



CERTIFICATE NUMBER	21-2190979-PDA
EFFECTIVE DATE	01-Feb-2022
EXPIRY DATE	31-Jan-2027
ABS TECHNICAL OFFICE	Houston ESD - Offshore Equipment

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

PRATLEY MANUFACTURING (PTY) LTD.

located at

P.O. BOX 3055, KENMAR, South Africa, 1745

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Electrical, Junction Box
Model: Ezee-fit Box No 1, 2, 3, 4
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 31/Jan/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Sohail A. Mohammed

Sohail Ahmed Mohammed, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

PRATLEY MANUFACTURING (PTY) LTD.

P.O. BOX 3055

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Email: exports@pratley.com

Web: www.pratley.com

Tier: 2 - PDA Issued

Product: Electrical, Junction Box

Model: Ezee-fit Box No 1, 2, 3, 4

Endorsements:

Intended Service:

Marine & Offshore Applications.

Description:

Ex e Junction Box

Rating:

Ex eb I Mb, Ex eb IIC T* Gb, Ex tb IIIC T* Db; IP66/68; -20°C to 55°C. See IECEx Certificates IECEx ICS 20.0031X for more details and Service Restriction.

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

(1) Junction boxes are not to be used for propulsion cables as indicated MVR 4-8-4/21.25.

(2) Restricted to those areas/spaces where type Ex "e" as indicated on MVR 4-8-3/13.3.3 and 4-8-4/27.5.1.

(3) Enclosure is suitable for IP66/68 (2m continuous) as indicated on IECEx Certificates IECEx ICS 20.0031X.

(4) All electrical equipment intended for installation in hazardous areas are to be certified safe type based on the class of the hazardous area at its location of installation. Certificates in this regard are to be presented to ABS Surveyor for verification on a case basis.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

(1) Junction boxes to be installed in accordance with 4-8-4/21.1.1, 4-8-4/21.25 of the Rules for Building and Classing Marine Vessels 2022 and 4-3-3/9.1.3 of the Rules for Building and Classing Mobile Offshore Units 2022.

(2) Installation in hazardous areas is to comply with 4-8-4/27.5 of the Rules for Building and Classing Marine Vessels 2022 and 4-3-3/9.1.2 of the Rules for Building and Classing Mobile Offshore Units 2022.

(3) Please refer to manufacturer instruction manual for equipment cleaning, to prevent static charge build up.

Notes/Drawing/Documentation:

Drawing No. IECEx ICS 20.0031X, IECEx Certificate of Conformity, Revision: 0, Pages: 5

Drawing No. 56022 DA, EZEE-FIT BOX No 0 DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1

Drawing No. 56025 DA, EZEE-FIT BOX No 1 DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1

Drawing No. 56028 DA, EZEE-FIT BOX No 2 DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1

Drawing No. 56031 DA, EZEE-FIT BOX No 3 DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1

Drawing No. 56034 DA, EZEE-FIT BOX No 4 DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1

Drawing No. 1030, EZEE-FIT BODY No 0 X 3 Y-TYPE, Revision: E, Pages: 1

Drawing No. 1079, EZEE-FIT BOX EARTH HARNESS No 3 X 2, 3 & 4 WAY, Revision: A, Pages: 1

Drawing No. 1082, EZEE-FIT BOX EARTH HARNESS No 4 X 2, 3 & 4 WAY, Revision: A, Pages: 1

Drawing No. 1300, EZEE-FIT BOX BODY No 1 X 2, 3 & 4 WAY, Revision: D, Pages: 1

Drawing No. 1303, EZEE-FIT BOX BODY No 2 X 2, 3, 4 WAY, Revision: D, Pages: 1

Drawing No. 1306, EZEE-FIT BOX BODY No 1 X 4 H-TYPE, Revision: A, Pages: 1

Drawing No. 1312, EZEE-FIT BOX BODY No 1 X 3 Y-TYPE, Revision: A, Pages: 1

Drawing No. 1313, EZEE-FIT BOX BODY No 2 X 3 WAY Y-TYPE, Revision: E, Pages: 1

Drawing No. 1316, EZEE-FIT BOX EARTH HARNESS No 1 X 2, 3 & 4 WAY, Revision: A, Pages: 1

Drawing No. 1319, EZEE-FIT BOX EARTH HARNESS No 2 X 2, 3 & 4 WAY, Revision: A, Pages: 1

Drawing No. 1382, EZEE-FIT BOX EARTH HARNESS No 0 X 2, 3 & 4 WAY, Revision: A, Pages: 1

Drawing No. 1404, EZEE-FIT BOX BODY No 2 X 4 H-TYPE, Revision: B, Pages: 1

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Drawing No. 1406, EZEE-FIT BOX BODY No 0 X 2, 3 & 4 WAY, Revision: C, Pages: 1
Drawing No. 1409, EZEE-FIT BOX BODY No 3 X 2,3 & 4 WAY, Revision: C, Pages: 1
Drawing No. 1412, EZEE-FIT BOX BODY No 3 X 3 WAY Y-TPE, Revision: C, Pages: 1
Drawing No. 1413, EZEE-FIT BOX BODY No 4 X 2, 3 & 4 WAY, Revision: C, Pages: 1
Drawing No. 2028, COMPRESSION NUTS FOR EZEE-FIT BOXES, Revision: E, Pages: 1
Drawing No. 2110, WASHER FOR E/F COMP. CONVERSION KIT, Revision: D, Pages: 1
Drawing No. 2252, GASKET FOR No 0 EZEE-FIT COVER, Revision: D, Pages: 1
Drawing No. 2253, GASKET FOR No 1 EZEE-FIT COVER, Revision: D, Pages: 1
Drawing No. 2254, GASKET FOR No 2 EZEE-FIT COVER, Revision: D, Pages: 1
Drawing No. 2255, GASKET FOR No 3 EZEE-FIT COVER, Revision: C, Pages: 1
Drawing No. 2256, GASKET FOR No 4 EZEE-FIT COVER, Revision: B, Pages: 1
Drawing No. 2259, INNER SEALS FOR STANDARD GLANDS AND ENVIRO GLANDS, Revision: C, Pages: 1
Drawing No. 2340, INSERTS FOR EZEE-FIT BOXES, Revision: C, Pages: 1
Drawing No. 2370, DMC LID FOR No 0 EZEE - FIT BOX, Revision: F, Pages: 1
Drawing No. 2371, LIDS FOR No 1 Ex e/n BOXES, Revision: E, Pages: 1
Drawing No. 2497, DOMED DMC EZEE-FIT Exe/STD LID No 0, Revision: A, Pages: 1
Drawing No. 2498, DOMED DMC EZEE-FIT LID No 1, Revision: A, Pages: 1
Drawing No. 2721, TERMINAL RAIL N35, Revision: B, Pages: 1
Drawing No. 2857, NYLON INSERT FOR COVER SCREWS ON EZEE-FIT BOXES, Revision: C, Pages: 1
Drawing No. 2898, No 1 EZEE-FIT TAPER REDUCING WASHER 1Rxs, Revision: A, Pages: 1
Drawing No. 2939, SKIDWASHER FOR EXE COMP. GLD No 0S - 5, Revision: A, Pages: 1
Drawing No. 2964, POLYCARBONATE LID FOR EZEE-FIT BOX No 2, Revision: A, Pages: 1
Drawing No. 2991, POLYCARBONATE LIDS FOR EZEE-FIT BOXES No 0 & No 1, Revision: A, Pages: 1
Drawing No. 2991 MD, EZEE-FIT LID GENERAL MARKING DETAIL, Revision: A, Pages: 1
Drawing No. 2992, POLYCARBONATE LIDS FOR EZEE-FIT BOXES No 3 & No 4, Revision: A, Pages: 1
Drawing No. 3076, E/F COMPRESSION-CONVERSION TAPER BUSHES, Revision: A, Pages: 1
Drawing No. 3135, CONE BUSH FOR FLP, EZEE-FIT & ENVIRO GLAND, Revision: 1, Pages: 1
Drawing No. 3145, COMPRESSION RINGS FOR FLP & EZEE-FIT GLANDS, Revision: F, Pages: 1
Drawing No. 3418, DMC LIDS FOR EZEE-FIT BOXES No 2 - No 4, Revision: A, Pages: 1
Drawing No. 3501, RETAINING WASHER FOR COMPRESSION KIT, Revision: B, Pages: 1
Drawing No. 4079 MD, KWIK-BLOK TERMINAL MARKING DETAIL, Revision: A, Pages: 1
Drawing No. 57050 DA, EZEE-FIT BOX GLAND PARTS FOR ARMoured CABLE, Revision: A, Pages: 1
Drawing No. 57800 DA, TUFFLON BLANKING PLUG DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1
Drawing No. 58100 DA, EZEE-FIT REDUCING GLAND KIT DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1
Drawing No. 61080 DA, EZEE-FIT BRASS BLANKING PLUG DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1
Drawing No. 62000 DA, EZEE-FIT BOX COMPRESSION CONV. KITS, DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1
Drawing No. 8154, O-RING RMT-12X2-EP, Revision: A, Pages: 1
Drawing No. 8517, M5 STAINLESS WASHER, Revision: A, Pages: 1
Drawing No. 8518, SS WASHER M6, Revision: A, Pages: 1
Drawing No. 8546, LID FIXING SCREWS FOR E/F BOXES NO, 3 & 4, Revision: A, Pages: 1
Drawing No. 8574, M8 BRASS WASHER, Revision: A, Pages: 1
Drawing No. 8645, EARTH STUD SUB-ASSEMBLY, Revision: C, Pages: 1
Drawing No. 8653, M4 BRASS CHEESE HEAD SCREW 10 LONG, Revision: A, Pages: 1
Drawing No. 8655, M4 EXTERNAL STAR WASHER, Revision: A, Pages: 1
Drawing No. 8657, M4 BRASS WASHER, Revision: A, Pages: 1
Drawing No. 8658, EARTH TERMINAL FOR No 0,1,2,3 & 4 EZEE-FIT BOXES, Revision: A, Pages: 1
Drawing No. 8662, M8 X 12 LONG BRASS CHEESE HEAD SCREW, Revision: A, Pages: 1
Drawing No. 8664, M8 STEEL STAR WASHER EXTERNAL, Revision: A, Pages: 1
Drawing No. 8679, LID FIXING SCREW FOR EZEE FOT BOXES NO, 0, 1 & 2, Revision: A, Pages: 1
Drawing No. 9240, FITTING INSTRUCTIONS FOR PRATLEY Ex e EZEE-FIT CABLE BOXES, Revision: A, Pages: 1

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Drawing No. EXA 0005, EZEE-FIT BOX RANGE DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1
Drawing No. EXA 0006.1, EXTERNAL EARTH LOCATION EZEE-FIT I, T & X, No 0-4, Revision: A, Pages: 1
Drawing No. EXA 0006.2, EXTERNAL EARTH LOCATION EZEE-FIT Y-TYPE, No 1-3, Revision: A, Pages: 1
Drawing No. EXA 0006.3, EXTERNAL EARTH LOCATION EZEE-FIT H-TYPE, No 1 & 2, Revision: A, Pages: 1
Drawing No. EXA 0006.4, EXTERNAL EARTH LOCATION EZEE-FIT Y-TYPE, No 0, Revision: A, Pages: 1
Drawing No. EXA 0007, Ex e KWIK-BLOK DESCRIPTIVE ARRANGEMENT, Revision: A, Pages: 1
Drawing No. Ezee-fit LSOH FTC 14.115, LSOH Certificate, Revision: 1, Pages: 6

Terms of Validity:

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STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1 - 2022, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:
Marine Vessel Rules: 4-8-4/21.1.1, 4-8-4/21.25, 4-8-4/27.5.1, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/9.21, 4-8-3/13

Rules for Conditions of Classification, Part 1 - 2022 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:
Mobile Offshore Unit Rules: 4-3-3/5.25.2, 4-3-3/9.1.3, 4-3-3/9.1.2, 6-1-7/13.7.2, 4-3-1/11, 4-3-1/15, 4-3-3/3.1.1(a), 4-1-1/7.9, 6-1-1/9, 6-1-1/13.

National:

NA

International:

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements Edition:7.0
IEC 60079-31:2022 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" Edition:3.0
IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e" Edition:5.1

Government:

NA

EUMED:

NA

OTHERS:

NA