



**Physical-Technical Testing Institute
Ostrava - Radvanice**



(1) Supplementary EU - Type Examination Certificate No.4

- (2) **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

- (3) EU - Type Examination Certificate number:

FTZÚ 07 ATEX 0134U

- (4) Product: **Connection head type XD-JBB, XD-JBBwin, XD-JBA, XD-JBAwin,
XD-JBAL, XD-JBALwin**

- (5) Manufacturer: **Limatherm, S.A.**

- (6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

- (7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 07 ATEX 0134U to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014

The sign „U“ is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

- (11) The marking of the product shall include the following:



**II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db**

- (12) This certificate is valid till: **31.08.2027**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 19.08.2022

Page: 1/3

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Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz



**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 4
to FTZÚ 07 ATEX 0134U**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standard EN IEC 60079-0:2018;
- Extension of certificate validity.

The connection head type XD-JBB, XD-JBBwin, XD-JBA, XD-JBAwin, XD-JBAL, XD-JBALwin is verified according to the newest standard EN IEC 60079-0:2018.

The design of flameproof enclosure is remains unchanged.

(16) Report Number: 07/0134/4

(17) Schedule of Limitations:

1. Service temperature range for type of housing and used sealing ring:
 - 40°C to +100°C for XD-JBB; XD-JBA; XD-JBAL (O-ring VMQ)
 - 40°C to +85°C for XD-JBBwin; XD-JBAwin; XD-JBALwin (O-ring VMQ)
 - 20°C to +200°C for XD-JBB; XD-JBA; XD-JBAL (O-ring FKM)
 - 20°C to +85°C for XD-JBBwin; XD-JBAwin; XD-JBALwin (O-ring FKM).
2. The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:
 - a) XD-JBB; XD-JBA; XD-JBAL from -40°C to +200°C;
 - b) XD-JBBwin; XD-JBAwin; XD-JBALwin from -40°C to +85°C.
3. Max. numbers of holes, their size and position are given in Application manual number N-L3767.
4. Devices installed inside of enclosure can have any lay-out, which ensures, that in any cross-section area will be least 40% (group IIC) of area free.
5. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
6. Appropriate certify cable glands and blanking elements for direct entry have to be used.
7. The empty enclosure must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
8. It is not allowed to install circuit breaker or contactors with oil filling and rotating apparatus producing turbulence inside of the enclosure.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 19.08.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice

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Schedule

(14) **Supplementary EU - Type Examination Certificate No. 4
to FTZÚ 07 ATEX 0134U**

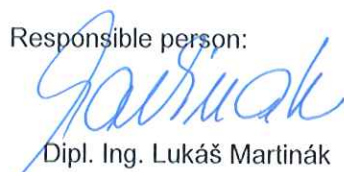
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
N-L3767	--	6	28.02.2022	Application manual
--	--	2	24.02.2022	Data sheet XD-JBA
--	--	2	24.02.2022	Data sheet XD-JBB
2-Z-L3952	c	1	23.02.2022	Drawing XD-JBA
2-Z-L3953	c	1	23.02.2022	Drawing XD-JBAwin
2-Z-L3955	c	1	23.02.2022	Drawing XD-JBAL
2-Z-L3956	c	1	23.02.2022	Drawing XD-JBALwin
2-Z-L3758	c	1	23.02.2022	Drawing XD-JBB
2-Z-L3759	c	1	23.02.2022	Drawing XD-JBBwin

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 19.08.2022

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(1) **Supplementary EU - Type Examination Certificate No.3**

- (2) **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

- (3) EU - Type Examination Certificate number:

FTZÚ 07 ATEX 0134U

- (4) Product: **Connection head type XD-JBB, XD-JBBwin, XD-JBA, XD-JBAwin, XD-JBAL, XD-JBALwin**
- (5) Manufacturer: **Limatherm, S.A.**
- (6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**
- (7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 07 ATEX 0134U to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014
- (11) The marking of the product shall include the following:

 **II 2G Ex db IIC Gb**

 **II 2D Ex tb IIIC Db**

- (12) This certificate is valid till: **31.08.2022**

Responsible person:

L. Z. J.

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.08.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

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Schedule

(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 07 ATEX 0134U**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standards;
- Prolongation of certificate validity.

The connection head type XD-JBB, XD-JBBwin, XD-JBA, XD-JBAwin, XD-JBAL, XD-JBALwin is verified according to the standards EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-31:2014.

The design of flameproof enclosure is without changes.

(16) Report Number.: 07/0134/3

(17) Schedule of Limitations:

1. Max. number, size and position of apertures – are given in Application manual N-L3767 dated 12.06.2017.
2. For information on the dimensions of the thread flameproof joints the manufacturer shall be contacted.
3. The enclosure with Ex component certificate shall be applied only by assumption of filling requests of the standard IEC 60079-1:2014 cl. D.3.10.
4. Apparatus installed inside of enclosure can has any lay-out, which ensures, that in any cross-section area will be least 40% (group IIC) of area free.
5. Appropriate certify cable glands for direct entry has to be used.
6. Service temperature according housing type and used sealing ring:

Housing type	Tserv.	
	VMQ rubber	FKM rubber
XD- JBB, XD-JBA, XD-JBAL	-40°C to +100°C	-20°C to +200°C
XD- JBBwin, XD-JBAwin, XD – JBALwin	-40°C to +85°C	-20°C to +85°C

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.08.2017

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 07 ATEX 0134U**

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
N-L3767	6	--	12.06.2017	Application manual
--	1	--	25.05.2017	Datasheet XD-JBB
--	1	--	25.05.2017	Datasheet XD-JBA
2-Z-L3758	1	b	08.06.2017	Drawing XD-JBB
2-Z-L3759	1	b	08.06.2017	Drawing XD-JBBwin
2-Z-L3952	1	b	08.06.2017	Drawing XD-JBA
2-Z-L3953	1	b	08.06.2017	Drawing XD-JBAwin
2-Z-L3955	1	b	08.06.2017	Drawing XD-JBAL
2-Z-L3956	1	b	08.06.2017	Drawing XD-JBALwin

Responsible person:

V. Z. J. J.
Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.08.2017

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(1) **Supplement No. 2 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 07 ATEX 0134U

(4) Component: **Connection head type XD-JBB, XD-JBBwin, XD-JBA, XD-JBAwin,
XD-JBAL, XD-JBALwin**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - modification of certified component
- verification according to new standards
- prolongation of certificate validity

(8) Modification of certified component and any of its approved variants are specified in documentation, a list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of following standards:

EN 60079-0:2009; EN 60079-1:2007; EN 60079-31:2009

(11) Marking of component shall contain symbols:

 **II 2G Ex d IIC Gb**

 **II 2D Ex tb IIIC Db**

(12) This type examination certificate is valid till: **31.08.2017**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 31.8. 2012

Number of pages: 2
Page: 1/2

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
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Physical Technical Testing Institute

Ostrava-Radvanice

(13)

Schedule

(14)

Supplement No. 2 to EC-Type Examination Certificate N° FTZÚ 07 ATEX 0134U

(15) Description of Component:

Modification of the Connection head consists of using M and NPT threads only and was changed the length from 13mm to 16,2mm for NPT thread. The rubber type FKM for service temperature from -20°C to +200°C and chain for gripping of cover were completed for next use.

The types of Connection head are recertified according to standards EN 60079-0:2009; EN 60079-1:2007 and EN 60079-31:2009.

(16) Report No. : 07/0134-D2

dated 30.08.2012

(17) The special conditions for safe use:

17.1 The special conditions described in main document and the supplement No. 1 is valid in whole range.

17.2 Max. number, size and position of apertures – see documentation – cl. (19) of this supplement;

17.3 The enclosure with Ex component certificate can be applicant only by assumption of filling requests of the standard EN 60079-1:2009 cl.D.3.10;

17.4 Service temperature according housing type and used sealing ring:

Housing type	Tserv.	
	VMQ rubber	FKM rubber
XD-JBB, XD-JBA, XD-JBAL	-40°C to +100°C	-20°C to +200°C
XD-JBBwin, XD-JBAwin, XD-JBALwin	-40°C to +85°C	-20°C to +85°C

(18) Essential Health and Safety Requirements:

Covered by standard mentioned in (10) of this supplement.

(19) LIST OF DOCUMENTATION

- Application manual No. N-L3767 dated 29.02.2012
- Drawings No: 2-Z-L3758 dated 01.03.2012 mod. a
- 2-Z-L3759 01.03.2012 mod. a
- 2-Z-L3952 01.03.2012 mod. a
- 2-Z-L3953 01.03.2012 mod. a
- 2-Z-L3955 01.03.2012 mod. a
- 2-Z-L3956 01.03.2012 mod. a
- Catalogue sheets for connection head: XD.JBB dated 01.03.2012
- XD-JBA 01.03.2012

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 31.08.2012

Number of pages: 2

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**Supplement No. 1 to
EC-Type Examination Certificate**

(1)

(2)

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 07 ATEX 0134U

(4) Component: **Connection head type XD-JBB, XD-JBBwin, XD-JBA, XD-JBAwin,
XD-JBAL, XD-JBALwin**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - new model (variant) – extension of series
- prolongation of certificate validity

(8) Modification of certified component and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of following standards:

EN 60079-0:2007

EN 60079-1:2004

EN 61241-0:2006

EN 61241-1:2004

(11) Marking of component shall contain symbols:

 **II 2GD Ex d tD IIC**

(12) This type examination certificate is valid till: **30.11. 2012**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: **08.11.2007**

Number of pages: 2
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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 07 ATEX 0134U**

(15) Description of Component:

The new model XD-JBA and XD-JBAwin has designed the opening D1 centric. The model XD-JBAL and XD-JBALwin has the opening D1 extended to the outside.

All the other dimensions are not changed.

(16) Report No. : 07/0134-D1

(17) Schedule of limitations:

All the conditions mentioned in the main document are valid in whole range.

(18) Essential Health and Safety Requirements:

Covered by standard mentioned in (10) of this supplement.

(19) LIST OF DOCUMENTATION

- Application manual No. N-L3767 dated 04.10.2007
- Drawings No.: 2-Z-L3952 02.10.2007
2-Z-L3953 02.10.2007
2-Z-L3955 02.10.2007
2-Z-L3956 02.10.2007
- Catalogue sheets for connection head: XD.JBA
XD-JBAwin
XD-JBAL
XD-JBALwin

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 08.11.2007

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Physical Technical Testing Institute
Ostrava-Radvanice



EC-Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 07 ATEX 0134U

(4) Component: **Model XD-JBB, XD-JBBwin, connection head**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

- (7) This Component and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

07/134 dated July 2007

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0:2007

EN 60079-1:2004

EN 61241-0:2006

EN 61241-1:2004

The sign „U” placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

- (10) This EC-TYPE EXAMINATION CERTIFICATE relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

- (11) The marking of the component shall include following:



II 2GD Ex d tD IIC

This EC-Type Examination Certificate is valid till: **31 July 2012**

Responsible person:

Šindler
Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 24 July 2007

Number of pages: 1/4

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 07 ATEX 0134U**

(15) Description of Component:

The XD-JBB and XD-JBBwin connecting head are designed to accommodate various electronics instruments or devices and electric power supply, electronics or mechanic indicators, status indicators, working in hazardous areas.

The housing and cover are made of Al alloy (Mg<6%). The cover is fixed with thread M85x2 6H/6g which made a flameproof joint.

The cover is eventually designed with a window. The cover is locked by a screw with hex socket.

The conduit openings D1, D2 are as follow: threaded holes: M20x1,5; M24x1,5; M25x1,5; M27x2; G1/2, BSP1/2; G3/4, BSP3/4; 1/2NPTmod and 3/4NPTmod.

The enclosure is coated by chemically resistant paint.

The unused holes can be blinded with a certified stopping plug.

The housing was tested with overpressure max 75 bar according to Standard EN 60079-1. No routine test is required when reference pressure of final assembly is not higher than 18,5 bars.

(16) Report No. : 07/0134

(17) Schedule of Limitations:

17.1 -40°C < Tserv > 100°C for connection head XD-JBB

17.2 -40°C < Tserv > 85°C for connection head XD-JBBwin

17.3 IP protection 66 ÷ 68 – is depend on applied cable gland (IP 68 for deep 1 m).

Max. power dissipation (W)				
T _{amb}	Temperature class T6 85°C	Pztr (W)	Temperature class T5 100°C	Pztr (W)
		For all variety of enclosures position horizontally/vertically		For all variety of enclosures position horizontally/vertically
40°C	Δ 0≤40 K	17,4 / 13,1	Δ 0≤55 K	24,0 / 18,0
55°C	Δ 0≤25 K	10,3 / 7,8	Δ 0≤40 K	17,4 / 13,1
70°C	Δ 0≤10 K	3,5 / 2,4	Δ 0≤25 K	10,3 / 7,8
85°C	N.A.	--	Δ 0≤10 K	3,5 / 2,4

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate.

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 24.07.2007

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 07 ATEX 0134U**

(19)

LIST OF DOCUMENTATION

- Application manual N-L3767 dated 23.04.2007
- Catalogue sheets: Ex d connection head type XD-JBB dated 04.2007
Ex d connection head type XD-JBBwin dated 04.2007
- Drawings N°: 2-Z-L3758 dated 16.04.2007
2-Z-L3759 dated 16.04.2007
- Aluminium specification
- Resistance of paint coatings to aggressive chemical agents and environment
- Earth terminals, protection terminals (ETN-4 a PTN-1.5)
- Seal rubber specification
- Taper threads for explosionproof/flameproof openings
- Silicone rubber specification R701/40-R701/80
- Silicone encapsulant "Sylgard 567" specification
- Condition for testing of in instrument housing of protection against continuous submersion in water
– IP 68 (h = 1 m)

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 24.07.2007

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Physical Technical Testing Institute
Ostrava-Radvanice

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Schedule

(15) EC-Type Examination Certificate N° FTZÚ 07 ATEX 0134U

(20)

TYPE KEY

XD – JBB(win) - 4	-	.. / ..	-	.. / ..	-	.. / ..	-
TYPE OF ENCLOSURE								
SYMBOL OF ELEMENTS / SEALS MATERIAL								
4 = N+S								
SYMBOL OF THREAD D ₂ M2 = M20x1,5 M24 = M24x1,5 M25 = M25x1,5 G2 = G ½, BSP ½ G3 = G ¾, BSP ¾ N2 = ½ NPTmod – modified ac. to OIT-17/03 N3 = ¾ NPTmod – modified ac. to OIT-17/03								
SYMBOL OF THREAD D ₁ M2 = M20x1,5 M24 = M24x1,5 M25 = M25x1,5 G2 = G ½, BSP ½ G3 = G ¾, BSP ¾ N2 = ½ NPTmod – modified ac. to OIT-17/03 N3 = ¾ NPTmod – modified ac. to OIT-17/03								
SYMBOL OF PAINT TYPE: P – POLYESTER POWDER ENAMEL; E – EPOXY POWDER ENAMEL; C – CREODUR; SE – SPRAY EPOXY; SPU – SPRAY POLYURETHANE (on SE layer)								
SYMBOL OF PAINT COLOUR al = ALU NATURAL COLOUR; yc = RAL 1007 – YELLOW-CHROMIC; ys = RAL 1003 – YELLOW-SIGNALLING; bs = RAL 5005 BLUE SIGNALLING; sb = RAL 5015 SKY-BLUE; sg = RAL 7032 SILICON-GREY; gr = RAL 7035 GREY; ag = RAL 9002 ASHEN GREY- WHITE; sh = RAL 9006 SHINE; gs = RAL 9007 GREY-SILVER; cw = RAL 9010 CREAM-WHITE (for more details see technical information)								

SAMPLE:

STANDARD: XD-JBB(win)-4-M2-M25-Pal



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