



Certificate of Compliance

This certificate is issued for the following:

Polyethylene Pipe and Fittings for Underground Fire Service
(See Attached Listing)

Prepared for:

PT Georg Fischer Indonesia
JL Desa Anggadita Klari
Karawang Timur, Jawa Barat 41371
Indonesia

FM Approvals Class: 1613 (February 2017)

Approval Identification: PR449535 Approval Granted: February 6, 2019
Report Reissued: February 22, 2019

To verify the product continues to be Approved 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", is written over a horizontal line.

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



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<i>Product Designation</i>	<i>O.D., Pipe Size, mm</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
RB Equal Tee, SDR11	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280	13.8 (200)	a, b
Reducer Long Spigot, SDR11	75x63, 90x75, 110x90, 125x110, 140x125, 160x140, 180x140, 180x160, 200x180, 225x200, 250x225, 280x250, 315x280, 355x315, 400x355, 450x400	13.8 (200)	a, b
Segmented Bend Spigot 45°, SDR11	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.8 (200)	a, b
Segmented Bend Spigot 90°, SDR11	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.8 (200)	a, b
Pipe, PE100, SDR11	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.8 (200)	a, b
Stub Flange, SDR11	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.8 (200)	a, b
RB Equal Tee, SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280	17.2 (250)	a, b
Reducer Long Spigot, SDR9	75x63, 90x75, 110x90, 125x110, 140x125, 160x140, 180x140, 180x160, 200x180, 225x200, 250x225, 280x250, 315x280, 355x315, 400x355, 450x400	17.2 (250)	a, b
Segmented Bend Spigot 45°, SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	17.2 (250)	a, b
Segmented Bend Spigot 90°, SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	17.2 (250)	a, b
Pipe, PE100, SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	17.2 (250)	a, b
Stub Flange, SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	17.2 (250)	a, b
RB Equal Tee, SDR7.4	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280	21.7 (315)	a, b



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<i>Product Designation</i>	<i>O.D., Pipe Size, mm</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
Reducer Long Spigot, SDR7.4	75x63, 90x75, 110x90, 125x110, 140x125, 160x140, 180x160, 200x180, 225x200, 250x225, 280x250, 315x280, 355x315, 400x355, 450x400	21.7 (315)	a, b
Segmented Bend Spigot 45°, SDR7.4	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450	21.7 (315)	a, b
Segmented Bend Spigot 90°, SDR7.4	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450	21.7 (315)	a, b
Pipe, PE100, SDR7.4	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450	21.7 (315)	a, b
Stub Flange, SDR7.4	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450	21.7 (315)	a, b

Remarks:

- a. Dimensions refer to the pipe outside diameter. Pipe and fittings are connected by a Butt Weld and Electrofusion welding process only.
- b. The manufacturer's Butt Weld and Electrofusion welding instructions must be strictly adhered to for a proper joint.



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