

# (1) EC-TYPE EXAMINATION CERTIFICATE



(2) Equipment and Protective Systems intended for use in  
Potentially Explosive Atmosphere - **Directive 94/9/EC**

(3) EC-Type-Examination Certificate Number

## TÜV 12 ATEX 7193 U

(4) Equipment: **Enclosure, LTB\***  
(5) Manufacturer: **Shomal Engineering & Manufacturing (Pirooz) Ltd.**  
(6) Address: **C2 Ave., Salmanshahr Industrial Park, Salmanshahr, Mazandaran  
Iran**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Rheinland Notified Body for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex193.00/12

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0: 2009**

**EN 60079-7: 2007**

**EN 60079-31:2009**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

**II 2 G**      **Ex e IIC Gb**  
 **II 2 D**      **Ex tb IIC Db**

TÜV Rheinland Certification Body for explosion protected equipment

Cologne, 14<sup>th</sup> October 2013

Dipl.-Ing. Klaus Peter Graff



(Translation)

This EC-Type-Examination Certificate without signature and stamp shall not be valid.

It may be circulated only without alteration.

Extracts or alterations are subject to approval by the:

TÜV Zertifizierungsstelle für Ex-Schutz-Produkte

TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln

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Precisely Right.

(13) Annex

(14) **EC - Type Examination Certificate**  
**TÜV 12 ATEX 7193 U**

(15) Description of equipment:

15.1 Equipment and type:

Enclosure, LTB\*

LTB\* where "\*" is a space holder for following types:

120	220	260
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**Type designation**

The enclosures differ in size.

15.2 Description

Increased safety enclosures and combustible dust protected enclosure in Aluminium Alloy material. In three sizes.

15.3 Technical Data

Service temperature  $T_s = -30^\circ\text{C}$  to  $+85^\circ\text{C}$

LTB	L [mm]	W [mm]	H [mm]
120	120	122	82
220	220	122	82
260	260	160	91

**Size**

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(16) Test Report No.

557/Ex 193.00/12

(17) Special Conditions for safe use / Remarks for safe usage:


1. Suitable certified cable glands or blanking elements, that sustain the type of protection and IP66, must be used.
2. If used with other devices, a temperature rise test has to be performed. The wiring must be considered in respect of the heat resistance of the insulation.


(18) Basic Safety and Health Requirements

Fulfilled by the afore mentioned standards.

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Cologne, 14<sup>th</sup> October 2013

  
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