



# Certificate of Compliance

This certificate is issued for the following:

**Polyethylene (PE) Pipe Fittings for Underground Fire Protection Service**  
(see listing attached)

**Prepared for:**

Turan Makina Plastik Boru Sistemleri AS  
Sanayi Mah Adiguzel Sok No. 6  
Kurtkoy Pendik Istanbul  
34912 Turkey

**Manufactured at:**

Turan Makina Plastik Boru Sistemleri AS  
Sanayi Mah Adiguzel Sok No. 6  
Kurtkoy Pendik Istanbul  
34912 Turkey

FM Approvals Class: 1613 (February 2017)

Approval Identification: PR451701

Approval Granted: March 30, 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>O.D., Pipe Size, mm.</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
Molded 45° Elbow	110, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
Molded 60° Elbow	110, 125, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
Molded 90° Elbow	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
Molded Equal Tee	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
Molded Unequal Tee	110-63, 110-75, 110-90, 125-110, 140-63, 140-90, 140-110, 160-63, 160-75, 160-90, 160-110, 160-140, 180-110, 200-63, 200-75, 200-90, 200-110, 200-125, 200-160, 225-90, 25-110, 225-125, 225-160, 250-90, 250-110, 250-125, 250-160, 250-200, 280-110, 280-160, 280-200, 315-90, 315-110, 315-140, 315-160, 315-200, 315-225, 315-250, 355-110, 355-160, 355-250	10 (145)	a, b, c
Molded Unequal Tee with reduction	125-75, 140-75, 140-125, 160-125, 180-63, 180-75, 180-140, 180-160, 200-140, 225-63, 225-75, 225-140, 225-180, 225-200, 250-75, 250-180, 250-225, 280-63-280-75, 280-90, 280-125, 280-140, 280-180, 280-225, 280-250, 280-250, 315-63, 315-75, 315-125, 315-180, 315-225, 315-280, 355-63, 355-75, 355-90, 355-125, 355-140, 355-180, 355-200, 355-225, 355-280, 355-315	10 (145)	a, b, c
Molded reducer	110-63, 110-90, 125-90, 125-110, 140-110, 140-125, 160-90, 160-110, 160-125, 160-140, 180-90, 180-110, 180-125, 180-140, 180-160, 200-110, 200-125, 200-140, 200-160, 200-180, 225-110, 225-140, 225-160, 225-180, 225-200, 250-160, 250-200, 250-225, 280-200, 280-250, 315-160, 315-200, 315-225, 315-250, 315-280, 355-250	10 (145)	a, b, c
Molded flange adaptor	90, 110, 125, 140, 160, 180	10 (145)	a, b, c
Molded 45° Elbow	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	16 (232)	a, b, c
Molded 60° Elbow	75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	16 (232)	a, b, c



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<i>Product Designation</i>	<i>O.D., Pipe Size, mm.</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
Molded 90° Elbow	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	16 (232)	a, b, c
Molded Equal Tee	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	16 (232)	a, b, c
Molded Unequal Tee	75-63, 90-63, 90-75, 110-63, 110-75, 110-90, 125-63, 125-90, 125-110, 140-63, 140-90, 140-110, 160-63, 160-75, 160-90, 160-110, 160-140, 180-90, 180-110, 180-125, 200-63, 200-75, 200-90, 200-110, 200-125, 200-160, 200-180, 225-90, 225-110, 225-125, 225-160, 250-63, 250-90, 250-110, 250-125, 250-140, 250-160, 250-200, 280-110, 280-160, 280-200, 315-90, 315-110, 315-160, 315-200, 315-225, 315-250, 315-110, 315-160, 315-200, 315-250, 355-110, 355-160, 355-250	16 (232)	a, b, c
Molded Unequal Tee with reduction	125-75, 140-75, 140-125, 160-125, 180-63, 180-75, 180-140, 180-160, 200-140, 225-63, 225-75, 225-140, 225-180, 225-200, 250-75, 250-140, 250-180, 250-225, 280-63, 280-75, 280-75, 280-90, 280-125, 280-140, 280-180, 280-225, 280-250, 315-63, 315-75, 315-125, 315-140, 315-180, 315-225, 315-380, 355-63, 355-75, 355-90, 355-125, 355-140, 355-180, 355-200, 355-225, 355-280, 355-315	16 (232)	a, b, c
Molded reducer	75-63, 90-63, 90-75, 110-63, 110-75, 110-90, 125-63, 125-75, 125-90, 140-75, 140-90, 140-110, 140-125, 160-90, 160-110, 160-125, 160-140, 180-90, 180-110, 180-125, 180-140, 180-160, 200-110, 200-125, 200-140, 200-160, 200-180, 225-110, 225-160, 225-200, 250-125, 250-160, 250-180, 250-200, 250-225, 280-200, 280-225, 280-250, 315-160, 315-200, 315-225, 315-250, 315-280, 355-200, 355-250, 355-315	16 (232)	a, b, c
Molded 45° Elbow	110, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
Molded 60° Elbow	110, 125, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
Molded 90° Elbow	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
Molded Equal Tee	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355	10 (145)	a, b, c
PE/Brass Adaptor FNPT	63-2", 75-2-1/2", 90-3", 110-4"	16 (232)	a, b, c



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<i>Product Designation</i>	<i>O.D., Pipe Size, mm.</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
PE/Brass Adaptor MNPT	63-2"	16 (232)	a, b, c
PE/Steel Adaptor Plain end	63-2", 75-2-1/2", 90-3", 110-4"	16 (232)	a, b, c

**Remarks:**

- a. Plain end fittings for butt fusion.
- b. The fusion instructions must be strictly adhered to for a proper joint.
- c. The fittings are manufactured of injection molded PE100.



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