

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **Baseefa15ATEX0163X – Issue 7**
Number:

3.1 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 April 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 April 2016.

4 Product: **RGS and RGG range of multi cable transits**

5 Manufacturer **MCT Brattberg AB**

6 Address: **Karlskrona, SE 371-92, Sweden**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa15ATEX0163X to apply to product 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 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product 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.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. See Certificate History

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

Ex II 2 GD Ex eb IIC Gb Ex tb IIIC Db T_{amb} = -60°C to +70°C

SGS Fimko Oy Customer Reference No. **5909**

Project File No. **22/0303**

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Authorised Signatory for SGS Fimko Oy

13 **Schedule**

14 **Certificate Number Baseefa15ATEX0163X – Issue 7**

15 **Description of Product**

The RGS, RGB, RGG range of multi cable transits are intended for use with circular cables or circular metal pipes. The frames may be welded, cast in concrete or bolted to an enclosure or building wall. The transit frames are manufactured from metal having a right angle or flat bar form, with the material having a minimum tensile strength of 340 N/mm². The transit frames are of welded construction, which provides an aperture for the insertion of transit blocks to seal around the cables or pipes as above.

The RGS, RGB, RGG range of multi cable transits are assembled from the following:

- a) Frame variants as detailed in matrix drawing No 116009. Each of the frame variants as detailed in the matrix, may be welded together to form multiple rows and columns of frames, in addition these frames may be plated or surface treated to suit the application.
- b) Solid rubber insert blocks manufactured from Lycron A. These blocks range from 5mm to 120mm square, and are marked and designated 24x5/0 to 120/0.

A variation of the solid rubber Insert Blocks may also be manufactured to provide EMC protection.

- c) Insert blocks manufactured from Lycron A. These blocks have moulded semi-circular concave sections of fixed radius along their length, which when placed on top of each other form a square block of 15 to 120mm. The blocks have a central circular hole of fixed diameter, ranging from 4mm to 110mm depending on the block size, and when compressed form a seal around circular cables or pipes. These blocks together with their associated cables or pipes are assembled in rows inside the frame up to a specified height, with the block halves designated and marked 15/4 to 120/110.

A variation of the Insert Blocks may also be manufactured to provide EMC protection.

Optional insert block called an AddBlock. The AddBlock which is manufactured from Lycron A, comes in 11 different sizes and provides tear off wing inserts which are of varying thickness. The wing inserts are manufactured with locating ridges, which when inserted into the grooves of the main block provide 55 different cable and pipe dimensions ranging from 3.5mm to 69.5mm. The AddBlocks have the option of being fitted with 9 different sizes of plug, which allows for ease of modification to existing installations.

The manufacturer provides a variation to the AddBlock with E.M.C. capability as per the existing blocks.

- d) Metal stayplate, which is positioned inside the frame between each complete row of the rubber blocks. The stayplate is retained by lugs which allow it to slide in the frame as the insert blocks are compressed.
- e) Press wedge, which is fitted into position in a fully relaxed state and then tightened to the required torque via 2 x 8mm stainless steel Allen grub screws or 2 x stainless steel hexagon headed bolts, which then compress the insert blocks to seal the cables / pipes. A variation of the Press wedge may also be manufactured to provide EMC protection.

16 **Report Number**

See Certificate History

17 **Specific Conditions of Use**

- 1. These transits are suitable for use within an operating temperature range of -60°C to +70°C.
- 2. The blocks must be assembled using the manufacturer's supplied tallow lubricant which must be applied to all faces of the sealing blocks prior to assembly.
- 3. The transits are only for use with circular cables and circular pipes
- 4. The assembled frame and cables shall be left for a period of 48 hours prior to the installation being energised.

5. When the frame is used for increased safety or dust protection, the frame shall be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure using the specified EMI gasket as above.
6. The fasteners of all variants shall be torqued up to 20Nm.
7. Non-metallic surfaces shall be protected from electrostatic charging hazards.
8. Cables or pipes used with the block size range 120/92 to 120/110 shall be additionally clamped to ensure that pulling or twisting is not transmitted to any connections.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
1160011	1	B	28.06.2022	*PTG-120 HEX EMC Stainless ATEX/ IECEx
1160018	1	D	28.06.2022	*Insert Blocks EMC ATEX/ IECEx
1160017	1	C	28.06.2022	*Spare Block EMC ATEX/ IECEx
1160023	1	B	28.06.2022	*Spare Block EMC 120x5/0 ATEX/ IECEx
1160024	1	B	28.06.2022	*Spare Block EMC 120x10/0 ATEX/ IECEx
1160132	1	B	28.06.2022	*Plug ATEX/ IECEx
1160133	1	B	06.2022	*Addblock ATEX/ IECEx
1160134	1	B	06.2022	*Addblock EMC 20/4 – 20/8 ATEX/ IECEx
1160135	1	B	06.2022	*Addblock EMC ATEX/ IECEx
1190013	1	B	28.06.2022	*Insert Blocks EMC Module 15 ATEX/ IECEx

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
1070356	1	D	04/12/2015	Frames for ATEX and IECEx
1070357	1	D	26/10/2016	Insert Blocks 90 and 120 ATEX
1150422	1	B	04/12/2015	Insert blocks normal module ATEX
1150423	1	B	04/12/2015	Spare block
1150424	1	A	02/12/2015	Spare block 24 x 5/0 ATEX
1150425	1	A	02/12/2015	Spare block 12 x 10/0 ATEX
1150426	1	A	02/12/2015	Spare block Normal module ATEX
1150427	1	B	04/12/2015	Multiple frames ATEX and IECEx
1150428	1	B	04/12/2015	PTG-120 INSEX / Allen stainless ATEX
1130320	1	A	13/10/2015	Filling wedge PTG-120

Number	Sheet	Issue	Date	Description
1130321	1	A	13/10/2015	Front presswedge PTG
1130322	1	A	13/10/2015	Rear presswedge PTG
1130323	1	A	13/10/2015	Fitting or presswedge PTG
1130324	1	A	13/10/2015	Nut for front presswedge PTG
1130325	1	A	13/10/2015	Nut for rear presswedge PTG
1130327	1	A	13/10/2015	Lockplate
1130328	1	A	13/10/2015	Lockpin PTG
140643	1	D	24/03/2011	Spring
1140161	1	A	13/10/2015	Allen Screw
1150429	1	A	02/12/2015	PTG-120 UTV.SEXKANT / HEX stainless ATEX
1130326	1	A	13/10/2015	HEX Screw
1150435	1	B	04/12/2015	Stayplate with inlay ATEX
1160131	1	A	16/03/14	WRAP ATEX / IECEX
1160139	1	A	2016/03/17	PIN FOR EMC BLOCKS ATEX / IECEX
1160140	1	A	2016/03/17	EMC CONTACT SHEET INSERT TAB E20/4 & E20/5 TO ADDBLOCK EMC 20/4-8 ATEX / IECEX
1160141	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 20/4-8 ATEX / IECEX
1160142	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 20/9-13 ATEX / IECEX
1160143	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 30/14-18 ATEX / IECEX
1160144	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 30/19-23 ATEX / IECEX
1160145	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 40/24-28 ATEX / IECEX
1160146	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 40/29-33 ATEX / IECEX
1160147	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 60/32-38 ATEX / IECEX
1160148	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 60/39-43 ATEX / IECEX
1160149	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 60/44-48 ATEX / IECEX
1180068	1	B	2019-01-28	ATEX Marking
1190012	1	A	2019-01-19	INSERT BLOCKS MODULE 15 ATEX / IECEX
1200248	1	B	03.07.2020	PTG-60 insex/ Allen Stainless ATEX
1200249	1	B	03.07.2020	PTG-60 UTV Sexkant/ Hex stainless ATEX
1200250	1	A	24.06.2020	Stayplate 60 with inlay ATEX
1200251	1	A	26.06.2020	Frames for ATEX and IECEX approval
1150205	1	A	16.06.2016	Fyllnadskil/ Filling wedge PTG-60
1150431	1	C	01.10.2019	Label for MTC Brattberg ATEX/IECEX product with PTG

20 Certificate History

Certificate No.	Date	Comments
Baseefa15ATEX0163X	09 December 2015	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2012 +A11: 2013, EN 60079-7: 2007 and EN 60079-31: 2014. SGS Baseefa certification report GB/BAS/ExTR15.0249/00 refers. Re-issued 15 March 2016 to clarify that the assessment was to EN 60079-7: 2015.
Baseefa15ATEX0163X/1	13 June 2016	To allow the addition of an optional insert block called an AddBlock to the RGS and RGG Range of multicable transits. The AddBlock comes in 11 different sizes and provides tear off wing inserts which are of varying thickness. The wing inserts are manufactured with locating ridges, which when inserted into the furrows of the main block provide 55 different cable and pipe dimensions ranging from 3.5mm to 69.5mm. The AddBlocks have the option of being fitted with 9 different sizes of plug, which allows for ease of modification to existing installations, these AddBlocks are uniquely marked on the both faces with green identification. The manufacturer provides a variation to the AddBlock with E.M.C. capability as per the existing blocks, these are uniquely marked on the forward face with yellow identification and marked on the back face with green identification. SGS Baseefa certification report GB/BAS/ExTR16.0043/00 refers.
Baseefa15ATEX0163X/2	28 October 2016	To allow for an increase in diameter of the central circular hole of the 120 size insert block and 120 size EMC insert block, from the range 70mm to 90mm to the range 70mm to 110mm, in 2mm increments. Modification to product description. SGS Baseefa certification report GB/BAS/ExTR16.0311/00 refers.
Baseefa15ATEX0163X/3	13 March 2018	To allow the standard and E.M.C. blocks, to be optionally marked in black. SGS Baseefa certification report GB/BAS/ExTR18.0061/00 refers.
Baseefa15ATEX0163X/4	04 February 2019	To allow a size 15 module insert block, and EMC insert block, to the previously certified range. Modification of the product description. SGS Baseefa certification report GB/BAS/ExTR19.0028/00 refers.
Baseefa15ATEX0163X/5	21 July 2020	To assess the RGB, RGG and RGS Range of multi cable transits against the standard EN IEC 60079-0:2018. To allow the introduction of frame sizes 1, 3, 5 and 7 for the RGB, RGG and RGS range of frames. To allow a change to the notified body number as displayed on the certification label. SGS Baseefa certification report GB/BAS/ExTR20.0109/00 refers.
Baseefa15ATEX0163X/6	22 April 2021	To assess the RGB, RGG and RGS Range of multi cable transits against the standard EN IEC 60079-7:2015+A1:2018. SGS Baseefa certification report GB/BAS/ExTR21.0031/00 refers. This issue of the certificate incorporates previously issued primary and supplementary certificates into one certificate.
Baseefa15ATEX0163X Issue 7	9 September 2022	To assess a change to the markings on the end of the blocks. The assessment is covered by test report GB/BAS/ExTR22.0139/00

For drawings applicable to each issue, see original of that issue.