



# Certificate of Compliance

This certificate is issued for the following:

**Polyethylene (PE) Pipe and Fittings for Underground Fire Protection Service**

**Friatec Fittings and Couplers**

(see details on following page)

**Prepared for:**

Aliaxis Deutschland GmbH  
Steinzeugstr 50  
Mannheim 68229  
Germany

**Manufactured at:**

Aliaxis Deutschland GmbH  
Steinzeugstr 50  
Mannheim 68229  
Germany

FM Approvals Class: 1613 (February 2017)

Approval Identification: PR452814

Approval Granted: September 10, 2020

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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 Fuller  
VP - Manager of Fire Protection  
FM Approvals  
1151 Boston-Providence Turnpike  
Norwood, MA 02062



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<i>Product Designation</i>	<i>Nominal Pipe Size, mm</i>	<i>Pressure Rating, psi (kPa)</i>	<i>Remarks</i>
FRIALEN Slide-over Coupler (UB) SDR11	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500	200 (1380)	a
FRIALEN Slide-over Coupler (UB) SDR9	400, 450, 500, 560, 630	250 (1725)	a
FRIALEN Slide-over Coupler (UB) SDR7.4	90, 110, 125, 140, 160, 180, 200, 225, 250, 315, 355	250 (1725)	a
FRIALEN Reducer (MR)	90x63, 110x63, 110x90, 125x90, 160x110, 225x160	200 (1380)	a
FRIALEN Elbow 30° (W30)	90, 110, 125, 140, 160, 180, 200, 225	200 (1380)	a
FRIALEN Elbow 45° (W45)	63, 75, 90, 110, 125, 140, 160, 180, 200, 225	200 (1380)	a
FRIALEN Elbow 90° (W90)	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	200 (1380)	a
FRIALEN Tee (T)	75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	200 (1380)	a
FRIALEN End Cap (MV)	63, 75, 90, 110, 125, 140, 160, 180, 200, 225	200 (1380)	a

**Remarks:**

a. FRIALEN Fittings are electrofusion fittings designed to join two adjacent lengths of high density polyethylene pipe. The FRIAMAT family of fusion machines are used to fuse FRIALEN fittings to the pipe. Manufacturer's installation and assembly recommendations must be strictly followed for a proper joint.



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