

Inspection Report No.: ATS-EU-IR-43-00081



of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Inspection Report

No. ATS-EU-IR-43-00081
Rel. 00

Inspection concerning ~~vehicles~~ / **components** with regard to:

Uniform provisions concerning **Windshields for Motorcycles**

performed according to

the provision of the StVZO, in particular according §35b of StVZO,

the proviosns in according to ECE Regulation No. 43

the provisions in according to External Design relative to Regulation (EU) no. 44/2014, Annex VIII,

the provisions in according to Control Requirements relative to Regulation (EU) no. 3/2014, Annex VIII,

the provisions in according to Steerability, cornering properties, maneuverability relative to Regulation (EU) no. 3/2014, Annex XIV

The records of this Inspection Report are shown below.

Inspection Report No.: ATS-EU-IR-43-00081



of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

0. General information

Type: **Windshield**

Type Commercial Description: 1227, 1227HP2, 2026, 2027

Variant(s): **WindShield_V1**
WindShield_V2
WindShield_V3
WindShield_V4
WindShield_V5
WindShield_V6

Variant(s) Commercial Description: **WindShield_V1**
3102, 3105, 2500, 1690, 2035
WindShield_V2
1624, 1575
WindShield_V3
1227EXT
WindShield_V4
1910, 1912, 1913, 1914, 1531, 1532
WindShield_V5
1326, 1236
WindShield_V6
3210, 3211, 3212, 3213

0.2. Tested component type (Worst Case) **Windshield**

0.2.1. Commercial Description(s): 1227

0.3. Name and Address of Manufacturer: Unit Garage S.r.l.
Via Annibolina, 19
47832 San Clemente (RN)
Italy

0.3.1 Name and Address of Representative of Manufacturer: Not Applicable

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Type: Windshield

Manufacturer: Unit Garage S.r.l.

0.3.2. Operative Site of Manufacturer Via Roma 73
61020 Tavoletto (PU)
Italy

0.4 Vehicle's category on which the use of the
inspected component is intended: L

Main Dimensions: See Information and Technical Folder in Annex

Brief description of the Component: Windshield for fixing to motorcycles made in PMMA acrylic
glass polycarbonate.

1. Test Basis: The tests were carried out in according to Regulation ECE
R43, according to Regulation (UE), No. 44/2014, Annex VIII,
to the paragraph 35b of StVZO, to the Regulation (EU) No.
3/2014, Annex VIII, Annex XIV and Annex IX, respecting all
the requirements set by the latter.

2. Performed Tests

2.1. Exterior Design: All exposed edges of the windshields have a radius of
curvature of 2 mm provided. The requirements of points
1.3.2 and 1.3.3 of the Regulation EU No. 44/2014 Annex VIII,
are fulfilled from a pane thickness of 3 mm even without
edge protection.

2.2. Field of View Measurement: The field of vision is not restricted, the view over the pane is
guaranteed, in according to the Paragraph 35b of the StVZO.

- 2.3. Control requirements: The actuation devices and operating parts are not removed by the attachment impaired, in according to the Regulation EU No. 3/20014 (Annex VIII).
- 2.4. Steerability, cornering properties, maneuverability: The driving behavior was determined with selected test vehicles from the area of application checked.
There were no negative influences up to the maximum speed of the test vehicles determined on the driving behavior, in according to the Regulation EU No. 3/2014 (Annex XIV)
- 2.5. Top Speed: The maximum speed of the vehicles listed in the area of use changes within the permissible measurement tolerances.
- 2.6. Lighting equipment:
- Headlights:
The effectiveness of the standard headlights is enhanced by the attachment of the Windshields not affected.
- Direction indicator:
The geometric visibility of the direction indicators remains even when the Preserved cockpit window
- Mirrors:
The attachment of the mirrors remains in the standard condition.
- Instruments:
The view of the prescribed instruments changes when the Disc not.
- Handlebars:
The handlebar clearances are not restricted.

3. Field of application:

The Windshield described and subject to testing and inspection, can only be used on the vehicles specified in Annex 1 to this Report.

Their use is limited to motorcycles only.

This Windshield must be installed according to the manufacturer's installation instructions. If there are any indications or limitations, they must be observed.

4. Test results

The Windshield was tested according to the above-mentioned test basis. The component tested meet the requirements of these Guidelines and Regulations.

For the purposes of this inspection, the acceptance of the latter by an officially recognized expert or inspector for automobile traffic or a motor vehicle expert according to section 4 of Annex VIII b of the StVZO, is not considered necessary.

However, such a test is necessary if:

- the motorcycles were registered for road use in an individual procedure according to §21 StVZO;
- several changes are made that affect each other in such a way that a danger is possible and that the operating permit will expire.

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Manufacturer: Unit Garage S.r.l.

5. **Conditions and advices**

5.1 Fixing must be performed according to the **manufacturer's assembly instructions**.

5.2 Hydraulic and electric transmission equipment should not undergo any changes in position when the Windshield is installed. Furthermore, when the Windshield is installed, there must be no rubbing of any kind and the corresponding radii of the brake lines must comply with the manufacturer's specifications.

5.3 A functional check of all equipment involved in the conversion (coupling, brake, throttle grip, lighting, horn) must be performed.



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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

5 Other Informations

Date of test: 20.01.2022

| | Senior Inspector | Junior Inspector |
|--------------------------------------|--------------------------|------------------|
| Technical Service Representative(s): | Eng. Gabriele Zivelonghi | -- |

Manufacturer's Representative: Mr. Fabio Marcaccini

Remarks: None

5.1 Appendix

1. List of modifications
2. List of vehicles covered by the inspection

5.2 Annex

- 1 Information Folder

Information Folder No. Windshield-00

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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

6. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (See Paragraph 1).





The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020, StVZO, ECE Regulation No. 43, Regulation (UE) No. 44/2014, Annex VIII, Regulation (EU) No. 3/2014, Annex VIII, Annex XIV and Annex IX.

The inspection report comprises pages 1 to 16.

It shall not be reproduced except in full, without written approval of the laboratory.

Verona, Italy

27.01.2022

| | | | |
|-----------------------------------|--|--|---|
| Number of Project and Protocol | Originality Check (*) | Automotive Technical Service S.r.l. <i>Inspector</i>  (Eng. Gabriele Zivelonghi) |  |
| |  ATS-EU-PR-00081 | Automotive Technical Service S.r.l. <i>Deputy Technical Director</i>  (Eng. Bogdan Domnescu) | |

(*) To check the originality of documents, scan the QR Code or connect to the site <https://www.ats-group.org/controllo-originalita/> and follow the instruction in it.

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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Appendix 1

List of modifications

~~Applicable~~ / Not Applicable

Appendix 1

More details for application of

Date :

Correction of : -

Modification of : -

Addition of : -

Deletion of : -

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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Appendix 2

List of Vehicles Covered by the Inspection

Appendix 2

Type: WindShield Commercial Description: 1227, 1227HP2, 2026, 2027

| Manufacturer | Model | Production Years |
|--------------|-----------------------|------------------|
| BMW K21 | (R nine-T Roadster) | (2013 - current) |
| BMW K22 | (Rnine-T Pure) | (2015 - current) |
| BMW K23 | (R nine-T Scrambler) | (2015 - current) |
| BMW K32 | (R nine-T Racer) | (2015- 2019) |
| BMW K33 | (R nine-T Urban GS) | (2016 - current) |
| BMW K25 | (HP) | (2004 - 2008) |
| BMW K25 | (R 1200 GS) | (2002-2012) |
| BMW K25 | (R1200 GS ADV) | (2005-2013) |
| BMW 259 | (R 850 GS, R 1100 GS) | (1993 - 2006) |
| BMW 259R | (R 850 R, R 1100 R) | (1993 - 2002) |
| BMW R21 | (R 1150 GS) | (1998 - 2003) |
| BMW R21 | (R 1150 GS Adventure) | (2001 - 2005) |
| BMW R28 | (R 1150 R) | (1997 - 2007) |

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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Variant: WindShield_V1 Commercial Description: 3102, 3105, 2500, 1690, 2035

| Manufacturer | Model | Production Years |
|--------------|---------------------------|------------------|
| BMW K21 | (R nine-T Roadster) | (2013 - current) |
| BMW K22 | (Rnine-T Pure) | (2015 - current) |
| BMW K23 | (R nine-T Scrambler) | (2015 - current) |
| BMW K33 | (R nine-T Urban GS) | (2016 - current) |
| Triumph | Scrambler Scrambler | (2006 - 2017) |
| Triumph | Scrambler 900 | (2017- current) |
| Triumph | Scrambler 1200 XE/XC | (2019 - current) |
| Triumph | Bonneville T100 | (2001 - current) |
| Triumph | Bonneville T120 | (2016 - current) |
| Yamaha | XSR 900 | (2016 - current) |
| Yamaha | MT09 | (2013- current) |
| Ducati | Scrambler 400 Sixty 2 | (2016 - 2021) |
| Ducati | Scrambler 800 | (2015 - current) |
| Ducati | Scrambler 800 Desert Sled | (2017 - current) |
| Ducati | Scrambler 1100 | (2018 - current) |

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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Variant: WindShield_V2 Commercial Description: 1624, 1575

| Manufacturer | Model | Production Years |
|--------------|------------------------|------------------|
| BMW K21 | (R nine-T Roadster) | (2013 - current) |
| BMW K22 | (R nine-T Pure) | (2015 - current) |
| BMW K23 | (R nine-T Scrambler) | (2015 - current) |
| BMW K32 | K32 (R nine-T Racer) | (2015- 2019) |
| BMW K33 | (R nine-T Urban GS) | (2016 - current) |
| BMW K25 | (HP) | (2004 - 2008) |
| BMW K25 | (R 1200 GS) | (2002-2012) |
| BMW K25 | (R1200 GS ADV) | (2005-2013) |
| BMW 259 | (R 850 GS, R 1100 GS) | (1993 - 2006) |
| BMW 259R | (R 850 R, R 1100 R) | (1993 - 2002) |
| BMW R21 | (R 1150 GS) | (1998-2003) |
| BMW R21 | (R 1150 GS Adventure) | (2001 - 2005) |
| BMW R28 | (R 1150 R) | (1997 - 2007) |
| BMW K589 | (K1,K100 RS) | (1988-1993) |
| BMW K589 | (K100,RS,RT,LT) | (1982-1991) |
| BMW K569 | (K 75,K75C,K75S,K75RT) | (1984-2005) |

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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Variant: WindShield_V3 Commercial Description: 1227EXT

| Manufacturer | Model | Production Years |
|--------------|-----------------------|------------------|
| BMW K21 | (R nine-T Roadster) | (2013 - current) |
| BMW K22 | (Rnine-T Pure) | (2015 - current) |
| BMW K23 | (R nine-T Scrambler) | (2015 - current) |
| BMW K32 | K32 (R nine-T Racer) | (2015- 2019) |
| BMW K33 | (R nine-T Urban GS) | (2016 - current) |
| BMW K25 | (HP) | (2004 - 2008) |
| BMW K25 | (R 1200 GS) | (2002-2012) |
| BMW K25 | (R1200 GS ADV) | (2005-2013) |
| BMW 259 | (R 850 GS, R 1100 GS) | (1993 - 2006) |
| BMW 259R | (R 850 R, R 1100 R) | (1993 - 2002) |
| BMW R21 | (R 1150 GS) | (1998-2003) |
| BMW R21 | (R 1150 GS Adventure) | (2001 - 2005) |
| BMW R28 | (R 1150 R) | (1997 - 2007) |

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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Variant: WindShield_V4 Commercial Description: 1910, 1912, 1913, 1914, 1531, 1532

| Manufacturer | Model | Production Years |
|--------------|--------------------------------|------------------|
| BMW K50 | (R 1200 GS, R 1250 GS) | (2011 - current) |
| BMW K51 | (R 1200 GS ADV, R 1250 GS ADV) | (2012 - current) |
| BMW R21 | (R 1150 GS) | (1998 - 2003) |
| BMW R21 | (R 1150 GS Adventure) | (2001 - 2005) |



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of: 27.01.2022

Type: Windshield

Manufacturer: Unit Garage S.r.l.

Variant: WindShield_V5 Commercial Description: 1326, 1236

| Manufacturer | Model | Production Years |
|--------------|-----------------------|------------------|
| BMW 259 | (R 850 GS, R 1100 GS) | (2011 - current) |
| BMW 259R | (R 850 R, R 1100 R) | (2012 - current) |
| BMW R21 | (R 1150 GS) | (1998 - 2003) |
| BMW R21 | (R 1150 GS Adventure) | (2001 - 2005) |
| BMW R28 | (R 1150 R) | (1997 - 2007) |
| BMW K25 | (HP) | (2004 - 2008) |
| BMW K25 | (R 1200 GS) | (2002-2012) |
| BMW K25 | (R1200 GS ADV) | (2005-2013) |



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of: 27.01.2022


Type: Windshield

Manufacturer: Unit Garage S.r.l.

Variant: WindShield_V6 Commercial Description: 3210, 3211, 3212, 3213

| Manufacturer | Model | Production Years |
|--------------|------------|------------------|
| Yamaha | Ténéré 700 | (2019 - current) |



| | |
|---|---|
|  | Information Document No.: Windshield_00 |
| | Date: 21.01.2022 |
| | Company: Unit Garage S.r.l. |

Information Document

No. Windshield_ 00

Rel. 00


~~Vehicle~~/Component

Type: Windshield_A


Managing Director: Mr. Fabio Marcaccini
Place: San Clemente (RN) - Italy
Date: 21.01.2022

FIRMA


UNIT GARAGE S.r.l.
 Via Annibolina, 19
 47832 SAN CLEMENTE - RN
 C.F. - P.IVA 04 242 270 405
 info@unitgarage.com
 www.unitgarage.it

| | |
|---|---|
|  | Information Document No.: Windshield_00 |
| | Date: 21.01.2022 |
| | Company: Unit Garage S.r.l. |

General Information

- 1 Trade Name (Commercial Mark) UNIT GARAGE

- 2 Type: **Windshield**
- 3 Commercial Description(s): 1227, 1227HP2, 2026, 2027
- 4 Variant(s):

Variant: WindShield_V1
Commercial Code: 3102, 3105, 2500, 1690, 2035


Variant: WindShield_V2
Commercial Code: 1624, 1575

Variant: WindShield_V3
Commercial Code: 1227EXT

Variant: WindShield_V4
Commercial Code: 1910, 1912, 1913, 1914, 1531, 1532

Variant: WindShield_V5
Commercial Code: 1326, 1236

Variant: WindShield_V6
Commercial Code: 3210, 3211, 3212, 3213
- 5 Name and Address of Manufacturer: Unit Garage S.r.l.
Via Annibolina, 19
47832 San Clemente (RN)
Italy

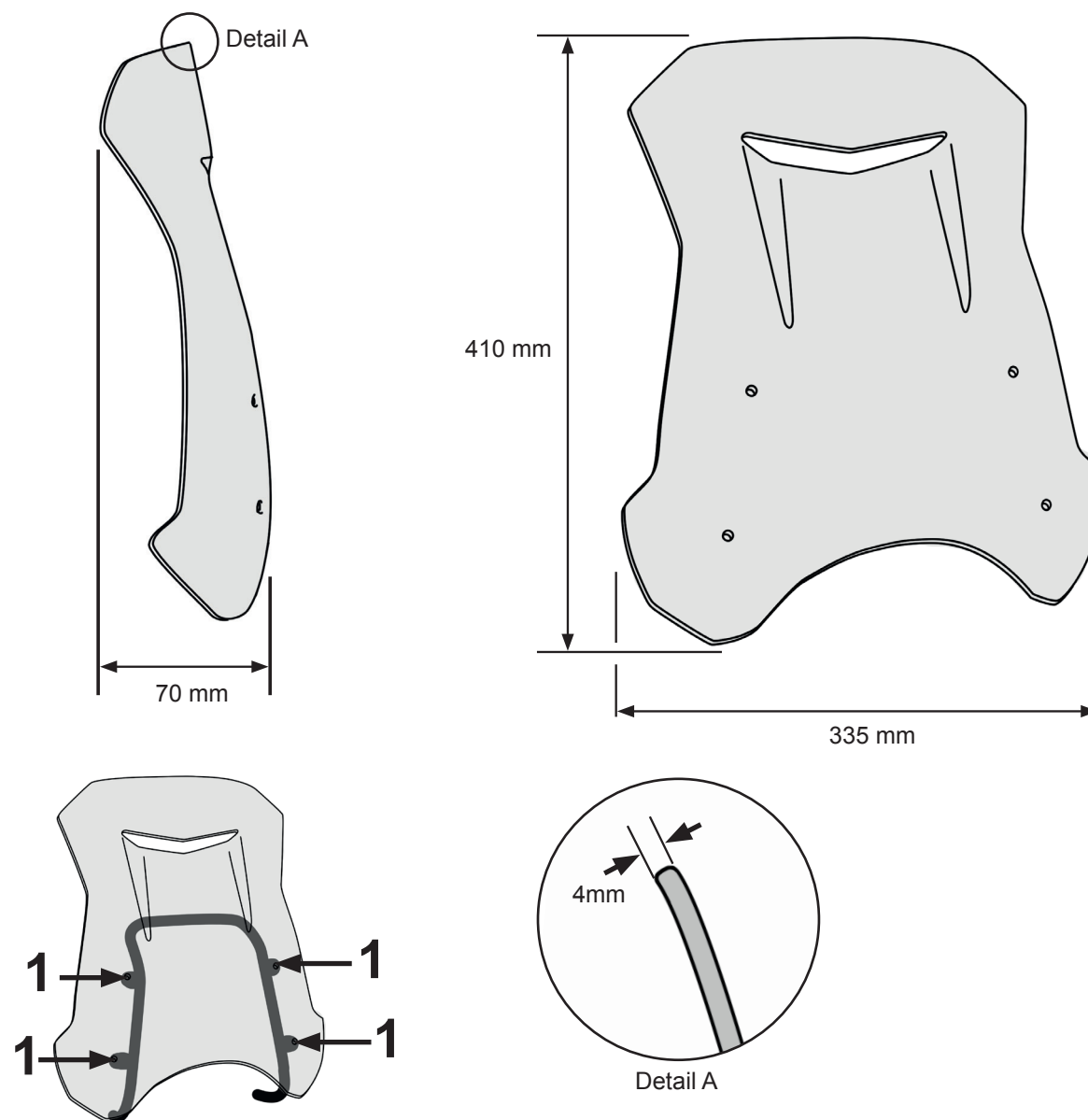
| | |
|---|---|
|  | Information Document No.: Windshield_00 |
| | Date: 21.01.2022 |
| | Company: Unit Garage S.r.l. |

- 6 Operative Site of Manufacturer Via Roma 73
61020 Tavoletto (PU)
Italy
- 7 Vehicle's category on which the use of the inspected component is intended: L
- 8 Brief description of the Component: Windshield for fixing to motorcycles made in PMMA acrylic glass polycarbonate.

Models:

BMW K21 (R nine-T Roadster) (2013 - current)
 BMW K22 (R nine-T Pure) (2015 - current)
 BMW K23 (R nine-T Scrambler) (2015 - current)
 BMW K33 (R nine-T Urban GS) (2016 - current)
 Triumph Scrambler Scrambler (2006 - 2017)
 Triumph Scrambler 900 (2017- current)
 Triumph Scrambler 1200 XE/XC (2019 - current)
 Triumph Bonneville T100 (2001 - current)
 Triumph Bonneville T120 (2016 - current)
 Yamaha XSR 900 (2016 - current)
 Yamaha MT09 (FZ-09) (2013- current)
 Ducati Scrambler 400 Sixty 2 (2016 - 2021)
 Ducati Scrambler 800 (2015 - current)
 Ducati Scrambler 800 Desert Sled (2017 - current)
 Ducati Scrambler 1100 (2018 - current)

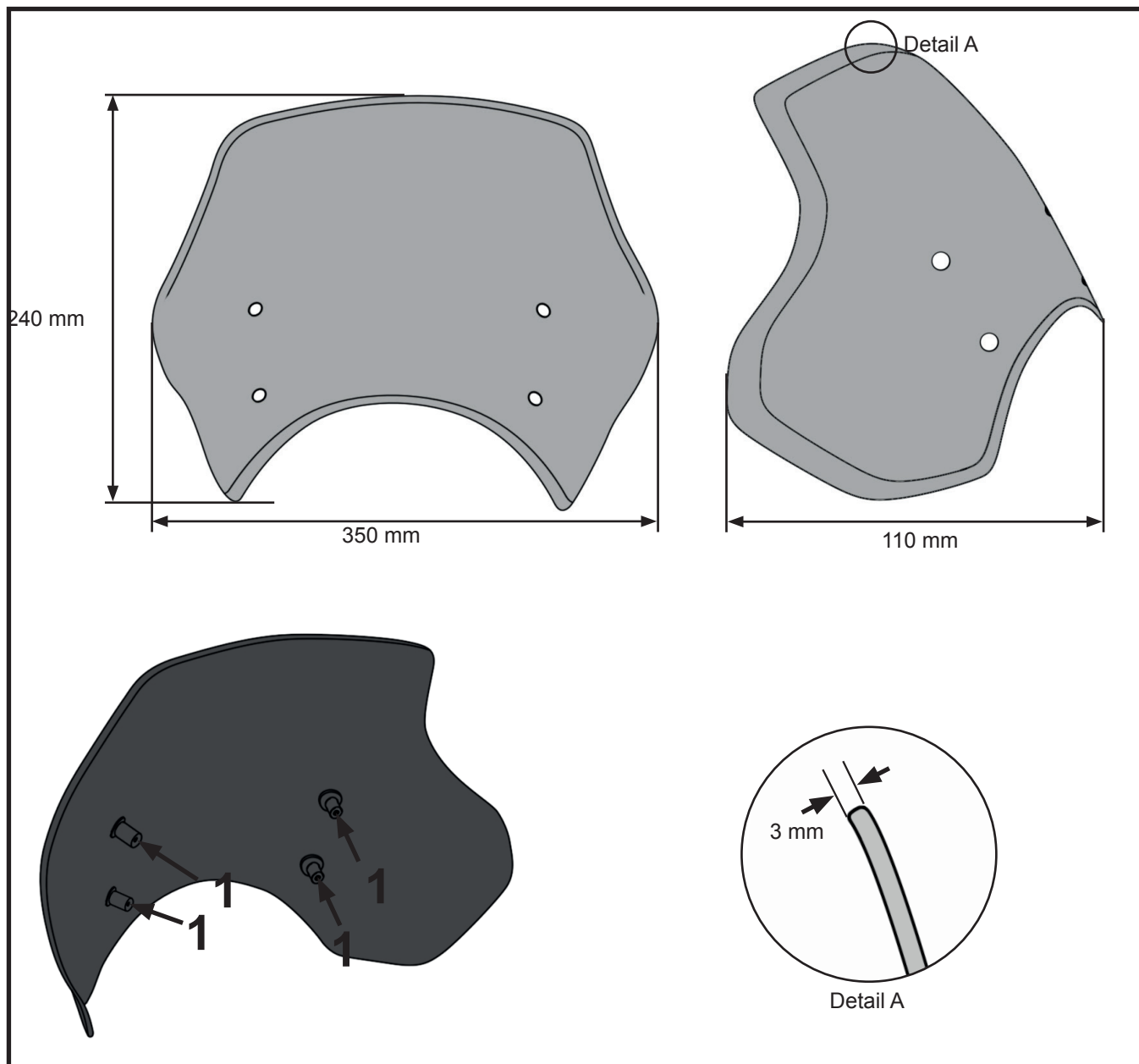
1 Button head screw, Hex socket M5x16



Models:

BMW K21 (R nine-T Roadster) (2013 - current)
BMW K22 (R nine-T Pure) (2015 - current)
BMW K23 (R nine-T Scrambler) (2015 - current)
BMW K32 (R nine-T Racer) (2015- 2019)
BMW K33 (R nine-T Urban GS) (2016 - current)
BMW K25 (HP) (2004 - 2008)
BMW K25 (R 1200 GS) (2002-2012)
BMW K25 (R1200 GS ADV) (2005-2013)
BMW 259 (R 850 GS, R 1100 GS) (1993 - 2006)
BMW 259R (R 850 R, R 1100 R) (1993 - 2002)
BMW R21 (R 1150 GS) (1998 - 2003)
BMW R21 (R 1150 GS Adventure) (2001 - 2005)
BMW R28 (R 1150 R) (1997 - 2007)
BMW K589 (K1, K100 RS) (1988-1993)
BMW K589 (K100, RS, RT, LT) (1982-1991)
BMW K569 (K 75, K75C, K75S, K75RT) (1984-2005)

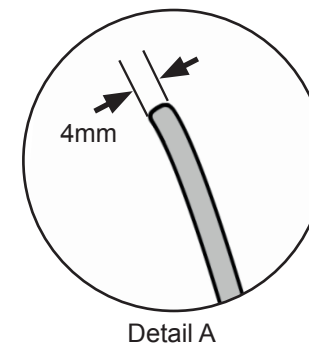
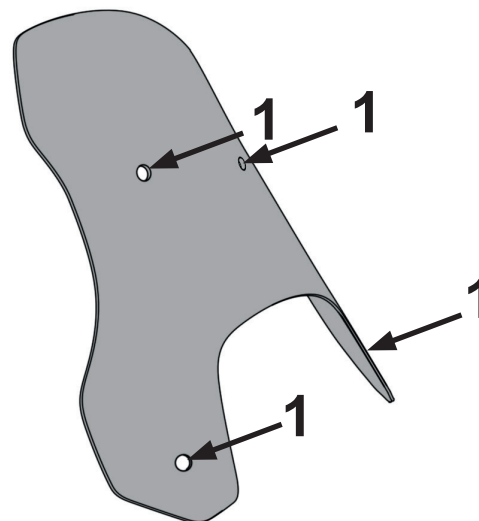
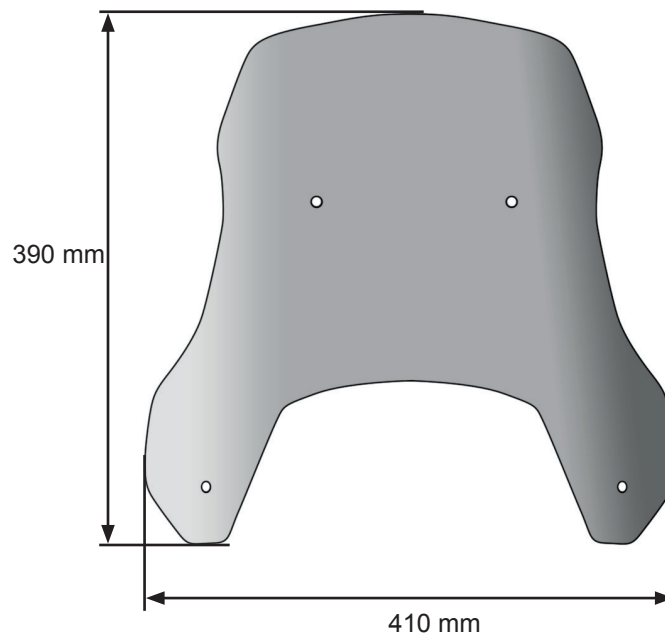
1 Button head screw, Hex socket M5x16



Models:

BMW K21 (R nine-T Roadster) (2013 - current)
BMW K22 (Rnine-T Pure) (2015 - current)
BMW K23 (R nine-T Scrambler) (2015 - current)
BMW K32 (R nine-T Racer) (2015- 2019)
BMW K33 (R nine-T Urban GS) (2016 - current)
BMW K25 (HP) (2004 - 2008)
BMW K25 (R 1200 GS) (2002-2012)
BMW K25 (R1200 GS ADV) (2005-2013)
BMW 259 (R 850 GS, R 1100 GS) (1993 - 2006)
BMW 259R (R 850 R, R 1100 R) (1993 - 2002)
BMW R21 (R 1150 GS) (1998 - 2003)
BMW R21 (R 1150 GS Adventure) (2001 - 2005)
BMW R28 (R 1150 R) (1997 - 2007)

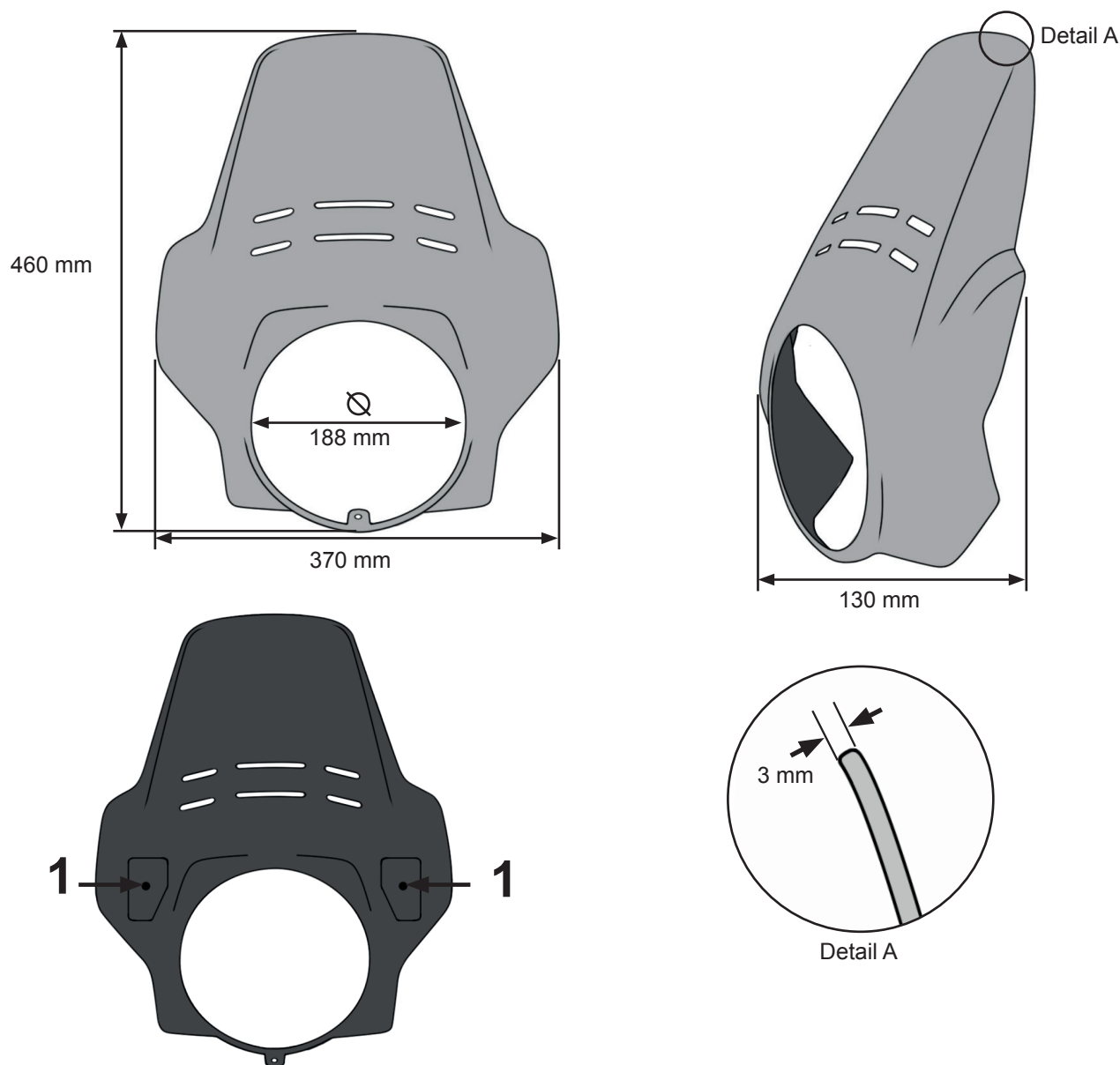
1 Button head screw, Hex socket M5x16



Models:

BMW K21 (R nine-T Roadster) (2013 - current)
 BMW K22 (R nine-T Pure) (2015 - current)
 BMW K23 (R nine-T Scrambler) (2015 - current)
 BMW K32 (R nine-T Racer) (2015- 2019)
 BMW K33 (R nine-T Urban GS) (2016 - current)
 BMW K25 (HP) (2004 - 2008)
 BMW K25 (R 1200 GS) (2002-2012)
 BMW K25 (R1200 GS ADV) (2005-2013)
 BMW 259 (R 850 GS, R 1100 GS) (1993 - 2006)
 BMW 259R (R 850 R, R 1100 R) (1993 - 2002)
 BMW R21 (R 1150 GS) (1998 - 2003)
 BMW R21 (R 1150 GS Adventure) (2001 - 2005)
 BMW R28 (R 1150 R) (1997 - 2007)

1 Button head screw, Hex socket M5x16



Models:

BMW K50 (R 1200 GS, R 1250 GS) (2011 - current)

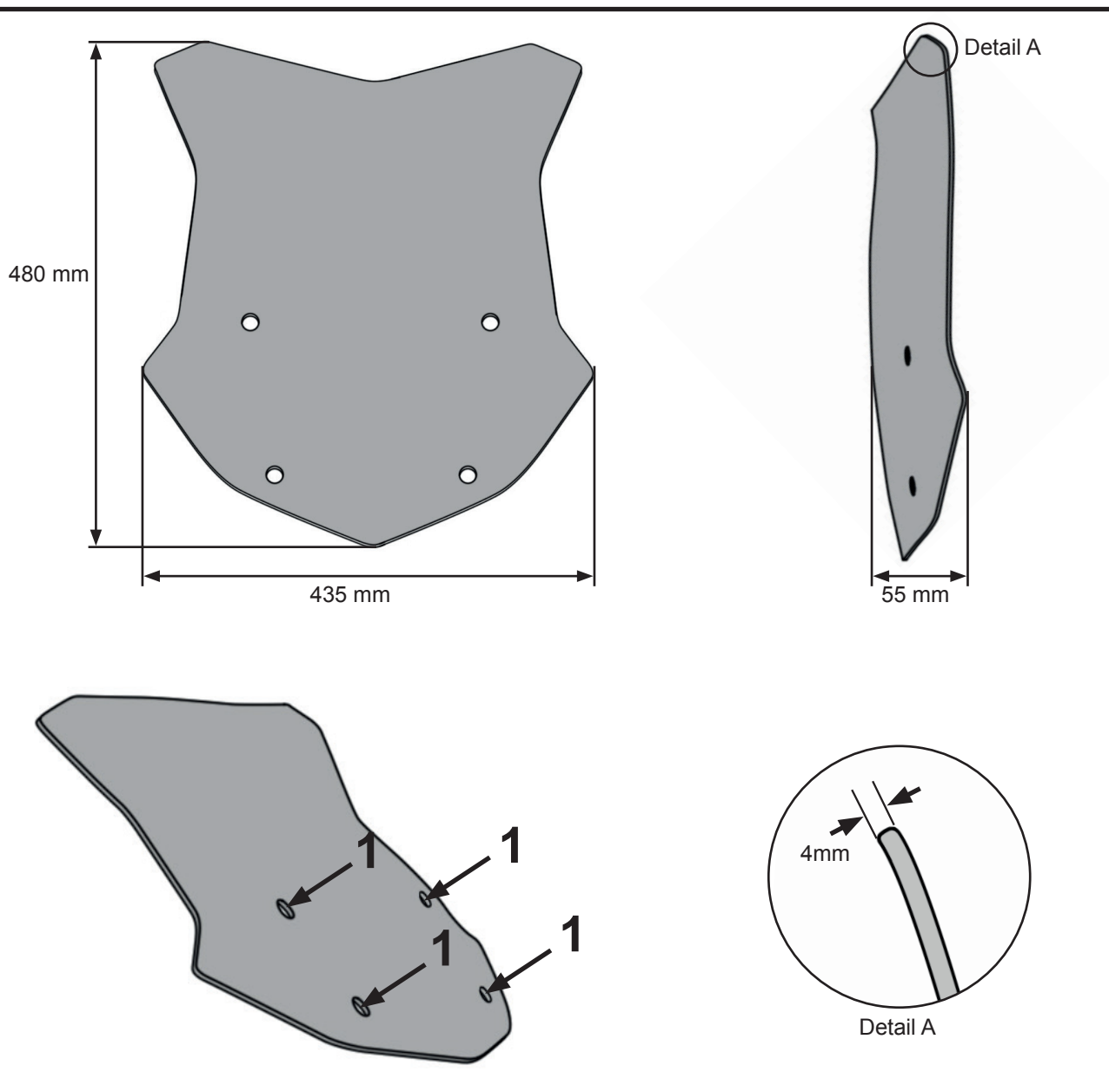
BMW K51 (R 1200 GS ADV, R 1250 GS ADV)

(2012 - current)

BMW R21 (R 1150 GS) (1998 - 2003)

BMW R21 (R 1150 GS Adventure) (2001 - 2005)

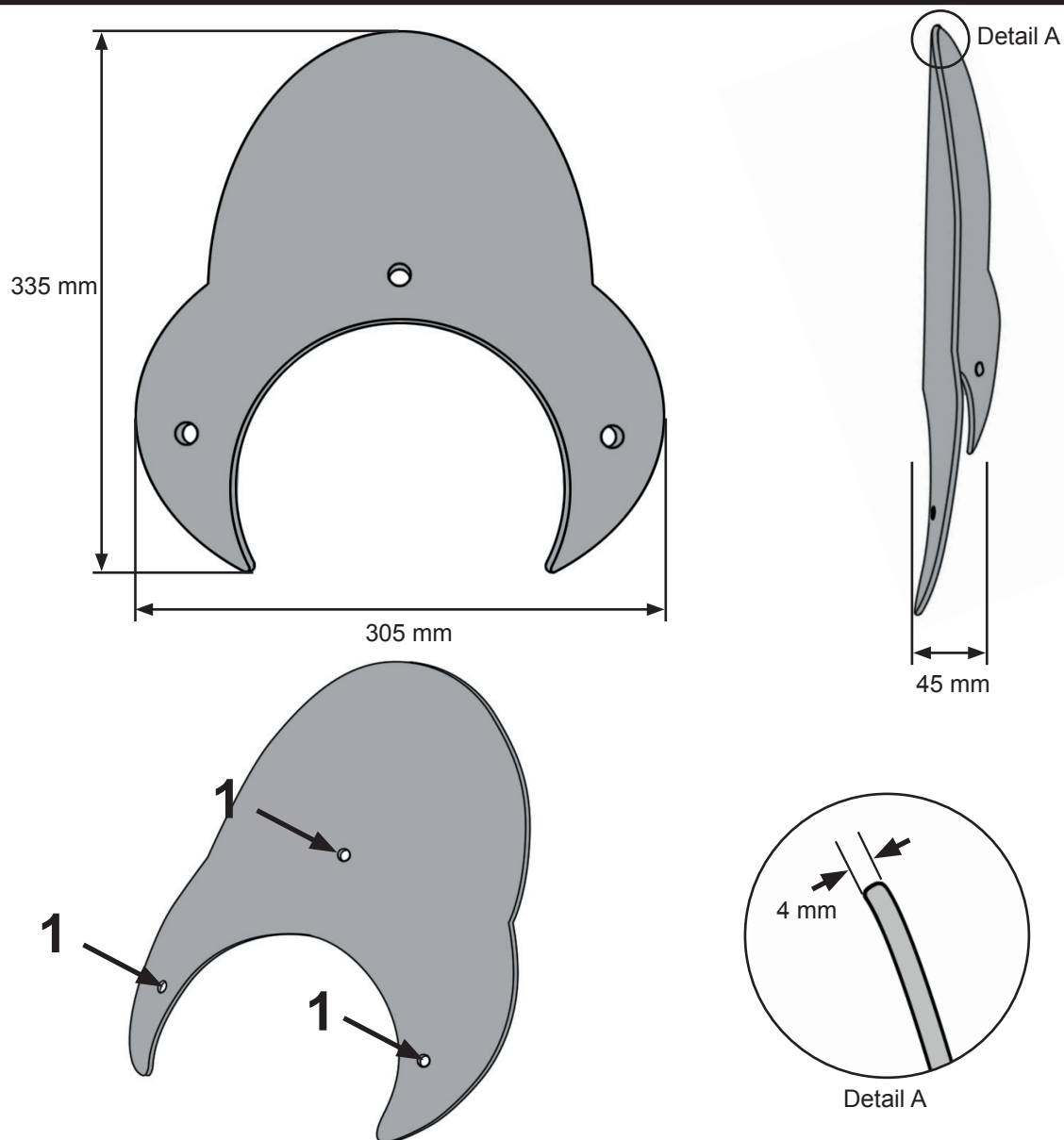
1 Original ISA screw M5x12



Models:

BMW 259 (R 850 GS, R 1100 GS) (1993 - 2006)
BMW 259R (R 850 R, R 1100 R) (1993 - 2002)
BMW R21 (R 1150 GS) (1998 - 2003)
BMW R21 (R 1150 GS Adventure) (2001 - 2005)
BMW R28 (R 1150 R) (1997 - 2007)
BMW K25 (HP) (2004 - 2008)
BMW K25 (R 1200 GS) (2002-2012)
BMW K25 (R1200 GS ADV) (2005-2013)

1 Button head screw, Hex socket M5x16



Models:
Yamaha Ténéré 700 (2019 - current)

1 Button head screw, Hex socket M6x16

