

# **EU-TYPE EXAMINATION**

# **CERTIFICATE**

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

**EU-Type Examination Certificate Number:** ITS18ATEX104171 Issue 02

Areamaster Generation 2 LED Luminaire, model: AMLGxyzwBUm 2. **Product:** 

Areamaster High Lumen (HL) LED Luminaire, model: AMLHxyzwBUm

Baymaster LED Luminaire, model: BLLpxyzwNBUm

Baymaster High Lumen (HL) LED luminaire, model: BHLpxyzwNBUm

Manufacturer: **Appleton Group LLC** 3.

4. Address: 9377 W Higgins Rd; Rosemont, IL 60018, USA

- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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 of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11, EN 60079-7:2015, EN 60079-28:2015, EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- 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.
- 10. The marking of the product shall include the following:

II 2 D Ex op is tb IIIC T85°C/T100°C Db (certain models only – see note)



-40°C ≤ Ta ≤ +65°C

IP 66/67

4th Spetember 2020 **Certification Officer:** Date:

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## 11. Description of Equipment or Protective System

The Areamaster Generation 2, Areamaster High Lumen (HL), Baymaster and the Baymaster High Lumen luminaires are made up of three main body parts, the driver housing, the LED array board(s) housing and the glass cover frame. The luminaires contain an IECEx certified LED driver (either 100W or 150W), LED array and AC/DC terminal blocks. Areamaster Generation 2/Baymaster models utilize 1 LED driver, while the Areamaster/Baymaster High Lumen (HL) models utilizes 2 LED drivers. Also, the Areamaster Generation 2/Baymaster model luminaires consist of 1 LED module, while the Areamaster/Baymaster High Lumen (HL) luminaires consist of 2 LED modules. The joints on the housing are sealed by a Silicone ring joined by vulcanization which is secured in position in a groove by RTV sealant or for the window an RTV (flexible one-piece Silicone bead) seal is secured in position using clips secured by screws.

The driver housing is comprised of a two-compartment construction, where construction one is the driver housing and compartment two is the integral wiring box. The driver housing is made from Cast Aluminum Alloy, provided with cooling fins on three of the external edges and across the top of the luminaire. The wiring compartment is supplied with two or three  $\frac{3}{4}$ -14 NPT threaded conduit entries (one or two sealed with a close-up plug). The cover to the wiring compartment is secured by four #8-32 x 7/8 cap pan head screws and sealed by a Silicone ring joined by vulcanization which is secured in position in a groove by RTV sealant. Inside the driver housing, the driver, wiring and terminal block(s) are secured by mechanical means.

The LED Array board housing is made from Cast Aluminum Alloy, with the external provided with cooling fins on three of the external edges. The array board housing is secured to the driver housing by four %-20 x 1-% cap hex head bolts and sealed by a Silicone ring joined by vulcanization which is secured in position in a groove by RTV sealant. Inside the array board housing, the LED array(s) is/are secured by mechanical means (via five or twelve 4-40 SS screws).

The glass cover frame is made from Cast Aluminum Alloy. The frame is fitted with either a clear or diffused (frosted) tempered low iron float glass lens, in either 174.24mm x 174.24mm or 231.14mm x 220.98mm size. The glass is secured with four #6-32 x  $\frac{1}{2}$  pan SS screws and clips. The glass is additionally sealed with RTV. The frame is secured to the array board housing by four  $\frac{1}{2}$ -20 x 1- $\frac{1}{2}$  cap hex head bolts and sealed by a Silicone ring joined by vulcanization which is secured in position in a groove by RTV sealant.

The only difference between the Areamaster Generation 2, Areamaster High Lumen, Baymaster, and the Baymaster High Lumen is the enclosure powder coating, where the Areamaster luminaires are bronze and Baymaster luminaires are gray in color.

- (L) II 2 D Ex op is the IIIC T85°C/T100°C Db rating pertains to the following LED luminaire constructions only:
  - Areamaster Gen 2/Baymaster with light engine (LED array) LLOMAFF-A3N201A (3000K-W), LLOMAFF-A3N602A (5000K-A), LLOMAFF-A3N202A (3000K-A), LLOMAFF-A3N601A (5000K-W), LLOMAFF-A3N601B (5000K-no optic), LLOMAFF-A3N604A (5000K-S), or LLOMAFF-A3N204A (3000K-S)

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 Areamaster/Baymaster LED High Lumen with light engine (LED array) LLOMAGA-A4N601B (5000K-no optic), LLOMAGA-A4N601A (5000K-W), LLOMAGA-A4N201A (3000K-W), LLOMAGA-A4N604A (5000K-S), or LLOMAGA-A4N204A (3000K-S)

Reference Intertek Test Report 103509278DAL-001 and partial IECEx ExTR GB/ITS/ExTR18.0032/00 for more information.

- Areamaster Gen 2/Baymaster with light engine (LED array) 59660049001 (5000K), 59660049002 (4000K), 59660049003 (3000K)
- Areamaster Gen 2/Baymaster with light engine (LED array) 59660047001 (5000K), 59660047002 (4000K), 59660047003 (3000K)
- Areamaster/Baymaster LED High Lumen with light engine (LED array) 59660048001 (5000K), 59660048002 (4000K), 59660048003 (3000K)
- Areamaster/Baymaster LED High Lumen with light engine (LED array) 59660046001 (5000K), 59660046002 (4000K), 59660046003 (3000K)

Reference Test Data within 103941167DAL-001 60079-28 checklist for more information.

The model nomenclature for the Areamaster and Baymaster LED luminaires is shown below:

model code breakdown for BLLpxyzbBU:  p = Pendant Mount (P = Quick Connect Pendant mount provided, Blank = no QC
·
Pendant mount)
<b>x</b> = Lumens (L6=9000 lumens, L7=15000 Lumens or L8=19000 Lumens)
y = Correlated Color Temperature – CCT (C=5000K, N=4000K or W=3000K)
z = Glass Type (G=Clear Glass or F=Frosted Glass)
<pre>w = Beam Pattern (A=Aisle(with optic), M=Medium(no optic), W=Wide(with optic)</pre>
m = Metric M20 adaptor option (M=M20 adaptor included)

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Areamaster High Lumen (HL) Model Series AMLHxyzwBUm LED luminaire	Baymaster High Lumen (HL) Model Series BHLxyzwNBUm LED luminaire	Areamaster AMLGxyzwBU
Model code breakdown for AMLHxyzwBU:	Model code breakdown for BHLpxyzwNBU:	Model code br
x = Lumens (L1=24000 lumens, L2=30000 Lumens or L3=38000 Lumens)	<ul><li>p = Pendant Mount (P = Quick Connect</li><li>Pendant mount provided, Blank = no QC</li><li>Pendant mount)</li></ul>	x = Lumens (L6 Lumens or L8=19000 Lu
y = Correlated Color Temperature – CCT (C=5000K, N=4000K or W=3000K)	x= Lumens (L1=24000 lumens, L2=30000 Lumens or L3=38000 Lumens)	y = Correlated (C=5000K or W
z = Glass Type (G=Clear Glass or F=Frosted Glass)	y = Correlated Color Temperature – CCT (C=5000K, N=4000K or W=3000K)	z = Glass Type Glass)
<pre>w = Beam Pattern (3=Very Narrow (with Optic) 5=Narrow (with Optic) 6=(no optic) 7=wide (with optic))</pre>	z = Glass Type (G=Clear Glass or F=Frosted Glass)	w = Beam Pa
m = Metric M20 adaptor option (M=M20 adaptor included)	<ul><li>w = Beam Pattern (W=Wide (with optic),</li><li>M=Medium(no optic), N=Narrow (with optic)</li><li>V=Very Narrow (with optic)</li></ul>	
	m = Metric M20 adaptor option (M=M20 adaptor included)	
Note: Option L1 utilizes the 100W driver	rs and L2 and L3 utilize the 150W drivers.	

## Electrical parameters/ratings for the above luminaire models is shown below:

120 - 277 VAC, 50/60 Hz

125-300 VDC

150 W (max), 1.8A (max) for AMLG and BLL models

315 W (max), 2.7A (max) for AMLH and BHL models

Temperature codes assigned to each model type based on driver current is shown below:

Areamaster Generation 2 and Baymaster models for Gas/Dust atmospheres with the following light engines (LED arrays):

LLOMAFF-A3N201A (3000K-W), LLOMAFF-A3N602A (5000K-A), LLOMAFF-A3N202A (3000K-A), LLOMAFF-A3N601A (5000K-W), LLOMAFF-A3N601B (5000K-no optic), LLOMAFF-A3N604A (5000K-S), or LLOMAFF-A3N204A (3000K-S), 59660049001 (5000K), 59660049002 (4000K), 59660049003 (3000K), 59660047001 (5000K), 59660047002 (4000K), 59660047003 (3000K)



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	Ex ec IIC			Ex tb/tc IIIC		
Ambient temperature	100W	150W Driver		100W	150W Drive	\r
	Driver			Driver	130W DIIVE	:1
	410mA	680mA	930mA	410mA	680mA	930mA
-40°C≤Ta≤+40°C	T5	T4	T3	T85°C	T85°C	T85°C
-40°C≤Ta≤+55°C	T4	T3	T3	T85°C	T85°C	T100°C
-40°C≤Ta≤+65°C	T4	T3	T3	T85°C	T100°C	T100°C

Areamaster High Lumen and Baymaster High Lumen models for Gas/Dust atmospheres with the following light engines (LED arrays):

LLOMAGA-A4N601B (5000K-no optic), LLOMAGA-A4N601A (5000K-W), LLOMAGA-A4N201A (3000K-W), LLOMAGA-A4N604A (5000K-S), or LLOMAGA-A4N204A (3000K-S), 59660048001 (5000K), 59660048002 (4000K), 59660048003 (3000K), 59660046001 (5000K), 59660046002 (4000K), 59660046003 (3000K)

	Ex ec IIC			Ex tb/tc IIIC		
Ambient	100W	150W Driver		100W	150W Drive	
temperature	Driver			Driver	130W DIIVE	:1
	530mA	680mA	915mA	530mA	680mA	915mA
-40°C≤Ta≤+40°C	T4	T4	T3	T85°C	T85°C	T85°C
-40°C≤Ta≤+55°C	T4	T4	Т3	T85°C	T100°C	T100°C
-40°C≤Ta≤+65°C	T4	T3		T100°C	T100°C	

Areamaster High Lumen and Baymaster High Lumen models for Gas/Dust atmospheres where very narrow optic (3 x 3 beam) is used (AMLHxyz3BU and BHLxyzVNBU):

Ex ec IIC			Ex tb/tc IIIC			
Ambient temperature	100W Driver	150W Driver		100W Driver	150W Drive	er
	530mA	680mA	915mA	530mA	680mA	915mA
-40°C≤Ta≤+40°C	T4	T4	T3	T100°C	T100°C	T100°C
-40°C≤Ta≤+55°C	T4	T4	T3	T100°C	T100°C	T100°C
-40°C≤Ta≤+65°C	T4	T3		T100°C	T100°C	

#### 12. Report Number

Intertek Report: 103941167DAL-002 Issue: 1 Dated: July 24, 2019. Intertek Report: 104044732DAL-004 Issue: 2 Dated: August 6, 2020.

#### 13. Special Conditions of Certification

(a). Special Conditions of Use

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.



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None

- (b). Conditions of Manufacture Routine Tests
  - Routine Dielectric Strength testing of the LED luminaires per IEC 60079-7:2015, Clause 7.1 is applicable. Dielectric strength shall be verified by test at the following test voltage and maintained for at least 1 min without dielectric breakdown occurring:
     For other electrical equipment and Ex Components, where working voltages exceeding 90 V peak are present: (1 000 + 2U) V r.m.s. + 5/0 % or 1 500 V r.m.s. +5 0 %, whichever is greater, where U is the working voltage. The LED luminaire shall be tested as follows:
    - o Between inputs and ground (frame of the enclosure) 1600V r.m.s.

Alternatively, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100ms.

 Where the equipment incorporates certified components, the manufacturer shall ensure that any changes to those components do not affect the compliance of the certified product that is the subject of this certificate.

## 14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 103941167DAL-002 Issue: 1 Dated: July 24, 2019 and 104044732DAL-004 Issue: 2 Dated: August 6, 2020.

## 15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
COVER TERMINAL BOX CASTING AREAMASTER LED HIGH LUMEN	609160	N	10/25/2016
HOUSING HEATSINK CASTING AREAMASTER LED GEN 2.0	609172	L	8/23/2018
HOUSING DRIVER CASTING AREAMASTER LED GEN 2.0	609173	Р	05/03/2017
COVER CASTING AREAMSTER LED GEN 2.0	609174	K	11/04/2016
CLEAR TEMPERED AR COATING GLASS AREAMASTER GEN 2	609204	E	06/27/2018
AREAMASTER LED GEN 2.0	615044	E	06/19/2019
NO MOUNT BAYMASTER LED GEN 2.0	615064	С	06/19/2019
DIFFUSED TEMPERED AR COATING GLASS AREAMASTER GEN 2	615025	D	06/27/2018
GASKET, O-RING DIA 0.26 AREAMASTER LED	615060	D	06/27/2018
GASKET SILICONE HOLLOW O-RING AREAMASTER LED	615057	С	06/27/2018
ZONE 2 RATED LED DRIVER (100W – BU VERSION)	299707455	05	06/01/2018

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ZONE 2 RATED LED DRIVER (150W – BU VERSION)	299707456	05	06/01/2018
LED ENGINE – WIDE 3000K AREAMASTER LED – GEN 2	603278	D	11/20/2017
LED ENGINE – AISLE 5000K AREAMASTER LED – GEN 2	603279	D	11/20/2017
LED ENGINE – AISLE 3000K AREAMASTER LED – GEN 2	603280	D	11/20/2017
LED ENGINE - WIDE 5000K AREAMASTER LED – GEN 2	609175	D	11/20/2017
LED ARRAY – 5000K WITHOUT SECONDARY OPTICS AREAMASTER LED – GEN 2	609207	С	11/20/2017
LED ENGINE – AISLE WIDE 5000K AREAMASTER LED – GEN 2	615038	В	11/20/2017
LED ENGINE – AISLE WIDE 3000K AREAMASTER LED – GEN 2	615039	В	11/20/2017
AREAMASTER HIGH LUMEN ARRAY LAYOUT	634611	Α	10/13/2017
AREAMASTER/BAYMASTER LED GEN2 LED ARRAY BOARD	637008	Α	11/20/2017
THREADED PLUG – SQUARE RECESS	503712	С	10/31/2016
G5-3 FACTORY WIRING TERMINAL PHOENIX G5/3-EX- 2703172	609194	С	10/25/2016
TERMINAL BLOCK PHOENIX UT-4, 3044	609197	С	08/23/2018
TERMINAL BLOCK PHOENIX UT4-PE 3044128	609198	С	08/23/2018
END CLAMP-CLIPFIX 35-5 PHOENIX #3022276	609199	В	10/25/2016
SHUNT PHOENIX CONTACT TYPE FBS 2-6 3030336	609196	В	07/17/2017
*SILICON ADHESIVE/SEALANT RTV – GENERAL PURPOSE	669014	Р	03/21/2019
CONDUCTIVE COMPOUND	669166	В	09/28/2017
AREAMASTER LED HIGH LUMEN AND GEN 2 NAMEPLATE LABEL	663474	E	12/11/2018
BAYMASTER LED HIGH LUMEN AND GEN 2 NAMEPLATE LABEL	663475	D	12/11/2018
*AREAMASTER LED HIGH LUMEN AND GEN 2 IECEX NAMEPLATE LABEL	663476	D	07/24/2020
*BAYMASTER LED HIGH LUMEN AND GEN 2 IECEX NAMEPLATE LABEL	663477	D	07/24/2020
SERIAL NUMBER NAMEPLATE	663570	Α	10/2/2017
THERMAL PAD FOR AMLED GEN2 ZONE2	606204	С	01/04/2018
THERMAL PAD FOR AMLED HL ZONE2	606206	С	01/04/2018
COVER SUB ASSEMBLY AREAMASTER LED HIGH LUMEN	618367	А	07/17/2018
COVER SUB ASSEMBLY AREAMASTER LED GEN 2	618366	Α	07/17/2018
HEATSINK HOUSING & GASKET SUBASSEMBLY AREAMASTER LED HIGH LUMEN	609254	В	09/04/2017

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609255	В	09/04/2017
609257	С	12/22/2017
609354	С	06/19/2019
615043	С	06/19/2019
650525-000	Н	01/30/2020
650525-001	G	01/30/2020
650547-000	F	04/20/2020
650547-001	F	04/20/2020
603270	D	11/20/2017
609165	D	11/20/2017
603271	D	11/20/2017
609166	D	11/20/2017
609206	С	11/20/2017
615036	В	11/20/2017
615037	В	11/20/2017
615051	С	01/15/2018
609399	01	11/13/2018
609270	С	02/14/2020
609290	А	07/12/2017
609293	А	07/13/2017
609294	В	11/22/2017
615063	В	12/12/2017
610621	М	02/24/2020
	609257 609354 615043 650525-000 650525-001 650547-000 650547-001 603270 609165 603271 609166 615036 615037 615051 609399 609270 609290 609293 609294 615063	609257 C 609354 C 615043 C 650525-000 H 650525-001 G 650547-000 F 650547-001 F 603270 D 609165 D 60926 C 615036 B 615037 B 615037 B 615051 C 609399 01 609270 C 609290 A 609293 A 609294 B 615063 B

Note: An \* is included before the title of documents that are new or revised.

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#### 16. Details of Certificate changes Issue 1

Revision of the existing certificate is in order to add the following light engines (LED arrays) to the equipment construction:

- Areamaster Gen 2/Baymaster with light engine (LED array) 59660049001 (5000K), 59660049002 (4000K), 59660049003 (3000K)
- Areamaster Gen 2/Baymaster with light engine (LED array) 59660047001 (5000K), 59660047002 (4000K), 59660047003 (3000K)
- Areamaster/Baymaster LED High Lumen with light engine (LED array) 59660048001 (5000K), 59660048002 (4000K), 59660048003 (3000K)
- Areamaster/Baymaster LED High Lumen with light engine (LED array) 59660046001 (5000K), 59660046002 (4000K), 59660046003 (3000K)

All light engines (LED arrays) have been evaluated with secondary LED array optics (lens).

Also, the above specified LED array models intruduce 4000K color temperature option to the luminaire construction.

#### **Details of Certificate changes Issue 2**

Reference Intertek Report: 104044732DAL-004 Issue: 2 Dated: August 6, 2020 for more details.

Changes made to the previously evaluated Areamaster/Baymaster Generation 2 (Gen 2)/LED and Areamaster/Baymaster High Lumen (HL) LED luminaires encompasses the following:

- 1) Addition of the Quick Connect feature to the luminaire enclosure for the purpose of pendant hood mounting. The Quick Connect assembly consists of the following:
  - Pendant Hood made out of the same aluminium material as the LED luminaire enclosure. Each Pendant Hood contains the same powder coating as its associated enclosure (gray for Baymaster luminaires). The Pendant Hood also houses a polymeric terminal block with copper contacts, as well as a polymeric strain relief and a grounding screw. Polymeric terminal block is secured within the Pendant Hood utilizing 2 set screws, where the strain relief is mechanically secured to the polymeric terminal block (via clips). The strain relief may or may not be utilized with this assembly. The gasket utilized with the Pendant Hood (connection between the Pendant Hood and Quick Connect Adaptor) is Parker, or Sur-Seal molded gasket, which is further secured to the Pendant Hood body via RTV seal/adhesive. Pendant Hood is connected to the power junction box (in the field) via a ¾" threaded conduit which is also secured via a set screw.
  - Quick Connect Adaptor made out of the same aluminium material as the LED luminaire enclosure. Each Quick Connect Adaptor contains the same powder coating as its associated enclosure (gray for Baymaster luminaires). Quick Connector Adaptor also houses a polymeric connector block (for the polymeric terminal block housed within the Pendant Hood), with a copper contact which provides connection to the Pendant Hood polymeric

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terminal block. Polymeric connector block is secured within the Quick Connector Adaptor using 2 set screws. Quick Connector Adaptor is secured to the Pendant Hood via a mechanical retention (twist lock mechanism), as well as a set screw. Connection between the Quick Connector Adaptor and the main enclosure body is sealed via a gasket Midwest Sealing Products closed cell silicone sponge (further secured to the enclosure body via RTV seal/adhesive) and secured via 3 screws.

Addition of assembly location:

Emerson Climate Technologies Arabia Building No. 7874 Unit No. 1 Dammam 34332-3620, Saudi Arabia

2) Addition of the following control drawings to the list of the existing control drawings:

Title:	Drawing No.:	Rev. Level:	Date:
HOOD AND GASKET SUBASSEMBLY BAYMASTER LED	609270	С	02/14/2020
ADAPTOR SUBASSEMBLY BAYMASTER LED	609290	Α	07/12/2017
DRIVER HOUSING & ADAPTOR ASSEMBLY BAYMASTER LED GEN2	609293	Α	07/13/2017
PENDANT HOOD ASSEMBLY BAYMASTER LED	609294	В	11/22/2017
HOOD, PENDANT MOUNT CASTING QUICK CONNECT	615063	В	12/12/2017
*SILICON ADHESIVE/SEALANT RTV – GENERAL PURPOSE	669014	Р	03/21/2019
*TERMINAL BLOCK ASSEMBLY	610621	M	02/24/2020
*Installation Instructions for Appleton Areamaster High Lumen LED Luminaire – Yoke Mount	650525-000	Н	01/30/2020
*Installation Instructions for Appleton Areamaster GEN 2 LED Luminaire – Yoke Mount	650525-001	G	01/30/2020
*Installation Instructions for Appleton Baymaster HL LED Luminaire – No Mount	650547-000	F	04/20/2020
*Installation Instructions for Appleton Baymaster LED Luminaire – No Mount	650547-001	F	04/20/2020
*AREAMASTER LED HIGH LUMEN AND GEN 2 IECEX NAMEPLATE LABEL	663476	D	07/24/2020
*BAYMASTER LED HIGH LUMEN AND GEN 2 IECEX NAMEPLATE LABEL	663477	D	07/24/2020

<u>Note</u>: An  $\ast$  is included before the title of documents that are revised.