

# Certificate of Compliance

**Certificate:** 1248014 (LR 106084-2)

**Master Contract:** 185887

**Project:** 1248014 (Edition 4)

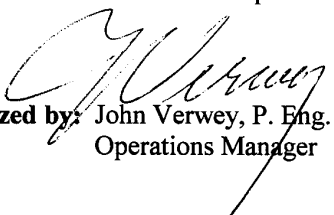
**Date Issued:** October 22, 2001

**Issued to:** Redapt Engineering Company Ltd.  
Units 46 & 47 Darlaston Central Trading Estate  
Salisbury Street, Darlaston  
West Midlands, WS10 8XB  
UNITED KINGDOM

*The products listed below are eligible to bear the CSA Mark shown  
with adjacent indicators 'C' and 'US'*



  
**Issued by:** Tho Nguyen, C.E.T.  
Certification Specialist

  
**Authorized by:** John Verwey, P. Eng.  
Operations Manager

**CLASS**

- 4418 02 - OUTLET BOXES AND FITTINGS Boxes - For Hazardous Locations
- 4418 82 - OUTLET BOXES AND FITTINGS Boxes - For Hazardous Locations - Certified to US Standards
- 4418 03 -CONDUIT FITTINGS - Fittings for Metal Conduit - For Hazardous Locations
- 4418 83 -CONDUIT FITTINGS - Fittings for Metal Conduit - For Hazardous Locations - Certified to US Standards

**PRODUCTS**

**Ex de I & IIC IP66/67/68 Class I Zone 1 & 2 Groups A, B, C & D.**

**Class I, Division 1 & 2; Groups A, B, C & D; Class II, Groups E, F & G; Class III; CSA Enclosure Type 4X/6P**

- A range of Adaptors Model Number AD U x x xx xx
- A range of Reducers Model Number RD U x x xx xx
- A range of Stopping Plugs Model Number PD U x x xx xx

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognised to perform certification to U.S. Standards



**Certificate:** 1248014

**Master Contract:** 185887

**Project:** 1248014

**Date:** October 22, 2001

**Ex d IIC; IP54; Class I, Zone 1 & 2 Groups A, B, C & D.**

**Class I, Division 1 & 2, Groups A, B, C & D; Class II, Groups E, F & G; Class III; CSA Enclosure Type 3**

A range of Adaptors Model Number AD D x x xx xx

A range of 90° Adaptors Model Number AR D x x xx xx

A range of Male to Male Adaptors model Number AM D x x xx xx

A range of Reducers Model Number RD D x x xx xx

A range of Insulated Adaptors Model Number AI D x x xx xx (Not Class I, Division 1)

A range of Unions Model Number UN D x x xx xx, UF D x x xx xx

A range of Stopping Plugs Model Number PAD x x xx xx, PB D x x xx xx

**Ex e II IP66/67/68 Class I, Zone 1 & 2, Groups A, B, C & D.**

**Class I Division 2, Groups A, B, C & D; Class II, Groups E, F & G, Class III; CSA Enclosure Type 4X/6P**

A range of Adaptors Model Number AD E 4 x xx xx

A range of Reducers Model Number RD E 4 x xx xx

A range of Stopping Plugs Model Number PD E 4 x xx xx

A range of Stopping Plugs Model Number PD E x x xx xx

**Ex e II IP54 Class I, Zone 1 & 2, Groups A, B, C & D.**

**Class I Division 1 & 2, Groups A, B, C & D; Class II, Groups E, F & G; Class III; CSA Enclosure Type 3**

A range of Adaptors Model Number AD E x x xx xx

A range of Reducers Model Number RD E x x xx xx

A range of Earth Lead Adaptors Model Number AE E x x xx xx

A range of stopping Plugs Model Number PH E x x xx xx

Thread-forms include Metric Conduit, Imperial Conduit (ET), PG, NPT, NPS, BSPP and BSPT. Sizes vary with model up to 150 mm Metric Conduit.

Thread sizes are designated within the model nomenclature xx x x x **XX** (Male Thread) **XX** (Female Thread).

Brass Components are xx x 1 x xx xx

Mild Steel Components are xx x 2 x xx xx

Stainless Steel Components are xx x 3 x xx xx

Glass Filled Nylon (Durethan)\*\* Components are xx x 4 x xx xx (Not suitable for Class I Div 1 Locations)

Aluminum Components are xx x 5 x xx xx

Plating Options are Electro Nickel xx x x 1 xx xx, Zinc xx x x 2 xx xx, Cadmium xx x x 3 xx xx, Zinc Passivated xx x x 4 xx xx, Chromatised xx x x 6 xx xx, Electroless Nickel xx x x 8 xx xx, Anodised xx x x 9 xx xx, Black Anodised xx x x A xx xx.



**Certificate:** 1248014  
**Project:** 1248014

**Master Contract:** 185887  
**Date:** October 22, 2001

Note

1. The Descriptive and Test Report has the full Model nomenclature.
- \*\*2. Glass Filled Nylon (Durethan) and Aluminium Models are not suitable for Group I use.
- \*\*3. Glass Filled Nylon (Durethan) Models are not suitable for Class I, Division 1 Locations.
- \*\*4. Glass Filled Nylon (Durethan) Models are for Ex e installation and Non-Hazardous applications only, and may only be used in metal applications if provided with a thru-hole and proper locknut.

**APPLICABLE REQUIREMENTS**

The following standards were used as a guide in the evaluation of the products covered by this report.

0.6-M1982	-	Flammability Testing of Polymeric Materials
CAN/CSA E79-0-95	-	Electrical apparatus for explosive gas atmospheres. PART 0: General requirements.
E79-1-95	-	Electrical apparatus for explosive gas atmospheres. PART 1: Construction and verification test of flameproof enclosures of electrical apparatus.
E79-7-90	-	Electrical apparatus for explosive gas atmospheres. Increased safety "e".

Technical Information Letter TIL E-24 -Clarification of Marking Requirements for Electrical Equipment Certified to the requirements of IEC 79 Series Standards, C22.2 Series Standards or both.

E 1241	-	Electrical apparatus for use in the presence of combustible dust.
UL Standard 886	-	Outlet Boxes and Fitting for Use in Hazardous Locations
UL Standard 94	-	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.



## Supplement to Certificate of Compliance

**Certificate:** 1248014 (LR106084)

**Master Contract:** 185887

*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

---

Project	Date	Description
-2	June 5, 1997	Original Certification for the series of Stopping Plugs, Reducers and Adapters.
-3	Nov. 17, 1997	Update and clarification of marking in the -2 report.
-4	June 15, 1998	Update to the nylon (Durethan) models to NRTL/C
1248014	Oct. 22, 2001	Supersedes LR 106084-2 to include new Test Reports, new drawings, product variation and marking clarification to -2 report.