



Certificate of Compliance

This certificate is issued for the following:

Polyethylene (PE) Pipe and Fittings for Underground Fire Protection Service
(see attached configuration table)

Prepared for:

Simona AG
Teichweg 16
D55606 Kirn
Germany

Manufactured by:

Simona Production Ringsheim GmbH & Co. KG
Gewerbestrasse 1-2
D77975 Ringsheim
Germany

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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 'D.B. Fuller', written over a horizontal line.

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



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Simona AG, Polyethylene Pipe and Fittings

Product Designation	O.D., Pipe Size, mm.	Pressure Rating, bar (psi)	Remarks
PE100 Pipe, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b

Product Designation	O.D., Pipe Size, mm.	Pressure Rating, bar (psi)	Remarks
<i>Fabricated and Segmented Fittings:</i>			
End caps, machined, SDR 11	315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b
Reducers concentric, machined, SDR 11	355x225, 355x250, 355x280, 355x315, 400x225, 400x250, 400x280, 400x315, 400x355, 450x280, 450x315, 450x355, 450x400, 500x315, 500x355, 500x400, 500x450, 560x400, 560x450, 560x500, 630x400, 630x450, 630x500, 630x560	15 bar (218)	a, b
Stub flanges for loose flange elongated, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b
Tee with reduced branch, welded, SDR 11	140x90, 140x110, 160x90, 160x110, 180x90, 180x110, 180x125, 180x140, 200x110, 200x125, 200x140, 200x160, 225x90, 225x110, 225x140, 225x160, 225x180, 250x90, 250x110, 250x125, 250x140, 250x160, 250x180, 250x200, 280x90, 280x110, 280x125, 280x140, 280x160, 280x180, 280x200, 280x225, 315x90, 315x110, 315x125, 315x140, 315x160, 315x180, 315x200, 315x225, 315x250, 355x90, 355x110, 315x125, 315x140, 315x160, 315x180, 315x200, 315x225, 315x250, 355x90, 355x110, 355x125, 355x140, 355x160, 355x180, 355x200, 355x225, 355x250, 355x280, 400x90, 400x110, 400x125, 400x140, 400x160, 400x180, 400x200, 400x225, 400x250, 400x280, 400x315, 450x110, 450x125, 450x140, 450x160, 450x180, 450x200, 450x225, 450x250, 450x280, 450x315, 500x110, 500x125, 500x140, 500x160, 500x180, 500x200, 500x225, 500x250, 500x280, 500x315, 500x355, 560x160, 560x180, 560x200, 560x225, 560x250, 560x280, 560x315, 560x355, 560x400, 630x160, 630x180, 630x200, 630x225, 630x250, 630x280, 630x315, 630x355, 630x400	15 bar (218)	a, b



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Product Designation	O.D., Pipe Size, mm.	Pressure Rating, bar (psi)	Remarks
<i>Injected Molded Fittings</i>			
Elbow, 90° with elongated spigots, injected, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	15 bar (218)	a, b, c
Elbow, 45° with elongated spigots, injected, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	15 bar (218)	a, b, c
End Cap, injected, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	15 bar (218)	a, b, c
End Cap, elongated, SDR 11	355, 400, 450, 500, 560, 630	15 bar (218)	a, b, c
Reducers concentric, injected, SDR 11	110x90, 125x90, 125x110, 140x90, 140x110, 140x125, 160x90, 160x110, 160x125, 160x140, 180x90, 180x110, 180x125, 180x160, 200x140, 200x160, 200x180, 225x160, 225x180, 225x200, 250x160, 250x180, 250x200, 250x225, 280x200, 280x225, 280x250, 315x225, 315x250, 315x280	15 bar (218)	a, b, c
Equal Tee, injected with elongated spigots, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500	15 bar (218)	a, b, c
Tee with reduced branch, injected, SDR 11	110x90, 125x110, 160x110, 180x160, 200x110, 200x160, 225x90, 225x110, 225x160, 225x180, 250x110, 250x160, 315x110, 315x160, 315x250	15 bar (218)	a, b, c
Backing Ring, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b, c
Blind Flange, injected, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	15 bar (218)	a, b, c
Special flange, injected, SDR 11	250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b, c



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Product Designation	O.D., Pipe Size, mm.	Pressure Rating, bar (psi)	Remarks
<i>Seamless Bends</i>			
Elbow, 90°, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b
Elbow, 60°, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b
Elbow, 45°, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b
Elbow, 30°, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b
Elbow, 22°, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b
Elbow, 11°, SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	15 bar (218)	a, b

Remarks:

- a. Dimensions refer to the pipe and fittings outside diameter. Pipes and fittings may be directly connected together by the butt fusion process or through the use of electro-fusion fittings and couplings.
- b. The manufacturer's butt-fusion welding or socket electro-fusion instructions must be strictly adhered to for a proper joint.
- c. The fittings are manufactured of injection molded PE100.



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