in Cast Aluminium Alloy LM6 construction, designated by **Cat. No. MFCFL/B/2X36-IEC**, for use in Zone 1&2 of Gas Groups IIA/IIB atmospheres only.

- Report On (PROTOTYPE)

Your Ref. No.: FEPL/CMRI/APPLI-TT/0025/2005-06 Dated: 20/04/2006

Dear Sir,

Please find enclosed the Test Report (Prototype) of the above sample submitted by you.

Charges of **Rs. 23,335/- (Rupees Twenty Three thousand Three hundred & Thirty Five only)** including applicable service charges involved towards the testing /issuing the schedule have been adjusted against the advance deposit made by you.

Kindly arrange to collect the sample within 90 days from the date of receipt of this letter failing which CMRI would dispose off the sample by public auction without any further NOTICE to you.

Kindly acknowledge receipt.

Thanking you.

Yours faithfully,

(G. M. PRASAD)

**HEAD OF THE DEPARTMENT
TESTING CELL**

Encl: As above.
Test Report in Two copies.
Copy to: 1. Head, Flame & Explosion Lab.
2. Bill Section.

फोन-निदेशक Director
Ph.: 0091-326-2202326/2203043

प्री एन एक्स PAX

Ph.: 0091-326-2203010/2203070/2203090/2205045/2209041

फैक्स FAX

0091-326-2202429/2204339/2203156

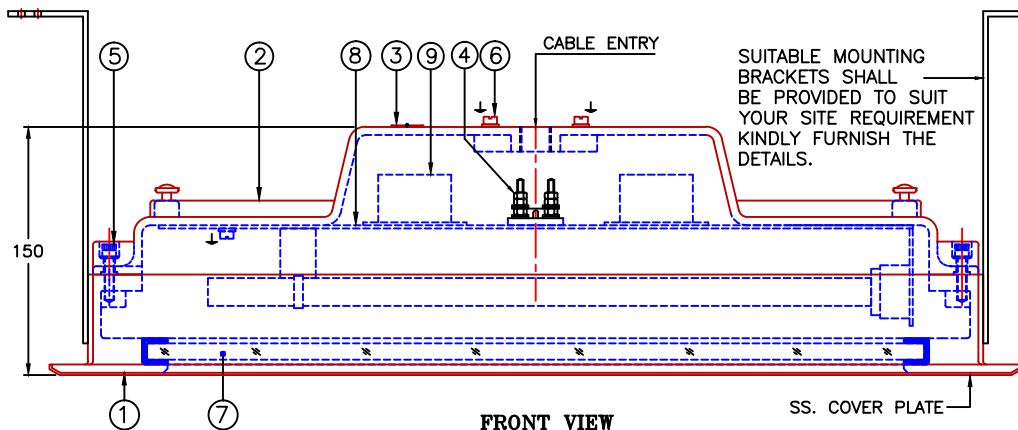
e-mail : dcmrips@yahoo.co.in, dcmri@csir.res.in • Website : www.cmriindia.org

कार्यालय के दिन : सोमवार से शुक्रवार तक Working days : Monday to Friday

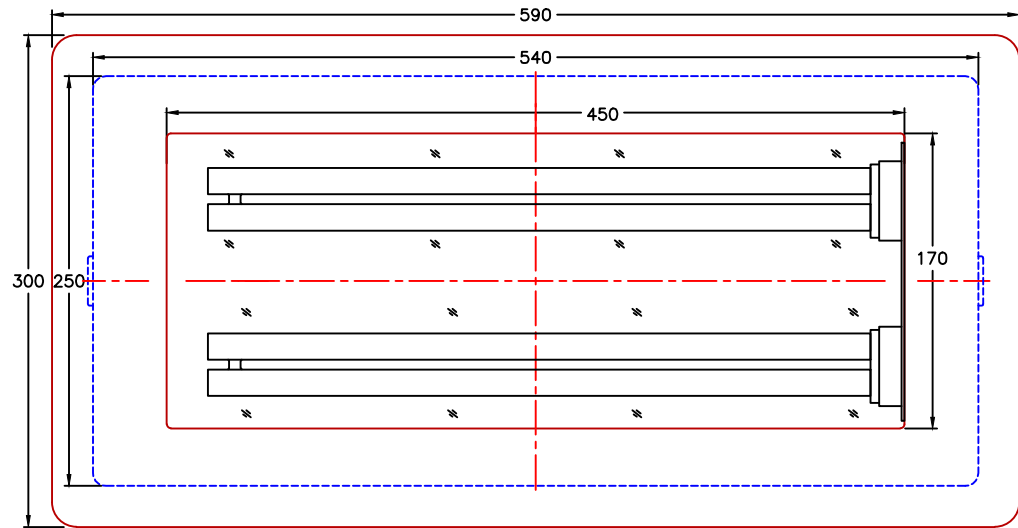
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F L E X P R O

NO.	REVISION	DATE	CKD.BY	APPR.BY



FRONT VIEW

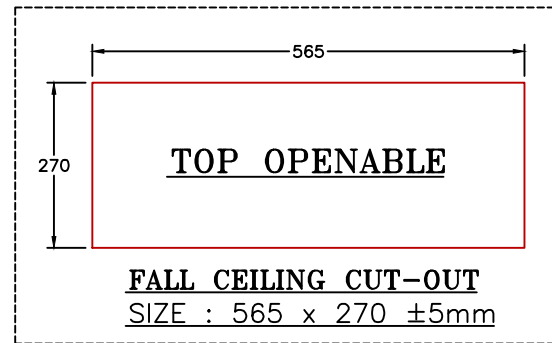


BOTTOM VIEW

TECHNICAL DATA :-

- CONSTRUCTION : CAST ALUMINIUM ALLOY LM-6.
- TYPE OF ENCLOSURE : Ex-d, ZONE - I/II.
- AREA CLASSIFICATION : GAS GROUP IIA/ IIB.
- PROTECTION : IP-55.
- RATING : SUITABLE FOR 2 x 36W. CFL LAMP AT 240V. AC.
- TRANSPARENT PART : CLEAR TOUGHENED TYPE "A" GLASS DOME.
- INTERNAL REFLECTOR : ALUMINIUM ANODISED (MIRROR OPTICS).
- HOLDER : 4-PIN TYPE.
- BALLAST : 2 x 36W. CFL ELECTRONIC BALLAST.
- TERMINALS : STUD TYPE.
- CABLE ENTRY : AS PER CLIENT REQUIREMENTS.
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SPECIAL NOTE: PURCHASER OR THEIR CONSULTANT TO PROVIDE CABLE DIMENSIONS (LIKE O.D., φU.A. & φO.A), AT THE TIME OF APPROVING THIS DRAWING.



F L E X P R O

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ACAD FILE NO.: MFCFL-T-2x36-IEC

SR.NO.	DESCRIPTION	QTY.	MATL. & SIZE
9	BALLAST/CHOKE	2	ELECTRONIC/CONVENTIONAL
8	REFLECTOR	1	AL. ANODISED
7	GLASS (TOUGHENED TYPE-A)	1	FLAT GLASS
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5	ALLEN CAP SCREW & SP.WASHER	12	M6 x 30
4	CONNECTOR BLOCK	1	BRASS & DMC
3	DETAILED LABEL CUM WARNING PLATE	1	SS.
2	COVER	1	AL. LM-6
1	MAIN ENCLOSURE	1	AL. LM-6

CAT. NO.	MFCFL/T/2x36-IEC
CERT. NO.	CMRI CMRI/TC/P/H426 CCOE/PESO A/P/HQ/MH/104/1297 (P191207) BIS CM/L-0708044

DRG. NAME: Ex'd/IIA&IIB/IP-55		MFG. BY	
FLP/WP. FLUORESCENT LIGHT FIXTURE FOR CLEAN ROON APPLI (TOP OPENABLE)		F L E X P R O	
CLIENT	DGN. BY SHP	IS. REF.:	IS: 2148 IS: 13346 IS: 12063 FOR IP 55 OF PROTECTION.
CONSULTANT	CKD. BY AMP	INDENT NO.:	
PROJECT	APPR. BY PAM	DRG. NO.:	MFCFL/T/2x36/06
ITEM NO.	DATE 20.04.06	SCALE N.T.S	
QTY.	GROUP IIA&IIB	Sheet No.	01
ENQ. NO.			

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केन्द्रीय खनन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)

बरवा रोड, धनबाद - 826001, झारखण्ड, भारत



Central Mining Research Institute

(Council of Scientific & Industrial Research)

BARWA ROAD, DHANBAD-826001, JHARKHAND, INDIA

REGISTERED POST/COURIER SERVICE

No. CMRI/TC/P/H426
Equipment ID NO. 186/06

Dated: 1st September, 2006
Code No. FLP/17B/06

To,
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GIDC, KABILPORE,
NAVSARI - 396424 (GUJARAT)

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Your Ref. No.: FEPL/CMRI/APPLI-TT/0024/2005-06 Dated: 20/04/2006

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(G. M. PRASAD)

**HEAD OF THE DEPARTMENT
TESTING CELL**

Encl: As above.

Test Report in Two copies.

Copy to: 1. Head, Flame & Explosion Lab.
2. Bill Section.

फोन-निदेशक Director
Ph.: 0091-326-2202326/2203043

पी० ए० एक्स PAX
Ph.: 0091-326-2203010/2203070/2203090/2205045/2209041

फैक्स FAX
0091-326-2202429/2204339/2203156

e-mail : dcmrips@yahoo.co.in, dcmri@csir.res.in • Website : www.cmriindia.org

कार्यालय के दिन : सोमवार से शुक्रवार तक Working days : Monday to Friday