



**POTVRDA O SUKLADNOSTI**  
*(Certificate of conformity)*  
**Br. C/08-04/20-AQGE**

<b>Proizvod:</b> <i>Product</i>	<b>aquatherm green pipe PP-R SDR 9 MF RP</b> PP-RP/ PP-RP GF/PP-RP; koji je pojačan staklenim vlaknima
<b>Proizvođač:</b> <i>Manufacturer:</i>	<b>AQUATHERM GmH, Germany</b> place of manufacture Biggen 5, D-57439 Attendorn and Wilhelm-Ronsch - Str.4, D-01454 Radeberg
<b>Tip:</b> <i>Models or types:</i>	<b>aquatherm green pipe PP-R SDR 9 MF RP</b> PP-RP / PP-RP GF/PP-RP, koji je pojačan staklenim vlaknima 32x3,6 mm, 40x 4,5 mm; 50 x 5,6 mm; 63x 7,1 mm, 75 x 8,4 mm, 90x 10,1 mm; 110x 12,3 mm; 125x14 mm; 160 x 17,9 mm; 200x 22,4 mm; 250x 27,9 mm; 315x 35,2 mm, 355 x 39,7 mm , PN 15 @ 20° C
<b>Podnositelj zahtjeva:</b> <i>Applicant:</i>	AQUATHERM GmbH , Germany Biggen 5, D-57439 Attendorn
<b>Ovlaštena tvrtka:</b> <i>Authorized company:</i>	ZAVOD ZA ISPITIVANJE KVALITETE d.o.o. Mostar Sv. Leopolda Mandića 9/1, 88000 Mostar

**Tehnički i drugi podaci:** *(Technical and other data):*

<b>Opis:</b>	<b>aquatherm green pipe PP-R SDR 9 MF RP</b> PP-R / PP-R GF/PP-R fusiolen green pipe cijevi, zelene su boje s 4 tamno zelene trake po cijeloj duljini. Faser kompozitne zelene cijevi namjenjene su za sanitarnu vodu, grijanje i instalaciju hladne i tople vode. Izrađene su s međuslojem koji sadrži staklena vlakna.
<b>Dimenzije:</b>	DN= (32 do 355) mm; SDR 9 MF (SDR=d/e), S 4 serija cijevi ( S=(SDR-1)/2), PN 15 @ 20° C
<b>Osnovni sastav:</b>	Polipropilen PP R je vrsta PP random kopolimera sa specijalnom kristalnom strukturom.
<b>Način ugradnje:</b>	Isključivo prema uputama proizvođača koje moraju biti usklađene u svim detaljima sa tehničkom dokumentacijom tvrtke Aquatherm samo od ovlaštenog zastupnika u skladu s tehničkom dokumentacijom po katalogu Or.Nr. E10101 04/2015 aquatherm green pipe- Pipe system made of polypropylene

Dodatak certifikatu i: *(Add Certificate and):*

**SKZ A632; SKZ A 644, SKZ –TeConA GmbH 10.15/10.2018; DNV –GL 86069-96 HH od 07.09.2015/ 05.08.2020 ;**  
*Izvešću o ispitivanju br./ Test reports No./ 08-04/20-AQGE ZIK Mostar;*  
**RINA ITALY TYPE APPROVAL MAC156215X G/ 005 09.2015/09.2020; EMI HUNGARIA 20-CPR-2-(C-20/2013)**

**Zaključak / Conclusion/:**

Utvrđeno je da je proizvod **S U K L A D A N** sa zahtjevima sljedećih normi i propisa :  
*It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:*

- **DIN 8077:2007, DIN 8078:2007,**
- **HR 3.28:2008-3; Part C , Chapter 1, Appendix 3 of RINA Rules**
- **BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008,**
- **BAS EN ISO 15874-5/A1:2019, BAS EN ISO 15874-2:2014**

Stranica 1 +3/ Page 1 + 3

**Mjesto, datum izdavanja: Mostar, 11.11.2020.**

*Place and Date of issue:*

**Rok valjanosti : 11.11.2025. god.**

*Validiti date:*

MP  
Seal  
ZAVOD  
ZA ISPITIVANJE KVALITETE  
d.o.o. MOSTAR  
PODRUŽNICA MOSTAR

**Direktor:**  
*Signature authorized person:*

Mr. sci. Milenko Puce, dipl.ing.





## IZVJEŠĆE O ISPITIVANJU (Test Report) br. 08-04/20-AQGE

**Proizvod:**  
 Product

aquatherm green pipe PP-R SDR 9 MF RP  
 PP-RP/ PP-RP GF/PP-RP; koji je pojačan staklenim vlaknima  
 tip SDR 9 MF RP acc.to HR 3.28:2008 , PN 15 @ 20° C; (32 do 355) mm

**Proizvođač:**  
 Manufacturer:

AQUATHERM GmbH , Germany  
 place of manufacture Biggen 5, D-57439 Attendorn and Wilhelm-Ronsch- Str.4,  
 D-01454 Radeberg

Tablica br.1./ Table No.1.

Poz.	TEHNIČKE KARAKTERISTIKE/	Izveštaji o ispitivanju br./ Report about testing	Potvrde o sukladnosti/ Certificate of conformity No :
1.	MFR of granulate and pipes at (230°C / 2,16 kg) the melt mass flow: 0,5 g/10 min  Outside diameter, wall thickness, thickness of fiber layer and glass fibre content of center layer (18 ±3) % according to SKZ A 632 and SKZ A 644	SKZ A632 Ispitni izvještaji: za/for: 32x3,6 mm, 573714/1.1/110852 SKZ A644 Ispitni izvještaji: za/for: 40 x 4,5 mm, 574015/1.1/116491 08.15 SKZ No. A644 za 50 x 5,6 mm, 574014/2.1/114248 03.2015 SKZ No. A632 za 50 x 5,6 mm, 573714/2.1/113254 03.2015 SKZ No. A632 za 63 x 7,1 mm, 573715/1.1/115359 08.2015 SKZ A632 za/for: 75x8,4 mm, 574113/2.1/109180 SKZ A644 Ispitni izvještaji: za/for: 75x8,4 mm, 574115/1.1/116492 08.2015 za/for: 90x 10,1 mm, 574114/2.1/114249 za/for: 110x 12,3 mm, 574114/1.1/112197 SKZ A632 Ispitni izvještaji: za/for: 75x8,4 mm, 573815/1.1/115363 08.06. 15	FOR place of manufacture Wilhelm-Ronsch- Str.4, D- 01454 Radeberg SKZ A 632 FOR place of manufacture Biggen 5, D-57439 Attendorn SKZ A 644 SKZ A632; SKZ A 644 3 str. (engleska verzija) + 3 str. ( njemačka verzija)  Pressure pipe system group 1 and 2 fibre multilayer pipes made of PP-RP/PP- RP-GF/ PP-RP Trade name: aquatherm green pipe PP-R SDR 9 MF RP Radeberg 2013/ 2018 Zahtjevi za ispitivanje i kontrolu su prema HR 3.28:2008 Certifikat od SKZ –TeConA GmbH
2.	MATERIJAL: Hostale PP RP 2503, Mjesto postavljanja prema DNV-GL za cijevi klase III, samo zelene cijevi su za vodu za piće (potable water) , nisu za montažu na mjestima gdje se zahtjeva ispitivanje vatroot. po IMO Res 753 (18) VESTOLEN P9421 raw material, PP-R, PP-RP cijevi i fitinzi	RINA ITALY TYPE APPROVAL MAC156215X G/ 005 09.2015/09.2020  Flamability test 2005CSO13471/2 acc. to ASTM D635	DNV –GL 86069-96 HH od 07.09.2015/ 05.08.2020 ; EMI 20-CPR-2-(C-20/2013) 16.12.2013 (applies to construct product having intended use is being in contact with water for human consumption.)
3.	The requirements according to the test and control specifications HR 3.28:2008 of SKZ –TeConA GmbH	RINA FLAME SPREAD REPORT 96DG706TO and 2005CSO13471/1;  RINA DWG HMMC 6047, HMMC 6049	RINA ITALY TYPE APPROVAL MAC156215X G/ 005 09.2015/09.2020, EMI HUNGARIA 20-CPR-2-(C- 20/2013)





<p>Novi ispitni izvještaji i označavanje SUSTAVA CIJEVI aquatherm green pipe SDR 9 MF PP-RP /PP-RP -GF/PP-RP: <i>New Inspection report and marking aquatherm green pipe SDR 9 MF PP-RP /PP-RP -GF/PP-RP:</i> <i>Inspection report: DNV –GL 86069-96 HH od 07.09.15/ 05.08.20 SKZ A 632 / 644</i></p>
<p><b>Napomena: Boja cijevi je zelena s četiri tamnozeleno trake cijelom duljinom.</b> <i>Notes: Color of the pipes: green with four dark green longitudinal stripes.</i></p>
<p>Prema katalogu br. E10101, 04/2015 aquatherm green pipe- Pipe system made of polypropylene i sve zelene cijevi ovoga tipa SDR 9, serije 4, imaju brand name aquatherm green pipe SDR 9 MF -RP. Acc.to catalog Or.Nr. E10101 date 04/2015 aquatherm green pipe- Pipe system made of polypropylene , all pipes this type SDR 9 , series 4 marking with <b>aquatherm green pipe SDR 9 MF –RP</b> <i>INSPECTION REPORT: SKZ MARK No. A632 573714/1.1/110852</i></p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 32x 3,6 mm Art.Nr. 0370712 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar ( 0370712) 20.02.14. Time M-48351 GP NF 0516 K 07 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b> <i>INSPECTION REPORT: SKZ MARK No. A644 574015/1.1/116491 08.2015</i></p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 40x 4,5 mm Art.Nr. 0370714 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (40x 4,5 /0370714) 15.02.15. 22:22 M-09 GP PJ 0716 K 12 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b> <i>INSPECTION REPORT: SKZ MARK No. A644 574014/2.1/114248 03.2015</i></p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 50x 5,6 mm Art.Nr. 0370716 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (50x 5,6 /0370716) 23.09.14. time M-05 GP PG1116 K09 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b> <i>INSPECTION REPORT: SKZ MARK No. A632 573714/2.1/113254 03.2015</i></p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 50x 5,6 mm Art.Nr. 0370716 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar (50x 5,6 /0370716) 08.08.14. 05:05 M-48351 GP MB1616 K07 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b> <i>INSPECTION REPORT: SKZ MARK No. A632 573715/1.1/115359 08.2015</i></p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 63x 7,1 mm Art.Nr. 0370718 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar (63x 7,1 /0370718) 10.02.15. 14:53 M-48351 GP PG1116 K09 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b> <i>INSPECTION REPORT: SKZ MARK No. A644 574115/1.1/116492 08.2015</i></p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 75x 8,4 mm Art.Nr. 0370720 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (75x 8,4 /0370720) 11.02.15. 02:95 M-08 GP PJ 0716 K12 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b> <i>INSPECTION REPORT: SKZ MARK No. A632 574113/2.1/109180</i></p>
<p>for place of manufacture D-57439 Attendorn</p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 75x 8,4 mm Art.Nr. 0370720 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar ( 0370720) 04.08.13. Time M-08 GP MB 2016 K 36 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b> <i>INSPECTION REPORT: SKZ MARK No. A632 5737815/1.1/115363</i></p>
<p><b>&gt;&gt;a&lt;&lt;</b> aquatherm green pipe SDR 9 MF-RP 75x 8,4 mm Art.Nr. 0370720 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar ( 75X8,4 /0370720) 10.03.15. 06:17 M-48351 GP PJ 0716 K 12/ Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 <b>&gt;&gt;a&lt;&lt;</b></p>





INSPECTION REPORT: SKZ MARK No. A644 574114/2.1/114249
>>a<< aquatherm green pipe SDR 9 MF-RP 90x 10,1 mm Art.Nr. 0370722 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (90x 10,1 /0370722) 23.08.14. 13:56 M-08 GP PE 0616 K 04 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP-GF 7 >>a<<
INSPECTION REPORT: SKZ MARK No. A644 574114/1.1/112197
>>a<< aquatherm green pipe SDR 9 MF-RP 110x 12,3 mm Art.Nr. 0370724 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar opaque (110x 12,3 / 0370724) 05.06.14. 05:27 M-08 GP MB 1616 K 28 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP-GF 7 >>a<<
>>a<< aquatherm green pipe SDR 9 MF-RP ..... >>a<<

**Zaključak:**  
**/ Conclusion/**

Temeljem laboratorijskih izvješća i certifikata prema Tabeli 1. **zaključuje se da se može/ ne može izdati Potvrda o sukladnosti proizvoda br. C/08-04/20-AQGE u skladu s BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Procjena sukladnosti - Deklaracija sukladnosti od dobavljača – Dio 1. Opći zahtjevi**

/ On the basis of laboratory report and certificates according to table 1. concluded that we can to issue / can not to issue Certificate of conformity for this product No. C/08-04/20-AQGE in accordance with BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Estimate of conformity- Declaration about conformity from supplier. Part 1. Common requests, and requests:

- DIN 8077:2007, DIN 8078:2007,
- HR 3.28:2008; Part C, Chapter 1, Appendix 3 of RINA Rules
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008
- BAS EN ISO 15874-5/A1:2019, BAS EN ISO 15874-2:2014.

Izvještaj sačinila: Paula Franjić, dipl.ing.

Signature project manager:

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IZVJEŠĆE O ISPITIVANJU br. /08-04/20-AQGE

Mjesto, datum izdavanja: Mostar, 11.11.2020.

Place and Date of issue:

Rok valjanosti : 11.11.2025. god.

Validiti date:



Direktor:

Signature authorized person:

Mr. sci. Milenko Puce, dipl.ing.





**Certificate of conformity**  
*Baumusterprüfzertifikat*  
No.: C/08-04/20-AQGE

**Product:**

*Product*

**aquatherm green pipe PP-R SDR 9 MF RP  
PP-RP/ PP-RP GF/PP-RP ; reinforced with glass fibre**

**Manufacturer:**

*Fabricant:*

**AQUATHERM GmbH, Germany  
Biggen 5, D-57439 Attendorn**

**Models or types:**

*Art des artikels:*

**aquatherm green pipe PP-R SDR 9 MF RP  
PP-RP / PP-RP GF/PP-RP, reinforced with glass fibre  
32x3,6 mm, 40x 4,5 mm; 50 x 5,6 mm; 63x 7,1 mm, 75 x 8,4 mm, 90x 10,1 mm;  
110x 12,3 mm; 125x14 mm; 160 x 17,9 mm; 200x 22,4 mm; 250x 27,9 mm;  
315x 35,2 mm, 355 x 39,7 mm PN 15 @ 20° C**

**Applicant:**

*Auftraggeber*

**AQUATHERM GmbH, Germany  
Biggen 5, D-57439 Attendorn**

**Authorized company:**

*Bevollmächtigt person*

**ZAVOD ZA ISPITIVANJE KVALITETE d.o.o. Mostar  
Sv. Leopolda Mandića 9/I, 88000 Mostar**

**Technical and order data: (Technical and other data):**

**Description :**

**aquatherm green pipe PP-R SDR 9 MF RP Fusiolen green pipe- composite pipes,  
Class 1/8 bar Class 2/ 8 bar; ( DN 15 do DN 250) PN 15 @20 °C**

**Dimension:**

**DN=(32 do 355)mm; SDR 9 MF (SDR=d/e), S 4 serija cijevi (S=(SDR-1)/2), PN 15 @ 20°C  
Polipropilen PP R PP random kopolimer**

**Instalation :**

**katalog Or.Nr. E10101 04/2015 aquatherm green pipe- Pipe system made of polypropylene**

*Dodatak certifikati:(Add Certificate and):*

**SKZ A632; SKZ A 644, SKZ –TeConA GmbH 10.15/10.2018; DNV –GL 86069-96 HH od 07.09.2015/ 05.08.2020 ;  
Izvešću o ispitivanju br./ Test reports No./ 08-04/20-AQGE ZIK Mostar;**

**RINA ITALY TYPE APPROVAL MAC156215X G/ 005 09.2015/09.2020; EMI HUNGARIA 20-CPR-2-(C-20/2013**

**/ Conclusion/ Ergebnis/:**

**It is certified that the product characteristics are in conformity to the requirements  
oft he folowing regulations and standards:**

- **DIN 8077:2007, DIN 8078:2007,**
- **HR 3.28:2008-3; Part C , Chapter 1, Appendix 3 of RINA Rules**
- **BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008,**
- **BAS EN ISO 15874-5/A1:2019, BAS EN ISO 15874-2:2014.**

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**Place and Date of issue/ Ablaufdatum:**

**Mostar, 11.11.2020.**

**Ausgabeort, Datum, Bearbeiter blatt**

**Date of expiry: 11.11.2025. god.**

**ZAVOD  
ZA ISPITIVANJE KVALITETE  
d.o.o. MOSTAR  
PODRUŽNICA MOSTAR**

**Director/ Direktor:**

Signature authorized person:

**Mr. sci. Milenko Puče, dipl. ing.**





**Test Report**  
*Prüfberichte Nummer*  
**No.: 08-04/20-AQGE**

**Product:**  
*Product*

**aquatherm green pipe PP-R SDR 9 MF RP**  
**PP-RP/ PP-RP GF/PP-RP ; reinforced with glass fibre**  
**tip SDR 9 MF RP acc.to HR 3.28:2008, PN 15 @ 20° C; (32 do 355) mm,**

**Manufacturer:**  
*Fabricant:*

**AQUATHERM GmbH , Germany**  
**Biggen 5, D-57439 Attendorn**

**Tablica br.1./ Table No.1.**

Poz.	Subject of testing	Standard for test methods	Certificate of conformity No :
1.	MFR of granulate and pipes at (230°C / 2,16 kg) the melt mass flow: 0,5 g/10 min  Outside diameter, wall thickness, thickness of fiber layer and glass fibre content of center layer (18 ±3) % according to SKZ A 632 and SKZ A 644	SKZ A632 Ispitni izvještaji: za/for: 32x3,6 mm, 573714/1.1/110852 SKZ A644 Ispitni izvještaji: za/for: 40 x 4,5 mm, 574015/1.1/116491 08.15 SKZ No. A644 za 50 x 5,6 mm, 574014/2.1/114248 03.2015 SKZ No. A632 za 50 x 5,6 mm, 573714/2.1/113254 03.2015 SKZ No. A632 za 63 x 7,1 mm, 573715/1.1/115359 08.2015 SKZ A632 za/for: 75x8,4 mm, 574113/2.1/109180 SKZ A644 Ispitni izvještaji: za/for: 75x8,4 mm, 574115/1.1/116492 08.2015 za/for: 90x 10,1 mm, 574114/2.1/114249 za/for: 110x 12,3 mm, 574114/1.1/112197 SKZ A632 Ispitni izvještaji: za/for: 75x8,4 mm, 573815/1.1/115363 08.06. 15	: FOR place of manufacture Wilhelm-Ronsch- Str.4, D-01454 Radeberg SKZ A 632 FOR place of manufacture Biggen 5, D-57439 Attendorn SKZ A 644 SKZ A632; SKZ A 644 3 str. (engleska verzija) + 3 str. ( njemačka verzija)  Pressure pipe system group 1 and 2 fibre multilayer pipes made of PP-RP/PP-RP-GF/ PP-RP Trade name: aquatherm green pipe PP-R SDR 9 MF RP Radeberg 2013/ 2018 Zahtjevi za ispitivanje i kontrolu su prema HR 3.28:2008 Certifikat od SKZ –TeConA GmbH
2.	MATERIJAL: Hostale PP RP 2503, Mjesto postavljanja prema DNV-GL za cijevi klase III, samo zelene cijevi su za vodu za piće (potable water) , nisu za montažu na mjestima gdje se zahtjeva ispitivanje vatroot. po IMO Res 753 (18) VESTOLEN P9421 raw material, PP-R, PP-RP cijevi i fitinzi	RINA ITALY TYPE APPROVAL MAC156215X G/ 005 09.2015/09.2020  Flamability test 2005CSO13471/2 acc. to ASTM D635	DNV –GL 86069-96 HH od 07.09.2015/ 05.08.2020 ; EMI 20-CPR-2-(C-20/2013) 16.12.2013 (applies to construct product having intended use is being in contact with water for human consumption.)
3.	The requirements according to the test and control specifications HR 3.28:2008 of SKZ –TeConA GmbH	RINA FLAME SPREAD REPORT 96DG706TO and 2005CSO13471/1;  RINA DWG HMMC 6047, HMMC 6049	RINA ITALY TYPE APPROVAL MAC156215X G/ 005 09.2015/09.2020, EMI HUNGARIA 20-CPR-2-(C-20/2013)





NEW Inspection report and marking system of <i>aquatherm green pipe</i> - <i>aquatherm green pipe SDR 9 MF PP-RP /PP-RP -GF/PP-RP:</i> <i>New Inspection report and marking aquatherm green pipe SDR 9 MF PP-RP /PP-RP -GF/PP-RP:</i> <i>Inspection report: DNV –GL 86069-96 HH od 07.09.15/ 05.08.20 SKZ A 632 / 644</i>
<b>Napomena: Boja cijevi je zelena s četiri tamnozelenne trake cijelom duljinom.</b> <i>Notes: Color of the pipes: green with four dark green longitudinal stripes.</i>
Prema katalogu br. E10101, 04/2015 <i>aquatherm green pipe</i> - Pipe system made of polypropylene i sve zelene cijevi ovoga tipa SDR 9, serije 4, imaju brand name <i>aquatherm green pipe SDR 9 MF -RP</i> . Acc.to catalog Or.Nr. E10101 date 04/2015 <i>aquatherm green pipe</i> - Pipe system made of polypropylene , all pipes this type SDR 9 , series 4 marking with <b><i>aquatherm green pipe SDR 9 MF –RP</i></b>
<i>INSPECTION REPORT: SKZ MARK No. A632 573714/1.1/110852</i>
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 32x 3,6 mm Art.Nr. 0370712 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar (0370712) 20.02.14. Time M-48351 GP NF 0516 K 07 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>
<i>INSPECTION REPORT: SKZ MARK No. A644 574015/1.1/116491 08.2015</i>
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 40x 4,5 mm Art.Nr. 0370714 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (40x 4,5 /0370714) 15.02.15. 22:22 M-09 GP PJ 0716 K 12 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>
<i>INSPECTION REPORT: SKZ MARK No. A644 574014/2.1/114248 03.2015</i>
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 50x 5,6 mm Art.Nr. 0370716 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (50x 5,6 /0370716) 23.09.14. time M-05 GP PG1116 K09 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>
<i>INSPECTION REPORT: SKZ MARK No. A632 573714/2.1/113254 03.2015</i>
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 50x 5,6 mm Art.Nr. 0370716 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar (50x 5,6 /0370716) 08.08.14. 05:05 M-48351 GP MB1616 K07 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>
<i>INSPECTION REPORT: SKZ MARK No. A632 573715/1.1/115359 08.2015</i>
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 63x 7,1 mm Art.Nr. 0370718 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar (63x 7,1 /0370718) 10.02.15. 14:53 M-48351 GP PG1116 K09 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>
<i>INSPECTION REPORT: SKZ MARK No. A644 574115/1.1/116492 08.2015</i>
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 75x 8,4 mm Art.Nr. 0370720 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (75x 8,4 /0370720) 11.02.15. 02:95 M-08 GP PJ 0716 K12 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>
<i>INSPECTION REPORT: SKZ MARK No. A632 574113/2.1/109180</i>
for place of manufacture D-57439 Attendorn
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 75x 8,4 mm Art.Nr. 0370720 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar (0370720) 04.08.13. Time M-08 GP MB 2016 K 36 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>
<i>INSPECTION REPORT: SKZ MARK No. A632 5737815/1.1/115363</i>
<b>&gt;&gt;a&lt;&lt;</b> <i>aquatherm green pipe SDR 9 MF-RP 75x 8,4 mm Art.Nr. 0370720 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 632 ISO 21003 Class 1- 8 bar 2- 8 bar ( 75X8,4 /0370720) 10.03.15. 06:17 M-48351 GP PJ 0716 K 12/ Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 &gt;&gt;a&lt;&lt;</i>





INSPECTION REPORT: SKZ MARK No. A644 574114/2.1/114249	
>>a<<	aquatherm green pipe SDR 9 MF-RP 90x 10,1 mm Art.Nr. 0370722 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar (90x 10,1 /0370722) 23.08.14. 13:56 M-08 GP PE 0616 K 04 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 >>a<<
INSPECTION REPORT: SKZ MARK No. A644 574114/1.1/112197	
>>a<<	aquatherm green pipe SDR 9 MF-RP 110x 12,3 mm Art.Nr. 0370724 fusiolen PP-RP/PP-RP-GF/PP-RP SKZ A 644 ISO 21003 Class 1- 8 bar 2- 8 bar opaque (110x 12,3 / 0370724) 05.06.14. 05:27 M-08 GP MB 1616 K 28 / Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-RP- GF 7 >>a<<
>>a<<	aquatherm green pipe SDR 9 MF-RP ..... >>a<<

**/ Conclusion/ Ergebnis/:**

On the basis of laboratory report and certificates according to table 1. . concluded that we can to issue / *can not to issue* Certificate of conformity No.C/08-04/20-AQGE for this product in accordance with **BAS EN ISO/IEC 17050-1:2007**, EN ISO 17050-1:2004,IDT Estimate of conformity- Declaration about conformity from supplier.Part 1. Common requests.

**It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:**

- DIN 8077:2007, DIN 8078:2007,
- HR 3.28:2008; Part C, Chapter 1, Appendix 3 of RINA Rules
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008
- BAS EN ISO 15874-5/A1:2019, BAS EN ISO 15874-2:2014.

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report about testing Nr. /08-04/20-AQGE

Signature project manager: Paula Franjić, dipl.ing.  
Signature project manager:

Place and Date of issue:  
Mostar, 11.11.2020.  
Ausgabeort, Datum, Bearbeiter blatt

Date of expiry: 11.11.2025. god.  
Ablaufdatum



Director/ Direktor:  
Signature authorized person:

Mr. scđ. Milenko Puce, dipl. ing.





**POTVRDA O SUKLADNOSTI**  
*(Certificate of conformity)*  
**br. C/08-02/20-AQGE**

**Proizvod:**

*Product*

**aquatherm green pipe PP-R SDR 7,4 MF**

PP-R / PP-R GF/PP-R (20 do 355) mm, tip SDR 7,4 MF

**Proizvođač:**

*Manufacturer:*

AQUATHERM GmbH, Germany

Biggen 5, D-57439 Attendorn

**Tip:**

*Models or types:*

**aquatherm green pipe PP-R SDR 7,4 MF**

PP-R / PP-R GF/PP-R fusiolen zelene cijevi dimenzija

20x2,8 mm; 25x3,5 mm; 32x4,4 mm; 40x5,5 mm;

50x6,9 mm; 63x8,6 mm; 75x10,3 mm; 90x12,3 mm; 110x15,1 mm;

125x17,1 mm; 160x21,9 mm; 200x27,4 mm; 250x34,2 mm, 315x 42,6 mm, 355x48.

**Class 1/8 bar; 2/6 bar; class 4/10 bar; 5/6 bar (DN 15 do DN 250), PN 16 @20 °C**

**Podnositelj zahtjeva:**

*Applicant:*

AQUATHERM GmbH, Germany

Biggen 5, D-57439 Attendorn

**Ovlaštena tvrtka:**

*Authorized company:*

ZAVOD ZA ISPITIVANJE KVALITETE d.o.o. Mostar

Sv. Leopolda Mandića 9/1, 88000 Mostar

**Tehnički i drugi podaci: (Technical and other data):**

**Opis:**

**aquatherm green pipe PP-R SDR 7,4 MF** PP-R / PP-R GF/PP-R fusiolen green pipe cijevi, zelene su boje s 4 tamno zelene trake po cijeloj duljini. Faser kompozitne zelene cijevi namjenjene su za grijanje i instalaciju hladne i tople vode. Fiber glass content 8 % / fiber glass content of the middle layer 18 %, Class 1/8 bar Class 2/6 bar; class 4/10 bar, Class 5/6 bar (DN 15 do DN 250) PN 16 @20 °C (20 do 250) mm; SDR 7,4 MF (SDR=d/e), S3,2 serija cijevi (S=(SDR-1)/2)

**Dimenzije:**

**Osnovni sastav:**

**Način ugradnje:**

Polipropilen PP R je vrsta PP random kopolimera sa specijalnom kristalnom strukturom.

**katalog Or.Nr. E10101 04/2015 aquatherm green pipe- Pipe system made of polypropylene**

Dodatak certifikatu i: (Add Certificate and): SKZ A314/2000 Wurzburg, ÖVGW W 1.382, IAPMO ; LNEC DH 753-Portugal  
Izvešću o ispitivanju br./ Test reports No./ 08-02/20-AQGE ZIK Mostar; SKZ 37622/1999 od 18.08.2000, NSF/ANSI 14,  
NSF/ANSI 61; SWEDCERT TG Nr.: 0924 11.2009, Ave Technique ATEC 14/11-1695\* V1 21.03.2012  
CSTBat - 178-1695 16.01.2012; DNV -GL 86069-96 HH od 07.09.15/ 05.08.20 ; AENOR No.:006088 10.12/16  
**RINA ITALY TYPE APPROVAL MAC156215X G/002 09.2015/09.2020, AENOR No.:001/5813 2014/2019**

**Zaključak / Conclusion/:**

Utvrđeno je da je proizvod **S U K L A D A N** sa zahtjevima sljedećih normi i propisa :

*It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:*

- DIN 8077:2007, DIN 8078:2007, DIN 16887:1990
- DIN 16962:2000, Part 5; DIN 16962:2000; PART 6,7,8
- DVGW W534:2004; CSA B 137.11; ASTM F 2389
- HR 3.28:2007; EN 15874-1,3: 2013,
- AENOR Specific Rules AL RP 01.72, Part C, Chapter 1, Appendix 3 of RINA Rules
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008

Stranica 1 +3/ Page 1 +3

**Mjesto, datum izdavanja: Mostar, 11.11.2020.**

*Place and Date of issue:*

**Rok valjanosti: 11.11.2025. god.**

*Validiti date:*

**ZAVOD**  
ZA ISPITIVANJE KVALITETE  
d.o.o. MOSTAR  
ODRUŽNICA MOSTAR

MP  
Seal

**Direktor:**

*Signature authorized person:*

Mr.scí. Milenko Puce, dipl.ing.





**IZVJEŠĆE O ISPITIVANJU**  
*(Test Report)*  
**br. 08-02/20-AQGE**

**Proizvod:**  
*Product*

**aquatherm green pipe PP-R SDR 7,4 MF**  
 PP-R / PP-R GF/PP-R (20 do 355) mm, tip SDR 7,4 MF

**Proizvođač:**  
*Manufacturer:*

AQUATHERM GmbH, Germany

**Tablica br.1./ Table No.1.**

Poz.	Predmet ispitivanja/ <i>Subject of testing</i>	Norme za ispitne metode/ <i>Standard for test methods</i>	Izveštaji o ispitivanju br./ <i>Report about testing</i>	Potvrde o sukladnosti/ <i>Certificate of conformity No :</i>
1	MFR granulata (230°C / 2,16 kg) <i>za/for</i> DN20x2,8mm; DN25x3,5mm; DN32x4,4mm; DN40x5,5mm; DN75x10,3mm; DN90x12,3mm; <i>melt mass flow: ≤0,50 g/10min</i>	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT <b>DVGW W544:2007</b> , (DVGW W544:1999);	DN20x2,8mm; DN25x3,5mm; DN32x4,4mm; DN40x5,5mm; DN75x10,3mm; DN90x12,3mm <b>SKZ Ispitni izvještaji: 37622/1999 od 18.08.2000.</b> 23 pag.eng.+23 germ v.; 289408/W1.1/84522 od 11.12.2008 289409/1.1/86699 od 27.07.2009 289407/2.1/79719 od 31.03.2008 289407/W1.1/79736 od 05.02.2008 290209/1.1/86705 od 13.07.2009 290208/1.1/82061 21.07.2008	Zahtjevi za ispitivanje i kontrolu su prema HR 3.28:2007 Certifikat od <b>SKZ br. A314</b>  <b>LNEC DH 753-Portugal 04.2004.;</b>  <b>SWEDCERT TG Nr.: 0924 11.2009;</b>  <b>Ave Tehnique ATEC 14/11-1695* V1 21.03.2012;</b>  <b>CSTBat - 178-1695 16.01.2012;</b>  <b>DNV -GL 86069-96 HH od 07.09.2015/ 05.08.2020 ;</b> <b>ICC-ES REPORT ESR 1613 04/15 -04/16 AENOR No.:006088 10.12/16</b> <b><u>RINA ITALY TYPE APPROVAL MAC156215X G/ 002 09.2015/09.2020</u></b>
2	MFR granulata (190°C / 5 kg) <i>za/for</i> DN 50x6,9mm, DN 63x8,6mm; DN 110x15,1mm; <i>melt mass flow: ≤0,80 g/10min</i>	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT	289409/1.1/86699 od 27.07.2009 289407/2.1/79719 od 31.03.2008 289407/W1.1/79736 od 05.02.2008 290209/1.1/86705 od 13.07.2009 290208/1.1/82061 21.07.2008	
4	Srednji vanjski promjer (mm)/ <i>Middle outside diameter</i>	CEN EN ISO 1873-1:1995 Prema Annex B. Tabela B1. EN ISO 133:2005+AC:2006	289407/2.1/79719 od 31.03.2008 289407/W1.1/79736 od 05.02.2008 290209/1.1/86705 od 13.07.2009 290208/1.1/82061 21.07.2008	
5	Debljina stijenke (mm) <i>Thickness of wall of green pipe</i>	DIN 8077:2007 T 3. <b>DVGW W544:2007</b> , (DVGW W544:1999);	290209/1.1/86705 od 13.07.2009 290208/1.1/82061 21.07.2008	
6	Otpornost na unutarnji tlak pri: <i>Resistance on inside pressure at temperature( °C) and time (h):</i> 110 °C, Vrijeme >8760 h; 6,0 bar 95 °C, Vrijeme >1000 h; 11,5 bar 20 °C, Vrijeme > 1h; 51,0 bar	Tabela 2.DIN 8077:2007 ; DIN 8078:2007	<i>za/for:</i> DN 50x6,9 mm, DN 63x8,6 mm; DN 110x15,1 mm <b>SKZ Ispitni izvještaji: 37622/1999 od 18.08.2000.</b> 23 pag.eng.+23 germ v.; 289406/1.1/72675 od 18.08.2006 289405/1.1/69323 od 11.07.2005 290205/1.1/69324 od 11.07.2005 Napomena : svi ispitni izvještaji imaju 3 str. (engleska verzija) + 3 str. (njemačka verzija) <b>AENOR No.:001/5813 2014/2019 for aquatherm green pipe fittings for PP-R pipes for cold and hot water install.Class 1/10 bar; Class: 2/ 8 bar; 4/10 bar, 5/8 bar</b>	
7	Vanjski vizuelni pregled i pregled označavanja zelenih cijevi / <i>Outside visual examination and marking of green pipes</i>	BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007 Zamjenjuje:/Replaced/: BAS EN 921:2002; EN 921:1994+AC:1995, IDT <b>DVGW W544:2007</b>	289406/1.1/72675 od 18.08.2006 289405/1.1/69323 od 11.07.2005 290205/1.1/69324 od 11.07.2005	
8.	Otpornost pri temperaturama/ <i>Resistance at temperature( °C):</i> (10°C+95°C)	<b>DIN 8078:2007</b> <b>DVGW W534:2004</b> <b>DIN 16887:1990</b>	290205/1.1/69324 od 11.07.2005 Napomena : svi ispitni izvještaji imaju 3 str. (engleska verzija) + 3 str. (njemačka verzija) <b>AENOR No.:001/5813 2014/2019 for aquatherm green pipe fittings for PP-R pipes for cold and hot water install.Class 1/10 bar; Class: 2/ 8 bar; 4/10 bar, 5/8 bar</b>	
9	Opći zahtjevi i ispitivanja za fitege i spojne elemente/ <i>green pipe joints and components of polypropylene/</i> <b>General quality requirements, testing</b>	<b>DIN 16962:2000</b> , Part 5,6, 7, 8 <b>DVGW W534:2004</b>	290205/1.1/69324 od 11.07.2005 Napomena : svi ispitni izvještaji imaju 3 str. (engleska verzija) + 3 str. (njemačka verzija) <b>AENOR No.:001/5813 2014/2019 for aquatherm green pipe fittings for PP-R pipes for cold and hot water install.Class 1/10 bar; Class: 2/ 8 bar; 4/10 bar, 5/8 bar</b>	
10.	The requirements according to the test and control specifications HR 3.28:2007 of SKZ mark No. A 314 , AENOR No.:006088 <i>maksimalni dozvoljeni radni pritisak je na 20 °C, Class 1/8 bar; 2/ 6 bar; class 4 /10 bar; 5/6 bar (DN 15doDN 250)PN 16 @20 °C – Spec.Rules AL RP 01.72. Fiber glass content 8 %/fiber glass content of the middle layer 18 %,</i>		290205/1.1/69324 od 11.07.2005 Napomena : svi ispitni izvještaji imaju 3 str. (engleska verzija) + 3 str. (njemačka verzija) <b>AENOR No.:001/5813 2014/2019 for aquatherm green pipe fittings for PP-R pipes for cold and hot water install.Class 1/10 bar; Class: 2/ 8 bar; 4/10 bar, 5/8 bar</b>	





<p>Stari ispitni izvještaji i označavanje (FUSIOTHERM) <i>aquatherm green pipe SDR 7,4 MF</i>  PP-R 80 /PP-R 80-GF/PP-R80:  <i>Old Inspection report and marking (FUSIOTHERM) system of aquatherm green pipe SDR 7,4 MF</i>  PP-R 80 /PP-R 80-GF/PP-R80:  <i>Inspection report: 289408/W1.1/84522 SKZ mark no. A 314</i></p>
<p>Aquatherm fusiotherm –Faserverbund Rohr 20x2,8 mm Art.nr. 70708 fusiolen PP80-R /PP-R80-GF/PP-R80 SDR7,4 CSA B137.11 ASTM F 2389 metric SKZ A 314 (180F FZ 100PSI) ÖVGW W 1.382 MP52-430 / LNEC DH 753 03.03.08.  Uhrzeit M-10 B827 Made in Germany  / For a safe connection use only original aquatherm fittings!  <i>Inspection report: 289409/1.1/86699 SKZ mark no. A 314</i></p>
<p>Aquatherm fusiotherm –Faserverbund Rohr 25x3,5 mm Art.nr. 70710 fusiolen PP-R80 /PP-R80-GF/PP-R 80 SDR7,4 CSA B137.11 ASTM F 2389 metric SKZ A 314 (180F FZ 100PSI) ÖVGW W 1.382 lic. 2574 /&gt;&gt;&gt;&gt;&gt;/ MP52-430 LNEC DH 753 14.02.09. Uhrzeit M-33 A 638 Made in German  / For a safe connection use only original aquatherm fittings!  <i>Inspection report: 289407/2.1/79719 SKZ mark no. A 314</i></p>
<p>Aquatherm fusiotherm –Faserverbund Rohr 32x4,4 mm Art.nr. 70712 fusiolen PP-R80 /PP-R80-GF/PP-R 80 SDR7,4 CSA B137.11 ASTM F 2389 metric SKZ A 314 (180F FZ 100PSI) ÖVGW W 1.382 lic. 2574 /&gt;&gt;&gt;&gt;&gt;/ LNEC DH 753 04.09.07. Uhrzeit M-31 G746 Made in Germany  / For a safe connection use only original aquatherm fittings!  Aquatherm (fusiotherm –Faserverbund Rohr) SDR 7,4</p>

<p><b>Novi ispitni izvještaji i označavanje (OLD FUSIOTHERM ) SUSTAVA CIJEVI aquatherm green pipe SDR7,4 MF PP-R /PP-R -GF/PP-R:</b>  <b><i>New Inspection report and marking (old FUSIOTHERM SYSTEM OF PIPE FUSIOLEN) aquatherm green pipe SDR7,4 MF PP-R /PP-R -GF/PP-R:</i></b>  <b><i>Inspection report: DNV –GL 86069-96 HH od 07.09.15/ 05.08.20 SKZ A 314 ATEC 14/11-1695* V1 CSTBat - 178-1695 , AENOR No.:006088 maksimalni dozvoljeni radni pritisak PN16 na 20 °C, Class 1/8 bar; 2/ 6 bar; class 4 /10 bar; 5/6 bar (DN 15doDN 250), PN 16 @20 °C – Spec.Rules AL RP 01.72</i></b></p>
<p><b>Napomena: Boja cijevi je zelena s četiri tamnozelenne trake cijelom duljinom.</b>  <b><i>Notes: Color of the pipes: green with four dark green length stripes.</i></b></p>
<p>Prema katalogu br. E10101, <b>04/2015 aquatherm green pipe- Pipe system made of polypropylene i dopisa od Aquatherm/ Vokel 09.2012 sve zelene cijevi ovoga tipa SDR 7,4 su dobile novi brand name aquatherm green pipe SDR 7,4 MF /(stara oznaka: fusiotherm SDR 7,4)</b>  Acc.to catalog Or.Nr. E10101 date 04/2015 aquatherm green pipe- Pipe system made of polypropylene and aquatherm announces change brand names, from 09.2012, all pipes this type SDR 7,4 have had new marking of green pipe with NEW BRAND NAMES:  <b>aquatherm green pipe SDR 7,4 MF, (old : fusiotherm faserverbund pipes SDR 7,4)</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF 20x2,8 mm Art. Nr. 70708 fusiolen PP-R /PP-R -GF/PP-R W® water mark LIC 2437 CSA B 137.11 ASTM F 2389 metric SKZ A 314 ÖVGW W 1.382 □ AENOR 001/823 Class 4/ 10 bar 2/ 6 bar SWEDCERT TG Nr.: 0924 ATEC 14/11-1695* V1 CSTBat - 178-1695 ( Class 2- 6 bar 70 °C i Class 4- 10 bar 60 °C ) ISO 21003 2 / 6 bar ( 20 x 2,8 mm/ 70708) 09.10.15. 04:36 M-10 D06962 Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-GF 7 &gt;&gt;a&lt;&lt;</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF 25x3,5 mm Art. Nr. 70710 fusiolen PP-R /PP-R -GF/PP-R W® water mark LIC 2437 CSA B 137.11 ASTM F 2389 metric SKZ A 314 ÖVGW W 1.382 □ AENOR 001/823 Class 4/ 10 bar 2/ 6 bar SWEDCERT TG Nr.: 0924 ATEC 14/11-1695* V1 CSTBat - 178-1695 ( Class 2- 6 bar 70 °C i Class 4- 10 bar 60 °C ) ISO 21003 2 / 6 bar (25x3,5 mm/ 70710) 09.10.15. 04:30 M-33 D06962 Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-GF 7 &gt;&gt;a&lt;&lt;</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF 32x 4,4 mm Art. Nr. 70712 fusiolen PP-R /PP-R -GF/PP-R W® water mark LIC 2437 CSA B 137.11 ASTM F 2389 metric SKZ A 314 ÖVGW W 1.382 □ AENOR 001/823 Class 4/ 10 bar 2/ 6 bar SWEDCERT TG Nr.: 0924 ATEC 14/11-1695* V1 CSTBat - 178-1695 ( Class 2- 6 bar 70 °C i Class 4- 10 bar 60 °C ) ISO 21003 2 / 6 bar ( 32 x 4,4 mm/ 70712) 03.02.15. 13:45 M-33 D80201 Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-GF 7 &gt;&gt;a&lt;&lt;</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF..... &gt;&gt;a&lt;&lt; (aquatherm logo) acc. to ICC ES ESR 1613</b></p>





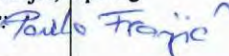
## Zaključak: / Conclusion/

Temeljem laboratorijskih izvješća i certifikata prema Tabeli 1. zaključuje se da se može/ ne može izdati Potvrda o sukladnosti proizvoda br. C/08-02/20-AQGE u skladu s BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Procjena sukladnosti - Deklaracija sukladnosti od dobavljača – Dio 1. Opći zahtjevi I zahtjeva/

On the basis of laboratory report and certificates according to table 1. concluded that we can to issue / can not to issue Certificate of conformity for this product No. C/08-02/20-AQGE in accordance with BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Estimate of conformity- Declaration about conformity from supplier. Part 1. Common requests, and requests:

- DIN 8077:2007, DIN 8078:2007,
- DIN 16962:2000, Part 5, DIN 16962:2000; PART 6,7,8 ; DIN 16887:1990,
- EN 15874-1,3: 2013,
- DVGW W534:2004; CSA B 137.11; ASTM F 2389,
- HR 3.28:2007; AENOR Specific Rules AL RP 01.72,
- Part C, Chapter 1, Appendix 3 of RINA Rules,
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008.

Izveštaj sačinila: Paula Franjić, dipl.ing.

Signature project manager: 

Stranica 3 od 3/ Page 3 from 3

IZVJEŠĆE O ISPITIVANJU br. /08-02/20-AQGE

Mjesto, datum izdavanja: Mostar, 11.11.2020.  
Place and Date of issue:

Rok valjanosti : 11.11.2025. god.  
Validiti date:

MP  
Seal  
ZAVOD  
ZA ISPITIVANJE KVALITETE  
d.o.o. MOSTAR  
PODRUŽNICA MOSTAR

Direktor:  
Signature authorized person:

  
Mr. sci. Milenko Puce, dipl.ing.





## Certificate of conformity

No.: C/08-02/20-AQGE

Baumusterprüfzertifikat No.

<b>Product:</b> <i>Product</i>	<b>aquatherm green pipe PP-R SDR 7,4 MF</b> PP-R / PP-R GF/PP-R (20 do 355) mm, tip SDR 7,4 MF
<b>Manufacturer:</b> <i>Fabricant:</i>	<b>AQUATHERM GmbH , Germany</b> Biggen 5, D-57439 Attendorn
<b>Models or types:</b>	<b>aquatherm green pipe PP-R SDR 7,4 MF</b> PP-R / PP-R GF/PP-R fusiolen zelene cijevi dimenzija 20x2,8 mm; 25x3,5 mm; 32x4,4 mm; 40x5,5 mm; 50x6,9 mm; 63x8,6 mm; 75x10,3 mm; 90x12,3 mm; 110x15,1 mm; 125x17,1 mm; 160x21,9 mm; 200x27,4 mm; 250x34,2 mm, 315x 42,6 mm, 355x48. Class 1/8 bar; 2/ 6 bar; class 4 /10 bar; 5/6 bar( DN 15 do DN 250) PN 16 @20 °C
<i>Art des artikels:</i>	
<b>Applicant:</b> <i>Auftraggeber</i>	<b>AQUATHERM GmbH , Germany</b> Biggen 5, D-57439 Attendorn
<b>Authorized company:</b> <i>Bevollmächtigt person</i>	ZAVOD ZA ISPITIVANJE KVALITETE d.o.o. Mostar Sv. Leopolda Mandića 9/I, 88000 Mostar

**Technical and order data:** (*Technical and other data*):

<b>Description :</b>	<b>aquatherm green pipe PP-R SDR 7,4 MF</b> PP-R / PP-R GF/PP-R fusiolen green pipe cijevi, Class 1/8 bar Class 2/ 6 bar; class 4 / 10 bar, Class 5/6 bar ( DN 15 do DN 250) PN 16 @20 °C
<b>Dimension:</b>	DN= (20 to 250)mm; SDR 7,4 MF (SDR=d/e), S3,2 series ( S=(SDR-1)/2) Polipropilen PP R PP random kopolimer
<b>Installation :</b>	<b>katalog Or.Nr. E10101 04/2015 aquatherm green pipe- Pipe system made of polypropylene</b>

**Add Certificate and):** SKZ A314/2000 Wurzburg, ÖVGW W 1.382, IAPMO ; LNEC DH 753-Portugal  
./ **Test reports No./ 08-02/20-AQGE ZIK Mostar; SKZ 37622/1999 od 18.08.2000, NSF/ANSI 14, NSF/ANSI 61;**  
**SWEDCERT TG Nr.: 0924 11.2009, Ave Tehnique ATEC 14/11-1695\* V1 21.03.2012**  
**CSTBat - 178-1695 16.01.2012; DNV -GL 86069-96 HH od 07.09.15/ 05.08.2020 ; AENOR No.:006088 10.12/16**  
**RINA ITALY TYPE APPROVAL MAC156215X G/ 002 09.2015/09.2020 , AENOR No.:001/5813 2014/2019**

### / Conclusion/ Ergebnis/:

It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:

- DIN 8077:2007, DIN 8078:2007, DIN 16887:1990
- DIN 16962:2000, Part 5; DIN 16962:2000; PART 6,7,8
- DVGW W534.:2004; CSA B 137.11; ASTM F 2389
- HR 3.28:2007; EN 15874-1,3: 2013,
- AENOR Specific Rules AL RP 01.72, Part C, Chapter 1, Appendix 3 of RINA Rules
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008

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**Place and Date of issue:**

Mostar, 11.11.2020.

*Ausgabeort, Datum, Bearbeiter blatt*

**Date of expiry: 11.11.2025. god.**

*Ablaufdatum*



**Director/ Direktor:**  
Signature authorized person:

Mr.sci. Milenko Puce, dipl. ing.





**Test Report**  
*Prüfberichte Numm*  
**No.:08-02/20-AQGE**

**Proizvod:**  
*Product*

**aquatherm green pipe PP-R SDR 7,4 MF**  
 PP-R/ PP-R GF/PP-R (20 do 355) mm, tip SDR 7,4 MF

**Manufacturer:**  
*Fabricant:*

**AQUATHERM GmbH, Germany**  
 Biggen 5, D-57439 Attendorn

**Tablica br.1./ Table No.1.**

Poz.	Subject of testing	Standard for test methods	Report about testing	Certificate of conformity No.:
1	MFR granulata (230°C / 2,16 kg) za/for DN20x2,8 mm; DN25x3,5mm; DN32x4,4 mm; DN40x5,5mm; DN75x10,3 mm; DN 90x12,3mm; melt mass flow: ≤0,50 g/10min	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT <b>DVGW W544:2007,</b> (DVGW W544:1999);	DN20x2,8mm; DN25x3,5mm; DN32x4,4mm; DN40x5,5mm; DN75x10,3mm; DN 90x12,3mm <b>SKZ Ispitni izvještaji:</b> <b>37622/1999 od 18.08.2000.</b> 23 pag.eng.+23 germ v.; 289408/W1.1/84522 od 11.12.2008: 89409/1.1/86699 od 27.07.2009 289407/2.1/79719 od 31.03.2008; 289407/W1.1/79736 od 05.02.2008 290209/1.1/86705 od 13.07.2009, 290208/1.1/82061 od 21.07.2008	Zahtjevi za ispitivanje i kontrolu su prema HR 3.28:2007 Certifikat od <b>SKZ br. A314</b>
2		EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT		<b>LNEC DH</b> <b>753-Portugal</b> <b>04.2004.;</b>
4	Srednji vanjski promjer (mm)/ <i>Middle outside diameter</i>	CEN EN ISO 1873-1:1995 Prema Annex B. Tabela B1. EN ISO 1133:2005+AC:2006		<b>SWEDCERT</b> <b>TG Nr.: 0924</b> <b>11.2009;</b> <b>Ave Tehnique</b> <b>ATEC 14/11-</b> <b>1695* V1</b> <b>21.03.2012;</b>
5	Debljina stijenke (mm) <i>Thickness of wall of green pipe;</i>	DIN 8077:2007 <b>Tabela 3.</b> <b>DVGW W544:2007,</b> <b>ISO 4065;</b>		<b>CSTBat -</b> <b>178-1695</b> <b>16.01.2012;</b>
6	Otpornost na unutarnji tlak pri: <i>Resistance on inside pressure at</i> <i>temperature(°C) and time (h):</i> 110 °C, Vrijeme >8760 h; 6,0 bar 95 °C, Vrijeme >1000 h; 11,5 bar 20 °C, Vrijeme > 1h; 51,0 bar	Tabela 2. DIN 8077:2007 ; DIN 8078:2007	za/for: DN 50x6,9 mm, DN 63x8,6 mm; DN 110x15,1 mm  <b>SKZ Ispitni izvještaji:</b> <b>37622/1999 od 18.08.2000.</b> 23 pag.eng.+23 germ v.; 289406/1.1/72675 od 18.08.2006 289405/1.1/69323 od 11.07.2005 290205/1.1/69324 od 11.07.2005	<b>DNV -GL</b> <b>86069-96 HH</b> <b>od 07.09.2015/</b> <b>05.08.2020 ;</b> <b>ICC-ES</b> <b>REPORT</b> <b>ESR 1613</b> <b>04/15 -04/16</b> <b>AENOR</b> <b>No.:006088</b> <b>10.12/16</b> <b>RINA ITALY</b> <b>TYPE</b> <b>APPROVAL</b> <b>MAC156215X</b> <b>G/002</b> <b>09.2015/09.2020</b>
7	Vanjski vizuelni pregled i pregled označavanja zelenih cijevi / <i>Outside visual examination and</i> <i>marking of green pipes</i>	BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007 Zamjenjuje:/Replaced/: BAS EN 921:2002; EN 921:1994+AC:1995, IDT <b>DVGW W544:2007,</b> (DVGW W544:1999);		<b>REPORT</b> <b>ESR 1613</b> <b>04/15 -04/16</b> <b>AENOR</b> <b>No.:006088</b> <b>10.12/16</b> <b>RINA ITALY</b> <b>TYPE</b> <b>APPROVAL</b> <b>MAC156215X</b> <b>G/002</b> <b>09.2015/09.2020</b>
8.	Otpornost pri temperaturama/ <i>Resistance at temperature(°C):</i> (10 °C do 95 °C)	<b>DIN 8078:2007</b> <b>DVGW W534:2004</b> <b>DIN 16887:1990</b>	Napomena : svi ispitni izvještaji imaju 3 str. (engleska verzija) + 3 str. (njemačka verzija)	
9	/ green pipe joints and components of polypropylene/ <i>General quality</i> <i>requirements, testing</i>	DIN 16962:2000, Part 5,6, 7, 8 <b>DVGW W534:2004</b>		
10.	The requirements according to the test and control specifications <b>HR 3.28:2007 of SKZ mark No. A 314; AENOR No.:006088</b> Class 1/8 bar; Class 2/6 bar; class 4 / 10 bar, Class 5/6 bar ; maksimalni dozvoljeni radni pritisak na 20 °C, Class 1/8 bar; 2/ 6 bar; class 4 /10 bar; 5/6 bar( DN 15 do DN 250) PN 16 @20 °C - Specific Rules AL RP 01.72 , Fiber glass content 8 % / fiber glass content of the middle layer 18 %,		<b>AENOR No.:001/5813</b> 2014/2019 for aquatherm green pipe fittings for PP-R pipes for cold and hot water installations Class 1/10 bar; Class 2/ 8 bar; class 4 / 10 bar, Class 5/8 bar ;	





<p><b>Old Inspection report and marking (FUSIOTHERM) system of aquatherm green pipe SDR 7,4 MF PP-R 80 /PP-R 80-GF/PP-R80:</b>  <b>Inspection report: 289408/W1.1/84522 SKZ mark no. A 314</b></p>
<p>Aquatherm fusiotherm –Faserverbund Rohr 20x2,8 mm Art.nr. 70708 fusiolen PP80-R /PP-R80-GF/PP-R80 SDR7,4 CSA B137.11 ASTM F 2389 metric SKZ A 314 (180F FZ 100PSI) ÖVGW W 1.382 MP52-430 / LNEC DH 753 03.03.08. Uhrzeit M-10 B827 Made in Germany  / For a safe connection use only original aquatherm fittings!</p>
<p><b>Inspection report: 289409/1.1/86699 SKZ mark no. A 314</b></p>
<p>Aquatherm fusiotherm –Faserverbund Rohr 25x3,5 mm Art.nr. 70710 fusiolen PP-R80 /PP-R80-GF/PP-R 80 SDR7,4 CSA B137.11 ASTM F 2389 metric SKZ A 314 (180F FZ 100PSI) ÖVGW W 1.382 lic. 2574 /&gt;&gt;&gt;&gt;&gt;/ MP52-430 LNEC DH 753 14.02.09. Uhrzeit M-33 A 638 Made in German  / For a safe connection use only original aquatherm fittings!</p>
<p><b>Inspection report: 289407/2.1/79719 SKZ mark no. A 314</b></p>
<p>Aquatherm fusiotherm –Faserverbund Rohr 32x4,4 mm Art.nr. 70712 fusiolen PP-R80 /PP-R80-GF/PP-R 80 SDR7,4 CSA B137.11 ASTM F 2389 metric SKZ A 314 (180F FZ 100PSI) ÖVGW W 1.382 lic. 2574 /&gt;&gt;&gt;&gt;&gt;/ LNEC DH 753 04.09.07. Uhrzeit M-31 G746 Made in Germany  / For a safe connection use only original aquatherm fittings!</p>
<p>Aquatherm (fusiotherm –Faserverbund Rohr) SDR 7,4</p>

<p><b>New Inspection report and marking (old FUSIOTHERM SYSTEM OF PIPE FUSIOLEN) aquatherm green pipe SDR7,4 MF PP-R /PP-R -GF/PP-R:</b>  <b>Inspection report: DNV –GL 86069-96 HH od 07.09.15/ 05.08.20 SKZ A 314</b>  <b>ATEC 14/11-1695* V1 CSTBat - 178-1695</b></p>
<p><b>Notes: Color of the pipes: green with four dark green length stripes.</b></p>
<p>Acc.to catalog Or.Nr. E10101 date 04/2015 aquatherm green pipe- Pipe system made of polypropylene and aquatherm announces change brand names, from 09.2012, all pipes this type SDR 7,4 have had new marking of green pipe with NEW BRAND NAMES:  <b>aquatherm green pipe SDR 7,4 MF, (old : fusiotherm faser composite pipes SDR 7,4)</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF 20x2,8 mm Art. Nr. 70708 fusiolen PP-R /PP-R -GF/PP-R W<sup>®</sup> water mark LIC 2437 CSA B 137.11 ASTM F 2389 metric SKZ A 314 ÖVGW W 1.382 □ AENOR 001/823 Class 4/ 10 bar 2/ 6 bar SWEDCERT TG Nr.: 0924 ATEC 14/11-1695* V1 CSTBat - 178-1695 ( Class 2- 6 bar 70 °C i Class 4- 10 bar 60 °C ) ISO 21003 2 / 6 bar ( 20 x 2,8 mm/ 70708) 09.10.15. 04:36 M-10 D06962 Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-GF 7 &gt;&gt;a&lt;&lt;</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF 25x3,5 mm Art. Nr. 70710 fusiolen PP-R /PP-R -GF/PP-R W<sup>®</sup> water mark LIC 2437 CSA B 137.11 ASTM F 2389 metric SKZ A 314 ÖVGW W 1.382 □ AENOR 001/823 Class 4/ 10 bar 2/ 6 bar SWEDCERT TG Nr.: 0924 ATEC 14/11-1695* V1 CSTBat - 178-1695 ( Class 2- 6 bar 70 °C i Class 4- 10 bar 60 °C ) ISO 21003 2 / 6 bar (25x3,5 mm/ 70710) 09.10.15. 04:30 M-33 D06962 Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-GF 7 &gt;&gt;a&lt;&lt;</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF 32x 4,4 mm Art. Nr. 70712 fusiolen PP-R /PP-R -GF/PP-R W<sup>®</sup> water mark LIC 2437 CSA B 137.11 ASTM F 2389 metric SKZ A 314 ÖVGW W 1.382 □ AENOR 001/823 Class 4/ 10 bar 2/ 6 bar SWEDCERT TG Nr.: 0924 ATEC 14/11-1695* V1 CSTBat - 178-1695 ( Class 2- 6 bar 70 °C i Class 4- 10 bar 60 °C ) ISO 21003 2 / 6 bar ( 32 x 4,4 mm/ 70712) 03.02.15. 13:45 M-33 D80201 Made in Germany / For a safe connection use only original aquatherm fittings! Δ PP-GF 7 &gt;&gt;a&lt;&lt;</b></p>
<p><b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 7,4 MF..... &gt;&gt;a&lt;&lt; (aquatherm logo) acc. to ICC ES ESR 1613</b></p>





### ***/Conclusion/Ergebnis/:***

On the basis of laboratory report and certificates according to table 1. . concluded that we can to issue / can not to issue Certificate of conformity No.C/08-02/20-AQGE for this product in accordance with **BAS EN ISO/IEC 17050-1:2007**, EN ISO 17050-1:2004, IDT Estimate of conformity- Declaration about conformity from supplier.Part 1. Common requests.

**It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:**

- **DIN 8077:2007, DIN 8078:2007,**
- **DIN 16962:2000, Part 5 , DIN 16962:2000; PART 6,7,8 , DIN 16887:1990,**
- **DVGW W534.:2004; CSA B 137.11; ASTM F 2389,**
- **HR 3.28:2007; EN 15874-1,3: 2013,**
- **AENOR Specific Rules AL RP 01.72**
- **Part C , Chapter 1, Appendix 3 of RINA Rules**
- **BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008**

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report about testing Nr. /08-02/20-AQGE

Signature project manager: Paula Franjić, dipl.ing.

**Place and Date of issue:**

**Mostar, 11.11.2020.**

*Ausgabeort, Datum, Bearbeiter blatt*

**Date of expiry: 11.11.2025. god.**

*Ablaufdatum*



**Director/ Direktor:**

Signature authorized person:

Mr. sci. Milenko Puce, dipl. ing.





**POTVRDA O SUKLADNOSTI**  
*(Certificate of conformity)*  
**br. C/08-01/20-AQGE**

<b>Proizvod:</b> <i>Product:</i>	<b>aquatherm green pipe PP-R SDR 6 S</b> (fusiotherm) zelene cijevi i fitinzi SDR 6 i spojni elementi
<b>Proizvođač:</b> <i>Manufacturer:</i>	AQUATHERM GmbH, Germany Biggen 5, D-57439 Attendorn
<b>Tip:</b> <i>Models or types:</i>	<b>aquatherm green pipe SDR 6 S</b> fusiolen PP-R zelene cijevi i fitinzi za instalaciju hladne i tople vode; grupa 1: 16x2,7 mm, 20x3,4 mm, 25x4,2 mm, 32x5,4 mm, 40x6,7 mm, 50x8,3 mm, 63x10,5 mm; grupa 2: 75x12,5 mm, 90x15 mm, 110x18,3 mm ; (16 do 110) mm, Class 1/ 10 bar; 2/ 8 bar ; 4/10 bar; 5/ 6 bar; PN 20 @ 20°C
<b>Podnositelj zahtjeva:</b> <i>Applicant:</i>	AQUATHERM GmbH, Germany
<b>Ovlaštena tvrtka:</b> <i>Authorized company:</i>	ZAVOD ZA ISPITIVANJE KVALITETE d.o.o. Mostar Sv. Leopolda Mandića 9/I, 88000 Mostar

**Tehnički i drugi podaci:** *(Technical and other data):*

<b>Opis:</b>	<b>aquatherm green pipe PP-R SDR 6 S</b> PP-R fusiolen cijevi su zelene boje. Ove cijevi su namjenjene prvenstveno za instalaciju pitke hladne i tople vode.
<b>Dimenzije:</b>	(16 do 110) mm; SDR 6 S (SDR=d/e), S 2,5 serija cijevi ( S=(SDR-1)/2), PN 20 @ 20°C
<b>Osnovni sastav:</b>	Polipropilen PP R je vrsta PP random kopolimera.
<b>Način ugradnje:</b>	katalogu Or.Nr. E10101 04/2015 aquatherm green pipe- Pipe system made of polypropylene

**Dodatak certifikati:** *(Add Certifikati):* : DVGW DW-8501AS2120; DVGW DW-8501AU2224; ÖVGW 1.110 ICC ESR 1613 15.05.06.; NSF, LNEC DH 742, 2004 Portugal, EMI Hungary A-2234/2006, IAPMO USA Izvešća o ispitivanju br/ Test Report No/ TGM- VA KU 20951, 14.06.2006; TGM-VA KU 22558, 17.03.2009.; 08-01/20-AQGE CSTBat - 178-1591 26.03.2013; Report ATEC 14/10 -1591; DNV -GL 86069-96 HH od 07.09.2015/ 05.08.2020; RINA ITALY TYPE APPROVAL MAC156215X G/001 09.2015/09.2020, AENOR 005816 10.12/12.2016

**Zaključak / Conclusion/:**

Utvrđeno je da je proizvod **S U K L A D A N** sa zahtjevima sljedećih normi i propisa :  
*It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:*

- Pravilnik o zdravstvenoj ispravnosti vode za piće, „Sl.list BiH“ br. 40/10
- DIN 8077:2007, DIN 8078:2007,
- EN ISO 15874-4,3,5:2003+AC:2007 ; UNE EN ISO 15874-1,2:2004/A1:2007
- DIN 16962:2000, AENOR Specific Rules RP 01.52
- DVGW W534.:2004; DVGW W544:2007 ,
- DVGW W 270:1999; BGA KTW:1977; ÖNORM B 5014-1:2007; CSA B137.11; ASTM F 2389,
- Part C, Chapter 1, Appendix 3 of RINA Rules

Stranica 1 +4/ Page 1+4

**Mjesto, datum izdavanja: Mostar, 11.11.2020.**  
*Place and Date of issue:*

**Rok valjanosti : 11.11.2025. god.**  
*Validiti date:*

**ZAVOD**  
*Seal*  
ZA ISPITIVANJE KVALITETE  
d.o.o. MOSTAR  
ODRUŽNICA MOSTAR

**Direktor:**  
*Signature authorized person:*

  
Mr. sci. Milenko Puce, dipl.ing.





## IZVJEŠĆE O ISPITIVANJU

(Test Report)  
 br. 08-01/20-AQGE

**Proizvod:**  
 Product:

**aquatherm green pipe SDR 6 S**

**Proizvođač:**  
 Manufacturer:

**AQUATHERM GmbH, Germany**  
 Biggen 5, D-57439 Attendorn

**Tablica br.1./ Table No.1**

Poz.	Predmet ispitivanja/ Subject of testing	Norme za ispitne metode/ Standard for test metod	Izvjestaji o ispitivanju br./ Test Reports No	Potvrde br./ Type examination Certificate registration No :
1	MFR granulata (230°C / 2,16 kg) Maseni protok granulata/ The melt mass-flow rate ≤0,50 g/10min	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT <b>DVGW W544:2007</b> , (DVGW W544:1999);	-Control test reports: 27606/2.2/74867 od 26.01.2007. (SKZ); 27606/2.1/74866 od 26.01.2007. (SKZ); 195506/2.4/74859 od 29.12.2006. (SKZ); 27506/1.1/72620 od 05.07.2006. (SKZ);	<b>DVGW DW-8501</b> <b>AS2120</b> 27.06.2007/14.02.2012/ 07-0062-WNV Date of issue/ of expire za PP-R cijevi DN16, 20, 25, 32, 40, 50, 63 for PP-R pipes DN16, 20, 25, 32, 40, 50,63
2	MFR cijevi/ MFR of green pipes Pri /at (230°C / 2,16 kg) ≤0,50 g/10min	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT CEN EN ISO 1873-1:1995 Prema Aneksu B. Tabela B1./ According Annex B. Table B1.	-KTW- Test Reports: C-1502249-07-Bs/st od 26.04.2007. (WHY); C-143269-06-Sf/Sf od 15.09.2006. (WHY); -Microbiolo. test report: W 1466-68/2001/G od 06.07.2001 (WHY)	<b>ÖVGW 1.110</b> <b>ICC ESR 1613</b> (acc.to ASTM F2389) 01.04.2009. <b>NSF/ANSI 14</b> 31.07.2007, <b>LNEC DH 742, 2004;</b> <b>RINA ITALY TYPE</b> <b>APPROVAL</b> <b>MAC156215X G/ 001</b> 09.2015/09.2020
3	MFR razlika masenog protoka granulata i zelene cijevi, tip M/ MFR/MVR melt mass flow difference between granulat and green pipe, type M (0,02-0,04) g/10min; 230°C / 2,16 kg Za DN16x2,7mm ; (190°C / 5 kg) MFR granulata 0,46 g/10min MFR cijevi 0,53 g/10min	EN ISO 1133:2005+AC:2006  DIN 8077:2007 Tabela 3.	-TGM- VA KU 20951, 14.06.2006.test.period: KW41/05-KW24/07 -TGM- VA 22558, 17.03.2009.; Test.period: KW48/08-KW03/09	
4	Srednji vanjski promjer (mm)/ Middle outside diameter(mm)	<b>DVGW W544:2007</b> , (DVGW W544:1999);		
5	Debljina stijenke (mm) Thickness of wall of pipe(mm)	<b>ENISO15874:2003</b> <b>AC:2007</b>		
6	Otpornost na unutarnji tlak pri: Resistance on inside pressure at temperature(°C) and time (h): 1) 20°C , Vrijeme 1h; 16,0 MPa 2) 95°C , Vrijeme 22h; 4,3 MPa 3) 95°C , Vrijeme 165h; 3,8 MPa 4) 95°C , Vrijeme 1000h; 3,5 MPa 5) 110°C , Vrijeme 8760h; 1,9 MPa	Tabela 2.DIN 8077:2007 ; DIN 8078:2007 BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007	-mechanic test reports: 146703/2.1/62509 od 27.05.2005. (SKZ); 146703/2.1/62509 od 22.04.2004. (SKZ); 146703/2.3/62512 od 22.04.2004. (SKZ); 146703/2.4/62513 od 22.04.2004. (SKZ); 146603/2.1/62508 od 02.03.2004 (SKZ);	DVGW DW-8501 AU2224 16.06.2006/25.06.2009/ 04-0445-WNA Datum izd./datum valjanosti for group 2 za PP-R DN 75, 90 i 110 ÖVGW 1.110 ICC ESR 1613 (acc.to ASTM F2389) 01.04.2009.
7	Vanjski vizuelni pregled i pregled označavanja aquatherm zelenih cijevi / Outside visual examination and marking of aquatherm green pipes	Zamjenjuje:/Replaced/ BAS EN 921:2002; EN 921:1994+AC:1995, IDT	-KTW- Test Reports: C-107711-03-Ko od 03.07.2003. (WHY); -Microbiological test report: W 1466/2001/G od 06.07.2001 (WHY) W 1467/2001/G od 06.07.2001 (WHY)	<b>NSF/ANSI 14 07.2007</b> (Acc.to ASTM F2389 and CSA B137.11) LNEC DH 742, 2004; CSTBat - 178-1591 ATEC 14/10 -1591 AENOR 005816 10.12/12.2016 DNV -GL 86069-96 HH od 07.09.2015/ 05.08.2020
8	Otpornost pri temperaturama/ Resistance at temperature(°C): (10 °C ÷ 95 °C)	<b>DVGW W544:2007</b> , (DVGW W544:1999); <b>DIN 8078:2007</b> <b>DVGW W534.:2004</b> <b>ASTM F2389</b> <b>and CSA B137.11</b>		
9	Opći zahtjevi i ispitivanja za zelene fitinge i spojne elemente/ green pipe joints and components of polypropylene/ General quality requirements, testing (16 do 110) mm, Class 1/ 10 bar; class 2/ 8 bar ; 4/10 bar; 5/ 6 bar	DIN 16962:2000, Part 5, 6,7,8, <b>DVGW W534.:2004</b> ASTM F2389 and CSA B137.11 AENOR 005816 Specific Rules RP 01.52	- TGM- VA KU 20951, 14.06.2006.test.period: KW41/05-KW24/07 -TGM- VA 22558, 17.03.2009.; Test.period: KW48/08-KW03/09	





### **ISPITNI IZVJEŠTAJI I CERTIFIKATI ZA INSTALACIJE PITKE VODE, GRUPA 1**

Inspection report and approval for drinking water installation, group 1:

### **I STARO OZNAČAVANJE SUSTAVA aquatherm green pipe PP-R SDR 6 S CIJEVI FUSIOLEN PP-R , ZELENE BOJE:**

AND **OLD** MARKING (FUSIOTHERM) SYSTEM OF GREEN PIPE FUSIOLEN PP-R ; GREEN COLOUR:

<i>Inspection report: 27507/1.1/76796 DVGW approval no.: DW-8501 AS2120</i>
Aquatherm fusiotherm 16x2,7 mm Art. 10006 fusiole PP-R DIN 8077/8078 lic. 2437 />>>>>/ DVGW AS 2120 SDR6 NSF pw CSA B137.11 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW ASTM F 2389 NSF 51 ICC ESR 1613 EN 15874 A S2,5 Class1/10bar/ Class 2/8bar opaque 07.11.06 03:42 Uhrzeit M-3 B057 Made in Germany/ For a safe connection use only original aquatherm fittings!
<i>Inspection report: 27508/1.1/82024 DVGW approval no.: DW-8501 AS2120</i>
Aquatherm fusiotherm 20x3,4 mm Art. 10008 fusiole PP-R DIN 8077/8078 lic. 2437 />>>>>/ DVGW AS 2120 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 UNI IIP 353 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 09.02.08.Uhrzeit M-3 B827 Made in Germany/ for a safe connection use only original aquatherm fittings!/ <i>Inspection report: 27509/1.1/86557 DVGW approval no.: DW-8501 AS2120</i>
Aquatherm fusiotherm 25x4,2 mm Art. 10010 fusiole PP-R DIN 8077/8078 W Watermark lic. 2437 />>>>>/ DVGW AS 2120 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 UNI IIP 353 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 5/6 bar LNEC DH 742 opaque 11.02.09.Uhrzeit M-4 A638 Made in Germany/ for a safe connection use only original aquatherm fittings!/ <i>Inspection report: 27505/1.1/69279 DVGW approval no.: DW-8501 AS2120</i>
Aquatherm fusiotherm 32x 5,4 mm Art. 10012 fusiole PP-R DIN 8077/8078 DVGW AS 2120 SDR6 (PN20) NSF pw 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW 16.02.05. Uhrzeit M-3 A775 Made in Germany/ <i>Inspection report: 27504/2.1/66659 DVGW approval no.: DW-8501 AS2120</i>
Aquatherm fusiotherm 40x 6,7 mm Art. 10014 fusiole PP-R 80 DIN 8077/8078 DVGW AS 2120 SDR6 (PN20) NSF pw 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW 02.02.04. Uhrzeit M-3 A775 Made in Germany/ <i>Inspection report: 27506/2.1/74864 DVGW approval no.: DW-8501 AS2120</i>
Aquatherm fusiotherm 50x 8,3 mm Art. 10016 fusiole PP-R DIN 8077/8078 lic. 2437 />>>>>/ DVGW AS 2120 SDR6 (PN20) NSF pw CSA B137.11 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW ASTM F 2389 NSF 51 ICC ESR 1613 Uhrzeit M-7 A763 Made in Germany/ <i>Inspection report: 27506/1.1/72620 DVGW approval no.: DW-8501 AS2120</i>
Aquatherm fusiotherm 63x 10,5 mm Art. 10018 fusiole PP-R DIN 8077/8078 lic. 2437 />>>>>/ DVGW AU 2224 SDR6 (PN20) NSF pw CSA B137.11 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW ASTM F 2389 NSF 51 ICC ESR 1613 Uhrzeit M-7 A407 Made in Germany/ <i>Inspection report: 146607/2.1/79680 DVGW approval no.: DW-8501 AU2224</i>
Aquatherm fusiotherm 75x 12,5 mm Art. 10020 fusiole PP-R DIN 8077/8078 lic. 2437 />>>>>/ DVGW AU 2224 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 31.07.07 Uhrzeit M-7B045 Made in Germany/ for a safe connection use only original aquatherm fittings!/ <i>Inspection report: 146607/2.1/79680 DVGW approval no.: DW-8501 AU2224</i>





## ISPITNI IZVJEŠTAJI I CERTIFIKATI ZA INSTALACIJE PITKE VODE, GRUPA 2

Inspection report and approval for drinking water installation, group 2

**I STARO OZNAČAVANJE SUSTAVA aquatherm green pipe PP-R SDR 6 S CIJEVI FUSIOLEN PP-R, ZELENE BOJE:**

**AND OLD MARKING (FUSIO THERM) SYSTEM OF GREEN PIPE FUSIOLEN PP-R ; GREEN COLOUR:**

Inspection report: 146607/2.1/79680 DVGW approval no.: DW-8501 AU2224
Aquatherm fusiotherm 75x 12,5 Art. 10020 fusio len PP-R DIN 8077/8078 lic. 2437 />>>>>/ DVGW AU 2224 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 31.07.07 Uhrzeit M-7B045 Made in Germany/ for a safe connection use only original aquatherm fittings!/ Inspection report: 146609/1.1/86583 DVGW approval no.: DW-8501 AU2224
Aquatherm fusiotherm 90x 15 Art. 10022 fusio len PP-R DIN 8077/8078 lic. 2437 W Watermark DVGW AU 2224 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 30.01.09 Uhrzeit M-7A638 Made in Germany/ for a safe connection use only original aquatherm fittings!/ Prema katalogu br. E10101, 04/2015 aquatherm green pipe- Pipe system made of polypropylene i dopisa od Aquatherm/ Vokel 09.2012 sve zelene cijevi ovoga tipa SDR 6 su dobile novi brand name <u>aquatherm green pipe SDR 6 S</u> /(stara oznaka: fusiotherm SDR 6) Acc.to catalog Or.Nr. E10101 date 04/2015 aquatherm green pipe- Pipe system made of polypropylene and aquatherm announces change brand names, from 09.2012, all pipes this type SDR 6 have had new marking of green pipe with NEW BRAND NAMES: aquatherm green pipe SDR 6 S, (old : fusiotherm SDR 6) >>a<< aquatherm green pipe SDR 6 S 16x 2,7 mm Art. Nr. 10006 fusio len,..... >>a<< (aquatherm logo) MARKING acc. to ICC ES ESR 1613 Inspection report: 08-01C/15-AQGE >>a<< aquatherm green pipe SDR 6 S 20x 3,4 mm Art. 10008 fusio len PP-R DIN 8077/8078 W @ water mark LIC 2437 KIWA DVGW AS 2120 67 °C/10 bar /50a CSA B 137.11 ASTM F 2389 metric ICC ESR-1613 ψ 1126/92 MP 353 UNI EN ISO 15874 ÖVGW W 1.110 TW <cert > □ AENOR -001/824 EN 15874 A S 2,5 Class 1/10 bar 2/8 bar 4/10 bar 5/ 6 bar opaque N EN ISO 15874-2 geprüft ATEC 14/10 -1591 CSTBat -178-1591 ( Class 2/ 6 bar 70 °C i Class 4/ 10 bar 60 °C ( 20x 3,4/ 10008) 17.07.15. 01:04 M-04 A 01107 Made in Germany// for a safe connection use only original aquatherm fittings! / Δ PP >>a<< Inspection report: 08-01C/15-AQGE >>a<< aquatherm green pipe SDR 6 S 25x 4,2 mm Art. 10010 fusio len PP-R DIN 8077/8078 W @ water mark LIC 2437 KIWA DVGW AS 2120 67 °C/10 bar /50a CSA B 137.11 ASTM F 2389 metric ICC ESR-1613 ψ 1126/92 MP 353 UNI EN ISO 15874 ÖVGW W 1.110 TW <cert > □ AENOR -001/824 EN 15874 A S 2,5 Class 1/10 bar 2/8 bar 4/10 bar 5/ 6 bar opaque N EN ISO 15874-2 geprüft ATEC 14/10 -1591 CSTBat -178-1591 ( Class 2/ 6 bar 70 °C i Class 4/ 10 bar 60 °C (25x 4,2/ 10010) 30.08.15. 11:44 M-07 A 05528 Made in Germany// for a safe connection use only original aquatherm fittings! / Δ PP >>a<< Inspection report: 08-01C/15-AQGE >>a<< aquatherm green pipe SDR 6 S 32x 5,4 mm Art. 10012 fusio len PP-R DIN 8077/8078 W @ water mark LIC 2437 KIWA DVGW AS 2120 67 °C/10 bar /50a CSA B 137.11 ASTM F 2389 metric ICC ESR-1613 ψ 1126/92 MP 353 UNI EN ISO 15874 ÖVGW W 1.110 TW <cert > □ AENOR -001/824 EN 15874 A S 2,5 Class 1/10 bar 2/8 bar 4/10 bar 5/ 6 bar opaque N EN ISO 15874-2 geprüft ATEC 14/10 -1591 CSTBat -178-1591 ( Class 2/ 6 bar 70 °C i Class 4/ 10 bar 60 °C ( 32x 5,4/ 10012) 25.04.14. 01:33 M-31 GPA 1046M23 Made in Germany// for a safe connection use only original aquatherm fittings! / Δ PP >>a<<





## Zaključak:

*/Conclusion/:*

*Temeljem laboratorijskih izvješća i certifikata prema Tabeli 1. zaključuje se da se može/ ne može izdati Potvrda o sukladnosti proizvoda br. C/08-01/20-AQGE u skladu s BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Procjena sukladnosti - Deklaracija sukladnosti od dobavljača – Dio 1. Opći zahtjevi i /*

*On the basis of laboratory report and certificates according to table 1. concluded that we **can to issue / can not to issue Certificate of conformity for this product No. C/08-01/20-AQGE in accordance with BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Estimate of conformity- Declaration about conformity from supplier. Part 1. Common requests, and:***

*da je proizvod u skladu sa zahtjevima:*

- Pravilnik o zdravstvenoj ispravnosti vode za piće „Sl.list BiH“ br. 40/10,
- DIN 8077:2007, DIN 8078:2007,
- EN ISO 15874-4,3,5:2003+AC:2007 ; UNE EN ISO 15874-1,2:2004/A1:2007,
- DVGW W534:2004; DVGW W544:2007 , (DVGW W544:1999);
- DVGW W 270:1999; BGA KTW:1977; ÖNORM B 5014-1:2007;
- CSA B137.11; ASTM F 2389, AENOR Specific Rules RP 01.52,
- Part C , Chapter 1, Appendix 3 of RINA Rules

**Izveštaj sačinio/la:** Paula Franjić, dipl.ing.

*Signature project manager:*

*Stranica 4 od 4/ Page 4 from 4*

IZVJEŠĆE O ISPITIVANJU br. /08-01/20-AQGE

**Mjesto, datum izdavanja:** Mostar, 11.11.2020.

*Place and Date of issue:*

**Rok valjanosti :** 11.11.2025. god.

*Validiti date:*

MP  
Seal  
ZAVOD  
ZA ISPITIVANJE KVALITETE  
d.o.o. MOSTAR  
ODRUŽNICA MOSTAR

**Direktor:**

*Signature authorized person:*

Mr. sci. Milenko Puce, dipl.ing.





**Certificate of conformity**  
*Baumusterprüfzertifikat*  
No.: C/08-01/20-AQGE

**Proizvod:** aquatherm green pipe PP-R SDR 6 S  
*Product :* (fusiotherm) green pipe and fittings for instalacion cold and warm water

**Manufacturer:** AQUATHERM GmbH , Germany  
*Fabricant:* Biggen 5, D-57439 Attendorn

**Models or Types:** aquatherm green pipe SDR 6 S  
*Art des artikels:* fusiolen PP-R green pipe and fittings for instalacion cold and warm water;  
group 1: 16x2,7 mm, 20x3,4 mm, 25x4,2 mm, 32x5,4 mm,  
40x6,7 mm, 50x8,3 mm, 63x10,5 mm;  
group 2: 75x12,5 mm, 90x15 mm, 110x18,3 mm  
(16 do 110) mm, Cclass 1/ 10 bar; 2/ 8 bar ; 4/10 bar; 5/ 6 bar; PN 20 @ 20°C

**Applicant:** AQUATHERM GmbH , Germany  
*Auftraggeber* Biggen 5, D-57439 Attendorn

**Authorized company:** QUALITY SUPERINTENDING COMPANY I.t.d. Mostar  
*Bevollmächtigt person* Sv. Leopolda Mandića 9/I, 88000 Mostar

**Tehnički i drugi podaci: (Technical and other data):**

**Description:** aquatherm green pipe PP-R SDR 6 S PP- R fusiolen PN20 @ 20°C  
**Dimension:** DN=(16 do 110) mm; SDR 6 S (SDR=d/e), S 2,5 series ( S=(SDR-1)/2)  
Polipropilen PP R PP random kopolimera.  
**Instalation:** katalog Or.Nr. E10101 04/2015 aquatherm green pipe- Pipe system made of polypropylene

**(Add Certifikati) :** DVGW DW-8501AS2120; DVGW DW-8501AU2224; ÖVGW 1.110  
ICC ESR 1613 15.05.06.; NSF, LNEC DH 742, 2004 Portugal, EMI Hungary A-2234/2006, IAPMO USA  
/ Test Report No/TGM- VA KU 20951, 14.06.2006; TGM-VA KU 22558, 17.03.2009.; 08-01/20-AQGE  
CSTBat - 178-1591 26.03.2013; Report ATEC 14/10 -1591; DNV -GL 86069-96 HH od 07.09.2015/ 05.08.2020;  
RINA ITALY TYPE APPROVAL MAC156215X G/ 001 09.2015/09.2020; AENOR 005816 10.12/12.2016

**/ Conclusion/ Ergebnis/:**

**It is certified that the product characteristics are in conformity to the requirements  
oft he folowing regulations and standards:**

- Law about halth care system validity of drinking water Of. BiH No. 40/04,
- DIN 8077:2007, DIN 8078:2007,
- EN ISO 15874-3,5:2003+AC:2007 ; UNI EN ISO 15874-1,2:2004/A1:2007
- DIN 16962:2000, Part , AENOR Specific Rules RP 01.52,
- DVGW W534.:2004, DVGW W544:2007 , (DVGW W544:1999);
- DVGW W 270:1999; BGA KTW:1977; ÖNORM B 5014-1:2007; CSA B137.11; ASTM F 2389
- Part C , Chapter 1, Appendix 3 of RINA Rules

Page 1+4

**Place and Date of issue/ Ablaufdatum:**  
Mostar, 11.11.2020.

**Ausgabeort, Datum, Bearbeiter blatt**  
Date of expiry.: 11.11.2025. god.



**Director/ Direktor:**  
Signature authorized person:

Mr. sci. Milenko Puce, dipl. ing.





**Test Report**  
*Prüfberichte Nummer*  
**No.:08-01/20-AQGE**

**Proizvod:**  
*Product:*

**aquatherm green pipe PP-R SDR 6 S**

**Manufacturer:**  
*Fabricant:*

**AQUATHERM GmbH, Germany**  
 Biggen 5, D-57439 Attendorn

*Table No.1*

Poz.	Subject of testing	Standard for test metod	Test Reports No	Type examination Certificate registrat. No:
1	MFR granulat (230°C / 2,16 kg) <i>The melt mass-flow rate</i> ≤0,50 g/10min	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT <i>DVGW W544:2007,</i> <i>(DVGW W544:1999);</i>	-Control test reports: 27606/2.2/74867 od 26.01.2007. (SKZ); 27606/2.1/74866 od 26.01.2007. (SKZ); 195506/2.4/74859 od 29.12.2006. (SKZ); 27506/1.1/72620 od 05.07.2006. (SKZ);	DVGW DW-8501 AS2120 27.06.2007/14.02.2012/ 07-0062-WNV <i>Date of issue/date of</i> <i>expire</i>
2	/ MFR of green pipes Pri lat (230°C / 2,16 kg) ≤0,50 g/10min	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT CEN EN ISO 1873-1:1995 Prema Aneksu B. Tabela B1./ <i>According Annex B.</i> <i>Table B1.</i>	-KTW- Test Reports: C-1502249-07-Bs/st od 26.04.2007. (WHY); C-143269-06-Sf/Sf od 15.09.2006. (WHY); -Microbiological test report: W 1466-68/2001/G od 06.07.2001 (WHY)	for PP-R pipes DN16, 20, 25, 32, 40, 50,63 ÖVGW 1.110 ICC ESR 1613 (acc.to ASTM F2389) 01.04.2009. NSF/ANSI 14 31.07.2007, LNEC DH 742, 2004 <u>RINA ITALY TYPE</u> <u>APPROVAL</u> <u>MAC156215XG/001</u> <u>09.2015/09.2020</u>
3	MFR/MVR melt mass flow difference between granulat and green pipe, type M (0,02-0,04) g/10min; 230°C / 2,16 kg  Za DN16x2,7mm ; (190°C / 5 kg) MFR granulata 0,46 g/10min MFR cijevi 0,53 g/10min	EN ISO 1133:2005+AC:2006	-TGM- VA KU 20951, 14.06.2006.test.period: KW41/05-KW24/07 -TGM- VA 22558, 17.03.2009.; Test.period: KW48/08-KW03/09	
4	Srednji vanjski promjer (mm)/ <i>Middle outside diameter(mm)</i>	DIN 8077:2007 Tabela 3. <i>DVGW W544:2007,</i> <i>(DVGW W544:1999);</i> ENISO15874:2003 AC:2007 Tabela 2.DIN 8077:2007 ; DIN 8078:2007		
5	<i>Thickness of wall of pipe(mm)</i>	BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007		
6	<i>Resistance on inside pressure at</i> <i>temperature(°C) and time (h):</i> 1) 20°C, Vrijeme 1h; 16,0 MPa 2) 95°C, Vrijeme 22h; 4,3 MPa 3) 95°C, Vrijeme 165h; 3,8 MPa 4) 95°C, Vrijeme 1000h; 3,5 MPa 5) 110°C, Vrijeme 8760h; 1,9 MPa	/Replaced/ BAS EN 921:2002; EN 921:1994+AC:1995, IDT	-mechanic test reports: 146703/2.1/62509 od 27.05.2005. (SKZ); 146703/2.1/62509 od 22.04.2004. (SKZ); 146703/2.3/62512 od 22.04.2004. (SKZ); 146703/2.4/62513 od 22.04.2004. (SKZ); 146603/2.1/62508 od 02.03.2004 (SKZ); -KTW- Test Reports: C-107711-03-Ko od 03.07.2003. (WHY); -Microbiological test report: W 1466/2001/G od 06.07.2001 (WHY) W 1467/2001/G od 06.07.2001 (WHY)	DVGW DW-8501 AU2224 16.06.2006/25.06.2009/ 04-0445-WNA <i>Date of issue/date of</i> <i>expire</i> for group 2 for PP-R pipes DN 75, 90 i 110., ÖVGW 1.110 ICC ESR 1613 (acc.to ASTM F2389) 01.04.2009. NSF/ANSI 14 31.07.2007 (Acc.to ASTM F2389 and CSA B137.11) LNEC DH 742, 2004 CSTBat - 178-1591 ATEC 14/10 -1591 <u>AENOR 005816</u> <u>10.12/12.2016</u> <u>DNV -GL 86069-96 HH</u> <u>od 07.09.2015/05.08.2020</u>
7	<i>/ Outside visual examination and</i> <i>marking of aquatherm green pipes</i>	<i>DVGW W544:2007,</i> <i>(DVGW W544:1999);</i> DIN 8078:2007 <i>DVGW W534:2004</i> ASTM F2389 and CSA B137.11		
8	<i>Resistance at temperature(°C):</i> (10°C-95°C)	DIN 16962:2000, Part 5, 6,7,8 <i>DVGW W534:2004</i> ASTM F2389 and CSA B137.11 <u>AENOR 005816</u> <i>Specific Rules RP 01.52</i>		
9	Opći zahtjevi i ispitivanja za zelene fittinge i spojne elemente/ <i>green pipe joints and</i> <i>components of polypropylene/ General</i> <i>quality requirements, testing</i> (16 do 110) mm, Cclass 1/ 10 bar; class 2/ 8 bar ; 4/10 bar; 5/ 6 bar			





**Inspection report and approval for drinking water installation, group 1:  
AND OLD MARKING (FUSIOTHERM) SYSTEM OF GREEN PIPE FUSIOLEN PP-R ;  
GREEN COLOUR:**

<p><i>Inspection report: 27507/1.1/76796 DVGW approval no.: DW-8501 AS2120</i></p> <p>Aquatherm fusiotherm 16x2,7 mm Art. 10006 fusiolen PP-R DIN 8077/8078 lic. 2437 /&gt;&gt;&gt;&gt;&gt;/ DVGW AS 2120 SDR6 NSF pw CSA B137.11 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW ASTM F 2389 NSF 51 ICC ESR 1613 EN 15874 A S2,5 Class1/10bar/ Class 2/8bar opaque 07.11.06 03:42 Uhrzeit M-3 B057 Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><i>Inspection report: 27508/1.1/82024 DVGW approval no.: DW-8501 AS2120</i></p> <p>Aquatherm fusiotherm 20x3,4 mm Art. 10008 fusiolen PP-R DIN 8077/8078 lic. 2437 /&gt;&gt;&gt;&gt;&gt;/ DVGW AS 2120 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 UNI IIP 353 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 09.02.08.Uhrzeit M-3 B827 Made in Germany/ for a safe connection use only original aquatherm fittings!/  </p>
<p><i>Inspection report: 27509/1.1/86557 DVGW approval no.: DW-8501 AS2120</i></p> <p>Aquatherm fusiotherm 25x4,2 mm Art. 10010 fusiolen PP-R DIN 8077/8078 W Watermark lic. 2437 /&gt;&gt;&gt;&gt;&gt;/ DVGW AS 2120 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 UNI IIP 353 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 5/6 bar LNEC DH 742 opaque 11.02.09.Uhrzeit M-4 A638 Made in Germany/ for a safe connection use only original aquatherm fittings!/  </p>
<p><i>Inspection report: 27505/1.1/69279 DVGW approval no.: DW-8501 AS2120</i></p> <p>Aquatherm fusiotherm 32x5,4 mm Art. 10012 fusiolen PP-R DIN 8077/8078 DVGW AS 2120 SDR6 (PN20) NSF pw 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW 16.02.05. Uhrzeit M-3 A775 Made in Germany/  </p>
<p><i>Inspection report: 27504/2.1/66659 DVGW approval no.: DW-8501 AS2120</i></p> <p>Aquatherm fusiotherm 40x6,7 mm Art. 10014 fusiolen PP-R 80 DIN 8077/8078 DVGW AS 2120 SDR6 (PN20) NSF pw 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW 02.02.04. Uhrzeit M-3 A775 Made in Germany/  </p>
<p><i>Inspection report: 27506/2.1/74864 DVGW approval no.: DW-8501 AS2120</i></p> <p>Aquatherm fusiotherm 50x8,3 mm Art. 10016 fusiolen PP-R DIN 8077/8078 lic. 2437 /&gt;&gt;&gt;&gt;&gt;/ DVGW AS 2120 SDR6 (PN20) NSF pw CSA B137.11 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW ASTM F 2389 NSF 51 ICC ESR 1613 Uhrzeit M-7 A763 Made in Germany/  </p>
<p><i>Inspection report: 27506/1.1/72620 DVGW approval no.: DW-8501 AS2120</i></p> <p>Aquatherm fusiotherm 63x10,5 mm Art. 10018 fusiolen PP-R DIN 8077/8078 lic. 2437 /&gt;&gt;&gt;&gt;&gt;/ DVGW AU 2224 SDR6 (PN20) NSF pw CSA B137.11 67°C/10bar (180f fz 100psi)ψ 1126/92 ÖVGW W 1.110 TW ASTM F 2389 NSF 51 ICC ESR 1613 Uhrzeit M-7 A407 Made in Germany/  </p>
<p><i>Inspection report: 146607/2.1/79680 DVGW approval no.: DW-8501 AU2224</i></p> <p>Aquatherm fusiotherm 75x12,5 mm Art. 10020 fusiolen PP-R DIN 8077/8078 lic. 2437 /&gt;&gt;&gt;&gt;&gt;/ DVGW AU 2224 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 31.07.07 Uhrzeit M-7B045 Made in Germany/ for a safe connection use only original aquatherm fittings!/  </p>





**Inspection report and approval for drinking water installation, group 2  
AND OLD MARKING (FUSIOTHERM) SYSTEM OF GREEN PIPE FUSIOLEN PP-R ;  
GREEN COLOUR:**

<p><b>Inspection report:146607/2.1/79680 DVGW approval no.: DW-8501 AU2224</b></p> <p>Aquatherm fusiotherm 75x 12,5 Art. 10020 fusiofen PP-R DIN 8077/8078 lic. 2437 /&gt;&gt;&gt;&gt;&gt;/ DVGW AU 2224 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 31.07.07 Uhrzeit M-7B045 Made in Germany/ for a safe connection use only original aquatherm fittings!/ <b>Inspection report:146609/1.1/86583 DVGW approval no.: DW-8501 AU2224</b></p> <p>Aquatherm fusiotherm 90x 15 Art. 10022 fusiofen PP-R DIN 8077/8078 lic. 2437 W Watermark DVGW AU 2224 67°C/10bar SDR6 CSA B137.11 ASTM F 2389 metric ICC ESR 1613 ψ 1126/92 ÖVGW W 1.110 TW (180f fz 100psi) AENOR-001/317 EN 15874 A S 2,5 Class1/10 2/8bar 4/10bar 5/6 bar LNEC DH 742 opaque 30.01.09 Uhrzeit M-7A638 Made in Germany/ for a safe connection use only original aquatherm fittings!/ Acc.to catalog Or.Nr. E10101 date 04/2015 aquatherm green pipe- Pipe system made of polypropylene and aquatherm announces change brand names, from 09.2012, all pipes this type SDR 6 have had new marking of green pipe with NEW BRAND NAMES: aquatherm green pipe SDR 6 S, (old : fusiotherm SDR 6) <b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 6 S 25x4,2 mm Art. Nr. 10010 fusiofen,..... &gt;&gt;a&lt;&lt; (aquatherm logo) MARKING acc. to ICC ES ESR 1613</b> <b>Inspection report: 08-01C/15-AQGE</b> <b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 6 S 20x 3,4 mm Art. 10008 fusiofen PP-R DIN 8077/8078 W ® water mark LIC 2437 KIWA DVGW AS 2120 67 °C/10 bar /50a CSA B 137.11 ASTM F 2389 metric ICC ESR- 1613 ψ 1126/92 MP 353 UNI EN ISO 15874 ÖVGW W 1.110 TW &lt;cert&gt; □ AENOR -001/824 EN 15874 A S 2,5 Class 1/10 bar 2/8 bar 4/10 bar 5/ 6 bar opaque N EN ISO 15874-2 geprüft ATEC 14/10 -1591 CSTBat -178-1591 ( Class 2/ 6 bar – 70 °C i Class 4/ 10 bar – 60 °C ( 20x 3,4/ 10008) 17.07.15. 01:04 M-04 A 01107 Made in Germany/ / for a safe connection use only original aquatherm fittings! / Δ pp</b> <b>Inspection report: 08-01C/15-AQGE</b> <b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 6 S 25x 4,2 mm Art. 10010 fusiofen PP-R DIN 8077/8078 W ® water mark LIC 2437 KIWA DVGW AS 2120 67 °C/10 bar /50a CSA B 137.11 ASTM F 2389 metric ICC ESR- 1613 ψ 1126/92 MP 353 UNI EN ISO 15874 ÖVGW W 1.110 TW &lt;cert&gt; □ AENOR -001/824 EN 15874 A S 2,5 Class 1/10 bar 2/8 bar 4/10 bar 5/ 6 bar opaque N EN ISO 15874-2 geprüft ATEC 14/10 -1591 CSTBat -178-1591 ( Class 2/ 6 bar – 70 °C i Class 4/ 10 bar – 60 °C (25x 4,2/ 10010) 30.08.15. 11:44 M-07 A 05528 Made in Germany/ / for a safe connection use only original aquatherm fittings! / Δ pp</b> <b>Inspection report: 08-01C/15-AQGE</b> <b>&gt;&gt;a&lt;&lt; aquatherm green pipe SDR 6 S 32x 5,4 mm Art. 10012 fusiofen PP-R DIN 8077/8078 W ® water mark LIC 2437 KIWA DVGW AS 2120 67 °C/10 bar /50a CSA B 137.11 ASTM F 2389 metric ICC ESR- 1613 ψ 1126/92 MP 353 UNI EN ISO 15874 ÖVGW W 1.110 TW &lt;cert&gt; □ AENOR -001/824 EN 15874 A S 2,5 Class 1/10 bar 2/8 bar 4/10 bar 5/ 6 bar opaque N EN ISO 15874-2 geprüft ATEC 14/10 -1591 CSTBat -178-1591 ( Class 2/ 6 bar – 70 °C i Class 4/ 10 bar – 60 °C ( 32x 5,4/ 10012) 25.04.14. 01:33 M-31 GPA 1046M23 Made in Germany/ / for a safe connection use only original aquatherm fittings! / Δ pp</b></p>	<p><b>report about testing /08-01/20-AQGE</b></p>
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## ***/Conclusion/Ergebnis/:***

On the basis of laboratory report and certificates according to table 1. . concluded that we can to issue / *can not to issue* Certificate of conformity No.C/08-01/20-AQGE for this product in accordance with **BAS EN ISO/IEC 17050-1:2007**, EN ISO 17050-1:2004, IDT Estimate of conformity- Declaration about conformity from supplier. Part 1. Common requests.

**It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:**

- Law about health care system validity of drinking water Of. BiH No. 40/04,
- DIN 8077:2007, DIN 8078:2007,
- EN ISO 15874-3,5:2003+AC:2007 ; UNI EN ISO 15874-1,2:2004/A1:2007 ;
- DIN 16962:2000, Part 5,
- DVGW W534.:2004; DVGW W544:2007 , (DVGW W544:1999);
- DVGW W 270:1999; BGA KTW:1977; ÖNORM B 5014-1:2007;
- CSA B137.11; ASTM F 2389, AENOR Specific Rules RP 01.52,
- Part C , Chapter 1, Appendix 3 of RINA Rules

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report about testing Nr. /08-01/20-AQGE

Signature project manager: Paula Franjić, dipl.ing.  
Signature project manager: *Paula Franjić*

**Place and Date of issue:**  
Mostar, 11.11.2020.  
*Ausgabeort, Datum, Bearbeiter blatt*

**Date of expiry::** 11.11.2025. god.  
*Ablaufdatum*

Seal  
siegel  
ZAVOD  
ZA ISPITIVANJE KVALITETE  
D.O.O. MOSTAR  
PODRUŽNICA MOSTAR

**Director/ Direktor:**  
Signature authorized person:

*Miljenko Puce*  
Mr. sci. Miljenko Puce, dipl. ing.





**POTVRDA O SUKLADNOSTI**  
*(Certificate of conformity)*  
**br. C/08-03/20-AQGE**

<b>Proizvod :</b> <i>Produkt :</i>	<b>aquatherm blue pipes SDR 7,4/11 MF PP-R GF</b> <b>PP-R ili PP-R GF za PP-R, koji je pojačan staklenim vlaknima</b>
<b>Proizvođač:</b> <i>Manufacturer:</i>	<b>AQUATHERM GmbH , Germany</b> <b>Biggen 5, D-57439 Attendorn</b>
<b>Tip:</b> <i>Model or types:</i>	<b>aquatherm blue pipe SDR 7,4/11 MF</b> <b>PP-R ili PP-R GF za PP-R, koji je pojačan staklenim vlaknima</b> <b>20x2,8 mm; 25x3,5 mm; SDR 7,4 MF, PN 16 @20 °C</b> <b>32x2,9 mm; 40x3,7 mm; 50x4,6 mm, 63x5,8 mm; SDR 11 MF</b> <b>75x6,8 mm; 90x8,2 mm; 110x10,0 mm; SDR 11 MF, PN 10 @20 °C</b> <b>125x11,4mm; 160x14,6mm; 200x18,2mm; 250x22,7 mm. SDR 11 MF</b>
<b>Applicant:</b> <i>Auftraggeber</i>	<b>AQUATHERM GmbH , Germany</b> <b>Biggen 5, D-57439 Attendorn</b>
<b>Authorized company:</b> <i>Authorized company</i>	<b>ZAVOD ZA ISPITIVANJE KVALITETE d.o.o. Mostar</b> <b>Sv. Leopolda Mandića 9/I, 88000 Mostar</b>

Technical and other data:  
Color of the pipes: **aquatherm blue pipes SDR 7,4/11 MF PP R fusiolen** is blue with four green length stripes.  
Field of application are products of water supply and for HVACR technology. Katalog 10101, 04/2015.

Add Certificat No.: 1. UA1.107.0005618-05 od 08.12.2005/ 20.01.2008. from STATE COMITEE OF UKRAINE ACCORDING TO QUESTION ABOUT TEHNIČK REGULATIVE –STATEMENT SYSTEM OF CERTIFIKATE, KIEV, UKRAINA; 2. TIN POLAND PROBATA TECHNICZNA No.: AT/2006-02-1566 WARSZAWA , POLAND . 3. LNEC PORTUGAL DOCUMENTO DE HOMOLOGACAO DH 747 ; 4. EMI HUNGARY - NON PROFIT COMPANY FOR QUALITY CONTROL AND INNOV. IN BUILDING; EME: A.854/1999 , NEW CERT. UE: A-2234/2006; 5.NSF /ANSI STANDARD 14 od 31.07.2007 for Fittings; 6. ICC-ES Evaluation Report No. ESR-1613 od 01.04.2009 / 01.04.2011 ; AENOR Madrid No.: 001/006087 02.12.13/ 11.4.17; 7. IAPMO M-0622/ 04.09-04.10. for fittings DNV–GL 86069-96 HH od 07.09.15/ 05.08.20  
Report about testing No /*Prüfbericht*/: 08-03/20-AQGE from ZIK d.o.o. MOSTAR

**Zaključak/ Conclusion/:**

**It is certified that the product characteristics are in conformity to the requirements of the folowing regulations and standards:**

- EN ISO 15874-2:2005; EN 728:1999; EN 743:1996;
- BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007, Replaced/ersetzt/: BAS EN 921:2002; EN 921:1994+AC:1995, IDT;
- EN ISO 1183:2004; ISO 10508: 2006 (replaced ISO 10508: 1995);
- EN ISO 1133:2005+AC:2006, ISO 1133:2005+AC:2006, IDT;
- AS EN ISO 3126:2007 ; EN ISO 3126:2005 IDT ; BAS EN ISO 7686:2007 ; EN ISO 7686:2005 IDT;
- ASTM F 2389, CSA B137.11; NSF/ANSI 14. , HR 3.28:2008.
- *AENOR Specific Rules AL RP 01.72*, Part C , Chapter 1, Appendix 3 of RINA Rules.
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008

Page /*Seitennummer* : 1 + 4

**Place and Date of issue:**  
**Mostar, 11.11.2020.**

*Ausgabeort, Datum, Bearbeiter blatt*

**Date of expiry: 11.11.2025. god.**  
*Ablaufdatum*

Seal  
**ZAVOD ZA ISPITIVANJE KVALITETE**  
d.o.o. MOSTAR  
**'ODRUŽNICA MOSTAR**

**Director/ Direktor:**  
Signature authorized person:

  
Mr. sci. Milenko Puce, dipl. ing.





# IZVJEŠĆE O ISPITIVANJU

(Test Report)

br. 08-03/20-AQGE

**Proizvod :**

Produkt :

aquatherm blue pipes SDR 7,4/11 MF PP-R GF  
za PP-R, koji je pojačan staklenim vlaknima  
(20, 25, 32) mm; SDR 7,4 MF, S3,2 series of pipes, PN 16 @20 °C  
(32 do 450) mm SDR11 MF, S5 series of pipes, PN 10 @20 °C  
Application class/ design pressure 1/8 bar; 2/6 bar; 4/10 bar; 5/6 bar  
for (32 do 355) mm, SDR 11 MF; for (20, 25, 32) mm, SDR 7,4 MF

**Proizvođač:**

Manufacturer:

AQUATHERM GmbH, Germany  
Biggen 5, D-57439 Attendorn

**Table No.1 for Europe**

Pos.	Subject of testing	Standard for test metod	Report about testing and Certificate of conformity No :
1	MFR granulat at (230°C / 2,16 kg) the melt mass flow: g/10min	EN ISO1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT EN ISO 1183:2004	1. UA1.107.0005618-05 od 08.12.2005/ 20.01.2008., Ukr SEPRO, KIEV, UKRAINA; 2pages
2	MFR of pipes at (230°C / 2,16 kg) the melt mass flow: (0,2-0,5) g/10min	BAS EN ISO 3126:2007 ; EN ISO 3126:2005 IDT BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007, Replaced: BAS EN 921:2002; EN 921:1994+AC:1995, IDT	2. TIN POLAND APROBATA TECHNICZNA No.: AT/2006-02-1566 ; 10 pages PL 02-656 WARSZAWA , POLAND
4	Middle outside diameter(mm)		
5	Thickness of wall of pipe(mm)		
6	Resistance on inside pressure at temperature( °C) and time (h): 1) 16 MPa; t=20°C, τ= 1h; 2) 3,8 MPa; t=95°C, τ= 165h; 3) 3,5 MPa; t=95°C, τ= 1000h;	EN 743:1996;  EN ISO 15874-2:2005;  EN 728:1999	3. LNEC PORTUGAL DOCUMENTO DE HOMOLOGACAO LNEC DH 747; 2 pages
7	Outside visual examination and marking of pipes	ISO 10508: 2006 (replaced ISO 10508: 1995)	4. EMI HUNGARY NON PROFIT COMPANY FOR QUALITY CONTROL AND INNOVATION IN BUILDING; EME: A.854/1999, 8pages NEW CERT. UE: A-2234/2006
8.	Resistance at temperature ( °C): (10°C÷95°C)	BAS EN ISO 7686:2007 ; EN ISO 7686:2005 IDT	
9.	Pipe joints and components of polypropylene/ General quality requirements, testing	DIN 16962:2000, Part 5, 6,7,8 DVGW W534.:2004	5.SKZ HR.3.28
10.	SDR 7,4/11 MF	2005CSO 1347/1 SDR 7,4 MF PN16 ( 20, 25, 32) mm; 96DG706TO SDR 11 MF, PN 10 (32 do 450) mm	6. RINA No. MAC 156215x G/003
11.	AENOR No.:001/006087 Fiber glass content 8 % / fiber glass content of the middle layer 18 %,	Application class/ design pressure 1/8 bar; 2/6 bar; 4/10 bar; 5/6 bar	AENOR Madrid No.: 001/006087 02.12.2013/ 11.4.2017 (20, 25, 32) mm za SDR 7,4 serie 3,2; (32 do 355) mm za SDR 11 series 5;





**Proizvod :**  
*Produkt :*

**aquatherm blue pipes SDR 7,4/11 MF PP-R GF**  
za PP-R, koji je pojačan staklenim vlaknima  
(20, 25, 32) mm; SDR 7,4 MF , S3,2 series of pipes, *PN 16 @20 °C*  
(32 do 450) mm SDR11 MF, S5 series of pipes, *PN 10 @20 °C*  
**Application class/ design pressure 1/8 bar; 2/6 bar; 4/10 bar; 5/6 bar**  
**for (32 do 355) mm, SDR 11 MF; for (20, 25, 32) mm, SDR 7,4 MF**

**Proizvođač:**  
*Manufacturer:*

**AQUATHERM GmbH , Germany**  
Biggen 5, D-57439 Attendorn

**Table No.2 for USA**

Pos.	Subject of testing	Standard for test metod	Report about testing and Certificate of conformity No :
1	MFR granulat at (230 °C / 2,16 kg) the melt mass flow: (g/10 min)	<b>ASTM F 2389</b> <b>CSI B 137.11</b>	<b>6. .NSF /ANSI STANDARD 14</b> <b>od 31.07.2007, 10 pages</b> <b>for Fittings</b>
2	MFR of pipes at (230 °C / 2,16 kg) the melt mass flow: (g/10 min)		
4	Middle outside diameter (mm)	<b>ASTM F 2389</b> <b>ANSI 14</b>	
5	Thickness of wall of pipes (mm)		
6	Resistance on inside pressure at temperature( °C) and time (h): 1) 16 MPa; t=20 °C , τ= 1 h; 2) 3,8 MPa; t=95 °C , τ= 165 h; 3) 3,5 MPa; t=95 °C , τ= 1000 h;		
7	Outside visual examination and marking of pipes		
8.	Resistance at temperature: (10 °C do 95 °C)		
9.	Pipe joints and components of polypropylene/ General quality requirements, testing		
10.	Remarking of pipes	<b>BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008</b> <b>for (32 do 355) mm za</b> <b>SDR 11 series 5;</b>	<b>10. DNV –GL 86069-96 HH od 07.09.2015/</b> <b>05.08.2020</b> <b>11. E10101, 04/2015 katalog aquatherm</b> <b>green pipe- Pipe system made of</b> <b>polypropylene</b>

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Report about testing no. 08-03/20-AQGE





**PRIMJER OZNAČAVANJA CIJEVI**

**Examples of marking aquatherm blue pipes SDR 7,4/11 MF (old brand name: climatherm faser composite pipes):**

**The piping must be marked every 5 feet (1524 mm) with following:**

<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 20x2,8 mm Art. 2070708</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR7,4 TMAX 90° CSA B137.11 ASTM F 2389 METRIC NSF  ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-3 B057 Made in Germany/  For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 25x3,5 mm Art. 2070710</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR7,4 TMAX 90° CSA B137.11 ASTM F 2389 METRIC NSF  ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-3 B057 Made in Germany/  For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 32x2,9 mm Art. 2070112</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 31.10.07 04:22 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 40x 3,7 mm Art. 2070114</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 50x 4,6 mm Art. 2070116</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 63x 5,8 mm Art. 2070118</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 75x 6,8 mm Art. 2070120</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 90x 8,2 mm Art. 2070122</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes (old climatherm) faser verbundrohr 110x 10,0 mm Art. 2070124</b>  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p>Page /Seitennummer/ 3 from 4/</p>
<p>Report about testing no. 08-03/20-AQGE</p>





>>a<< aquatherm blue pipe SDR 7,4 MF 20x 2,8 mm Art. 2070708 PP-R/PP-R GF/ PP-R Tmax= 90 °C □ AENOR -001/823 CSA B137.11 ASTM F 2389 metric (20 x 2,8/ 2070708) 26.06.15. 22:19 M-33A 01681 Made in Germany/ For a safe connection use only original aquatherm fittings! Δ >>a<<
Inspection report: 03-08/15-AQGE
>>a<< aquatherm blue pipe SDR 7,4 MF 25x 3,5 mm Art. 2070710 PP-R/PP-R GF/ PP-R Tmax= 90 °C □ AENOR -001/823 CSA B137.11 ASTM F 2389 metric (25 x 3,5/ 2070710) 16.07.15. 03:59 M-33A 01681 Made in Germany/ For a safe connection use only original aquatherm fittings! Δ >>a<<
Inspection report: 03-08/15-AQGE
>>a<< aquatherm blue pipe SDR 11 MF 63x 5,8 mm Art. 2070118 PP-R/PP-R GF/ PP-R Tmax= 90 °C □ AENOR -001/823 Class 4/ 6 bar 5/ 4 bar CSA B137.11 ASTM F 2389 metric ISO 21003 (63 x 5,8/ 2070118) 18.09.15. 15:24 M 05 6 RE 2646M03 Made in Germany/ For a safe connection use only original aquatherm fittings! Δ >>a<<
Inspection report: 03-08/15-AQGE
Prema katalogu br. E10101, 04/2015 aquatherm green pipe- Pipe system made of polypropylene i dopisa od Aquatherm/ Vokel 09.2012 sve plave cijevi ovoga tipa SDR 7,4 i SDR 11 su dobile novi brand name aquatherm blue pipe SDR 7,4 MF i SDR 11 MF /(stara oznaka: climatherm SDR 7,4 i SDR 11) Acc.to catalog Or.Nr. E10101 date 04/2015 aquatherm green pipe- Pipe system made of polypropylene and aquatherm announces change brand names, from 09.2012, all pipes this type SDR 7,4 i SDR 11 have had new marking of blue pipe with NEW BRAND NAMES: aquatherm blue pipe SDR 7,4 MF i SDR 11 MF, (old : climatherm pipes SDR 7,4 i SDR11)

### Zaključak: /Conclusion/

Temeljem laboratorijskih izvješća i certifikata prema Tabeli 1. zaključuje se da se može/ ne može izdati Potvrda o sukladnosti proizvoda br. C/08-03/20-AQGE u skladu s BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Procjena sukladnosti - Deklaracija sukladnosti od dobavljača – Dio 1. Opći zahtjevi I zahtjeva/

On the basis of laboratory report and certificates according to table 1. concluded that we can to issue / can not to issue Certificate of conformity for this product No. C/08-03/20-AQGE in accordance with BAS EN ISO/IEC 17050-1:2007, EN ISO 17050-1:2004, IDT Estimate of conformity- Declaration about conformity from supplier. Part 1. Common requests, and requests:

**It is also certified that the product characteristics are in conformity to the requirements of the following regulations and standards:**

- EN ISO 15874-2:2005; EN 728:1999; EN 743:1996;
- BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007, Replaced/ersetzt/: BAS EN 921:2002; EN 921:1994+A :1995, IDT;
- EN ISO 1183:2004; ISO 10508: 2006 (replaced ISO 10508: 1995);
- EN ISO 1133:2005+AC:2006, ISO 1133:2005+AC:2006, IDT;
- BAS EN ISO 3126:2007 ; EN ISO 3126:2005 IDT ; BAS EN ISO 7686:2007 ; EN ISO 7686:2005 IDT;
- ASTM F 2389, CSA B137.11; NSF/ANSI 14, HR 3.28:2008.
- AENOR Specific Rules AL RP 01.72, Part C , Chapter 1, Appendix 3 of RINA Rules.
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008

Signature project manager: Paula Franjić, dipl.ing.  
Page /Seitennummer / 4 from 4 Paula Franjić

Report about testing no. 08-03/20-AQGE

Place and Date of issue/ Ablaufdatum:  
Mostar, 11.11.2020.  
Ausgabeort, Datum, Bearbeiter blatt  
Date of expiry: 11.11.2025. god.



Director/ Direktor:  
Signature authorized person:

Mr. sci. Milenko Puce, dipl. ing.





**Certificate of conformity**  
*Baumusterprüfzertifikat*  
No.: C/08-03/20-AQGE

<b>Product :</b> <i>Produkt :</i>	aquatherm blue pipes SDR 7,4/11 MF PP-R C-GF PP-R ili PP-R GF za PP-R, reinforced with glass fibre
<b>Manufacturer:</b> <i>Fabricant:</i>	AQUATHERM GmbH , Germany Biggen 5, D-57439 Attendorn
<b>Models or Types:</b> <i>Art des artikels:</i>	aquatherm blue pipe SDR 7,4/11 MF PP-R C-GF PP-R ili PP-R GF za PP-R, reinforced with glass fibre 20x2,8 mm; 25x3,5 mm; SDR 7,4 MF, <i>PN 16 @20 °C</i> 32x2,9 mm; 40x3,7 mm; 50x4,6 mm, 63x5,8 mm; SDR 11 MF 75x6,8 mm; 90x8,2 mm; 110x10,0 mm; SDR 11 MF, <i>PN 10 @20 °C</i> for SDR 11 125x11,4mm; 160x14,6mm; 200x18,2mm; 250x22,7 mm, SDR 11 MF
<b>Applicant:</b> <i>Auftraggeber</i>	AQUATHERM GmbH, Germany Biggen 5, D-57439 Attendorn
<b>Authorized company:</b> <i>Bevollmächtigt person</i>	QUALITY SUPERINTENDING COMPANY l.t.d. Mostar Sv. Leopolda Mandića 9/1, 88000 Mostar

Technical and other data: MULTILAYER FASER COMPOSITE PIPES (old CLIMATHERM) AND FITTINGS  
Color of the pipes: **aquatherm blue pipes SDR 7,4/11 MF PP R fusiolen** is blue with four green length stripes.  
Field of application are products of water supply and for HVACR technology. Katalog 10101, 04/2015.

Add Certificat No.: 1. UA1.107.0005618-05 od 08.12.2005/ 20.01.2008. from STATE COMITEE OF UKRAINE ACCORDING TO QUESTION ABOUT TEHNIČK REGULATIVE –STATEMENT SYSTEM OF CERTIFIKATE, KIEV, UKRAINA; 2. TIN POLAND PROBATA TECHNICZNA No.: AT/2006-02-1566 WARSZAWA , POLAND . 3. LNEC PORTUGAL DOCUMENTO DE HOMOLOGACAO DH 747 ; 4. EMI HUNGARY - NON PROFIT COMPANY FOR QUALITY CONTROL AND INNOV. IN BUILDING; EME: A.854/1999 , NEW CERT. UE: A-2234/2006; 5.NSF /ANSI STANDARD 14 od 31.07.2007 for Fittings; 6. ICC-ES Evaluation Report No. ESR-1613 od 01.04.2009 / 01.04.2011 ; 7. IAPMO M-0622/ 04.2009-04.2010. for fittings DNV –GL 86069-96 HH od 07.09.2015/ 05.08.2020  
Report about testing No /*Prüfberichtel.*: 08-03/20-AQGE from ZIK d.o.o. MOSTAR  
RINA ITALY TYPE APPROVAL MAC156215XG/003 09.2015/09.2020 , AENOR No.:006087 10.13/2017

**Conclusion/Ergebnis/:**

It is certified that the product characteristics are in conformity to the requirements of the following regulations and standards:

- EN ISO 15874-2:2005; EN 728:1999; EN 743:1996; BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007,
- EN ISO 1183:2004; ISO 10508: 2006 (replaced ISO 10508: 1995);
- EN ISO 1133:2005+AC:2006, ISO 1133:2005+AC:2006, IDT;
- BAS EN ISO 3126:2007 ; EN ISO 3126:2005 IDT ; BAS EN ISO 7686:2007 ; EN ISO 7686:2005 IDT;
- ASTM F 2389, CSA B137.11; NSF/ANSI 14,
- BAS EN ISO 21003-2:2010; EN ISO 21003-2:2008, HR 3.28:2008.
- *AENOR Specific Rules AL RP 01.72, Part C , Chapter 1, Appendix 3 of RINA Rules.*

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**Place and Date of issue:**

Mostar, 11.11.2020.

*Ausgabeort, Datum, Bearbeiter blatt*

**Date of expiry: 11.11.2025. god.**

*Ablaufdatum*



**Director/ Direktor:**

Signature authorized person:

Mr. sci. Milenko Puce, dipl. ing.





**Test Report**  
*Prüfberichte Nummer*  
**No.: 08-03/20-AQGE**

**Product :**  
*Produkt :*

aquatherm blue pipes SDR 7,4/11 MF PP-R C-GF reinforced with glass fibre  
 (20, 25, 32) mm; SDR 7,4 MF, S3,2 series of pipes, *PN 16 @20 °C*  
 (32 do 450) mm SDR11 MF, S5 series of pipes, *PN 10 @20 °C*  
**Application class/ design pressure 1/8 bar; 2/6 bar; 4/10 bar; 5/6 bar**  
**for (32 do 355) mm, SDR 11 MF; for (20, 25, 32) mm, SDR 7,4 MF**

**Manufacturer:**  
*Fabricant:*

**AQUATHERM GmbH, Germany**  
 Biggen 5, D-57439 Attendorn

**Table No.1 for Europe**

Pos.	Subject of testing	Standard for test metod	Report about testing and Certificate of conformity No :
1	MFR granulat at (230°C / 2,16 kg) the melt mass flow: g/10min	EN ISO 1133:2005+AC:2006 ISO 1133:2005+AC:2006, IDT EN ISO 1183:2004	1. UA1.107.0005618-05 od 08.12.2005/ 20.01.2008., <i>Ukr SEPRO, KIEV, UKRAINA; 2 pages</i>
2	MFR of pipes at (230°C / 2,16 kg) the melt mass flow: (0,2-0,5) g/10min	BAS EN ISO 3126:2007 ; EN ISO 3126:2005 IDT	2. TIN POLAND APROBATA TECHNICZNA No.: AT/2006-02-1566 ; 10 pages PL 02-656 WARSZAWA , POLAND
4	Middle outside diameter(mm)	BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007,	
5	Thickness of wall of pipe(mm)	Replaced: BAS EN 921:2002; EN 921:1994+AC:1995, IDT	
6	Resistance on inside pressure at temperature( °C) and time (h): 1) 16 MPa; t=20°C , τ= 1h; 2) 3,8 MPa; t=95°C , τ= 165h; 3) 3,5 MPa; t=95°C , τ= 1000h;	EN 743:1996; EN ISO 15874-2:2005; EN 728:1999	3. LNEC PORTUGAL DOCUMENTO DE HOMOLOGACAO LNEC DH 747; 2 pages
7	Outside visual examination and marking of pipes	ISO 10508: 2006 (replaced ISO 10508: 1995)	4. EMI HUNGARY NON PROFIT COMPANY FOR QUALITY CONTROL AND INNOVATION IN BUILDING; EME: A.854/1999, 8pages NEW CERT. UE: A-2234/2006
8.	Resistance at temperature( °C): (10°C÷95°C)	BAS EN ISO 7686:2007 ; EN ISO 7686:2005 IDT	
9.	Pipe joints and components of polypropylene/ General quality requirements, testing  AENOR No.:006087 Fiber glass content 8 % / fiber glass content of the middle layer 18 %,	DIN 16962:2000, Part 5, 6,7,8 DVGW W534.:2004 RINA ITALY TYPE APPROVAL MAC156215X G/ 003 09.2015/09.2020 HR 3.28:2008 AENOR Specific Rules AL RP 01.72	5.SKZ HR.3.28 6. RINA ITALY TYPE APPROVAL MAC156215X G/ 003 09.2015/09.2020 7. AENOR No.:006087 10.13/2017 Application class/ design pressure 1/8 bar; 2/6 bar; 4/10 bar; 5/6 bar for (32 do 355) mm, SDR 11 MF; for (20, 25, 32) mm, SDR 7,4 MF
10.	<b>E10101, 04/2015 katalog aquatherm green pipe - Pipe system made of polypropylene</b>		





**Product :**  
*Produkt :*

aquatherm blue pipes SDR 7,4/11 MF PP-R C-GF reinforced with glass fibre (20, 25, 32) mm; SDR 7,4 MF , S3,2 series of pipes, *PN 16 @20 °C* (32 do 450) mm SDR11 MF, S5 series of pipes, *PN 10 @20 °C*  
**Application class/ design pressure 1/8 bar; 2/6 bar; 4/10 bar; 5/6 bar for (32 do 355) mm, SDR 11 MF; for (20, 25, 32 ) mm, SDR 7,4 MF**

**Manufacturer:**  
*Fabricant:*

**AQUATHERM GmbH , Germany**  
Biggen 5, D-57439 Attendorn

**Table No.2 for USA**

Pos.	Subject of testing	Standard for test metod	Report about testing and Certificate of conformity No :	
1	MFR granulat at (230 °C / 2,16 kg) the melt mass flow: (g/10 min)	<b>ASTM F 2389 CSI B 137.11</b>	<b>7. .NSF /ANSI STANDARD 14 od 31.07.2007, 10 pages for Fittings</b>	
2	MFR of pipes at (230 °C / 2,16 kg) the melt mass flow: (g/10 min)			
4	Middle outside diameter (mm)			
5	Thickness of wall of pipes (mm)			
6	Resistance on inside pressure at temperature( °C) and time (h): 1) 16 MPa; t=20 °C , τ= 1 h; 2) 3,8 MPa; t=95 °C , τ= 165 h; 3) 3,5 MPa; t=95 °C , τ= 1000 h;		<b>ASTM F 2389 ANSI 14</b>	<b>8. ICC-ES Evaluation Report No. ESR-1613, 2 pages According to ASTM F 2389 01.04.2009 / 01.04.2011</b>
7	Outside visual examination and marking of pipes			
8.	Resistance at temperature: (10 °C do 95 °C)			
9.	Pipe joints and components of polypropylene/ General quality requirements, testing		<b>ASTM F2389 and CSA B137.11</b>	<b>9. IAPMO M-0622/ 04.2009-04.2010 16. pages</b> <b>10. IAPMO R&amp;T CERTIFICATE OF LISTING Nr.:5053, 2015/16</b>
10.	Remarking of pipes	<b>HR 3.28:2008</b>	<b>11. DNV –GL 86069-96 HH od 07.09.2015/ 05.08.2020</b>	
11.			<b>12. USA ABS NR. 14-GD1215634-PDA 08.2014/08.2019</b> <b>ABS- American burea of shipping</b>	





**Examples of marking aquatherm blue pipes SDR 7,4/11 MF (old brand name: climatherm faser composite pipes):**

**The piping must be marked every 5 feet (1524 mm) with following:**

<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 20x2,8 mm Art. 2070708  PP-R80/PP-R 80 GF/ PP-R 80 SDR7,4 TMAX 90° CSA B137.11 ASTM F 2389 METRIC NSF  ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-3 B057 Made in Germany/  For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 25x3,5 mm Art. 2070710  PP-R80/PP-R 80 GF/ PP-R 80 SDR7,4 TMAX 90° CSA B137.11 ASTM F 2389 METRIC NSF  ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-3 B057 Made in Germany/  For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 32x2,9 mm Art. 2070112  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 31.10.07 04:22 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 40x 3,7 mm Art. 2070114  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 50x 4,6 mm Art. 2070116  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 63x 5,8 mm Art. 2070118  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 75x 6,8 mm Art. 2070120  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 90x 8,2 mm Art. 2070122  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p><b>aquatherm blue pipes</b> (old climatherm) faser verbundrohr 110x 10,0 mm Art. 2070124  PP-R80/PP-R 80 GF/ PP-R 80 SDR11 TMAX 90° PN 6bar CSA B137.11 ASTM F 2389  METRIC NSF ICC ESR 1613 opaque 07.11.06 03:42 Uhrzeit M-33 A 404  Made in Germany/ For a safe connection use only original aquatherm fittings!</p>
<p>Page /Seitennummer/ 3 from 4/</p>
<p>Report about testing no. 08-03/20-AQGE</p>





>>a<< aquatherm blue pipe SDR 7,4 MF 20x 2,8 mm Art. 2070708 PP-R/PP-R GF/ PP-R Tmax= 90 °C □ AENOR -001/823 CSA B137.11 ASTM F 2389 metric (20 x 2,8/ 2070708) 26.06.15. 22:19 M-33A 01681 Made in Germany/ For a safe connection use only original aquatherm fittings! Δ >>a<<	Inspection report: 03-08/20-AQGE
>>a<< aquatherm blue pipe SDR 7,4 MF 25x 3,5 mm Art. 2070710 PP-R/PP-R GF/ PP-R Tmax= 90 °C □ AENOR -001/823 CSA B137.11 ASTM F 2389 metric (25 x 3,5/ 2070710) 16.07.15. 03:59 M-33A 01681 Made in Germany/ For a safe connection use only original aquatherm fittings! Δ >>a<<	Inspection report: 03-08/15-AQGE
>>a<< aquatherm blue pipe SDR 11 MF 63x 5,8 mm Art. 2070118 PP-R/PP-R GF/ PP-R Tmax= 90 °C □ AENOR -001/823 Class 4/ 6 bar 5/ 4 bar CSA B137.11 ASTM F 2389 metric ISO 21003 (63 x 5,8/ 2070118) 18.09.15. 15:24 M 05 6 RE 2646M03 Made in Germany/ For a safe connection use only original aquatherm fittings! Δ >>a<<	Inspection report: 03-08/15-AQGE
According to katalog Nr. E10101, 04/2015 aquatherm green pipe- Pipe system made of polylylene all blue pipes this type SDR 7,4 i SDR 11 have gaven a new brand name <b>aquatherm blue pipe SDR 7,4 MF i SDR 11 MF</b> /(old marking : climatherm SDR 7,4 i SDR 11) Acc.to catalog Or.Nr. E10101 date 04/2015 aquatherm green pipe- Pipe system made of polypropylene and aquatherm announces change brand names, from 09.2012, all pipes this type SDR 7,4 i SDR 11 have had new marking of blue pipe with NEW BRAND NAMES: <b>aquatherm blue pipe SDR 7,4 MF i SDR 11 MF</b> , (old : climatherm pipes SDR 7,4 i SDR11)	

### Conclusion/Ergebnis/:

On the basis of laboratory report and certificates according to table 1. and 2. concluded that we can to issue / *can not to issue* Certificate of conformity No.C/08-03/20-AQGE for this product in accordance with **BAS EN ISO/IEC 17050-1:2007**, EN ISO 17050-1:2004, IDT Estimate of conformity- Declaration about conformity from supplier. Part 1. Common requests.

**It is also certified that the product characteristics are in conformity to the requirements of the folowing regulations and standards:**

- EN ISO 15874-2:2005; EN 728:1999; EN 743:1996;
- BAS EN ISO 1167-1:2007; BAS EN ISO 1167-2:2007, Replaced/ersetzt/: BAS EN 921:2002; EN 921:1994+A :1995, IDT;
- EN ISO 1183:2004; ISO 10508: 2006 (replaced ISO 10508: 1995);
- EN ISO 1133:2005+AC:2006, ISO 1133:2005+AC:2006, IDT;
- BAS EN ISO 3126:2007 ; EN ISO 3126:2005 IDT ; BAS EN ISO 7686:2007 ; EN ISO 7686:2005 IDT;
- ASTM F 2389, CSA B137.11; NSF/ANSI 14.
- *AENOR Specific Rules AL RP 01.72, Part C , Chapter 1, Appendix 3 of RINA Rules.*

Signature project manager: Paula Franjić, dipl.ing.

Page /Seitennummer / 4 from 4

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