



Certificate of Compliance

This certificate is issued for the following:

Polyethylene Pipe
(see details on following page)

Prepared for:

AGRU-FRANK GmbH
Dieselstrasse 1-7
Wolfersheim-Berstadt, 61200
Germany

Manufactured at:

AGRU-FRANK GmbH
Dieselstrasse 1-7
Wolfersheim-Berstadt, 61200
Germany

FM Approvals Class: 1613

Approval Identification: 0003053294

Approval Granted: November 20, 2014

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read "Richard B. Dunne". The signature is written in a cursive style and is positioned above a horizontal line.

Richard B. Dunne
Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group



Certificate of Compliance

<i>Product Designation</i>	<i>O.D., Pipe Size, mm</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
Pipe, PE 100, SDR 11 Extruded	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	12 (175)	a, b, c
Sweep Bend Fittings, 90°, 60°, 45°, 30°, 22°, 11°, Extruded and Formed SDR 11	90, 110, 125, 140, 160, 180, 225, 250, 315	12 (175)	a, b, c

Remarks:

- a. Dimensions refer to the pipe outside diameter. Pipe and fittings are directly connected by the butt fusion process, or the socket electro-fusion welding process.
- b. The manufacturer fusion welding instructions must be strictly adhered to for a proper joint.
- c. The color of the pipe is Black or Blue.



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Polyethylene Pipe

<i>Product Designation</i>	<i>O.D., Pipe Size, mm</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
Pipe, PE 100, SDR 9 Extruded	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500	14 (200)	a, b, c

Remarks:

- a. Dimensions refer to the pipe outside diameter. Pipe and fittings are directly connected by the butt fusion process, or the socket electro-fusion welding process.*
- b. The manufacturer fusion welding instructions must be strictly adhered to for a proper joint.*
- c. The color of the pipe is Black or Blue.*

Prepared for:

AGRU-FRANK GmbH
Dieselstrasse 1-7
Wolfersheim-Berstadt,
61200 Germany

Manufactured at:

AGRU-FRANK GmbH
Dieselstrasse 1-7
Wolfersheim-Berstadt,
61200 Germany

FM Approvals Class: 1613

Approval Identification: 0003055897

Approval Granted: July 20, 2015

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in dark ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller
AVP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group