



APPROVED

# Certificate of Compliance

## Polyethylene (PE) Pipe and Fittings for Underground Fire Protection

### PRIVATE LABELER

The following items are FM Approved for:

Georg Fischer Wavin Ltd,  
Ebnetstrasse 111,  
8201 Schaffhausen,  
Switzerland

when manufactured at the plants listed below:

Product Designation	O.D., Pipe Size, mm	Pressure Rating, bar (psi)	Remarks
Spigot Fittings for Electrofusion, PE100, SDR 11			
WAVIN 45° Elbow	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12 (175)	a, b, c
WAVIN 90° Elbow	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12 (175)	a, b, c
WAVIN Equal Tee	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12 (175)	a, b, c
WAVIN Reducer	110/90, 125/90, 125/110, 160/90, 160/110, 160/125, 180/125, 180/160, 200/160, 200/180, 225/160, 225/180, 225/200, 250/160, 250/200, 250/225, 280/250, 315/200, 315/225, 315/250	12 (175)	a, b, c
WAVIN End Cap	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12 (175)	a, b, c
WAVIN Flange Adaptor	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12 (175)	a, b, c

Remarks:

- a. Dimensions refer to the spigot outside diameter. Spigot fittings only to be connected with electrofusion couplers.
- b. The manufacturer's electrofusion welding instructions must be strictly adhered to for a proper joint.
- c. The fittings are manufactured of injection molded PE100.



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Product Designation	O.D., Pipe Size, mm	Pressure Rating, bar (psi)	Remarks
Electrofusion Fittings, PE100, SDR 11			
WAVIN Coupler	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	12 (175)	a, b, c

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WAVIN Branch Saddle	110/90, 110/110, 125/90, 125/110, 160/90, 160/110, 160/125, 180/90, 180/110, 180/125, 200/90, 200/110, 200/125, 225/90, 225/110, 225/125, 250/90, 250/110, 250/125, 280/90, 280/110, 280/125, 315-355/90, 315-355/110, 315-355/125, 400-450/90, 400-450/110, 400-450/125	12 (175)	a, b, c
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Remarks:

- a. Dimensions refer to the pipe outside diameter. The pipe fits into the socket or the saddle of the fitting, and when electrical energy is applied to the terminal pins, which are integral part of the fitting, the joint is completed.
- b. The manufacturer's electrofusion welding instructions must be strictly adhered to for a proper joint.
- c. The fittings are manufactured of injection molded PE100.

Manufactured by:

Georg Fischer Piping Systems Ltd,  
 Ebnetstrasse 111,  
 8201 Schaffhausen,  
 Switzerland  
*Electrofusion fittings*

Georg Fischer Wavin Ltd,  
 Industriestrasse 24,  
 Subingen, CH-4553  
 Switzerland  
*Spigot fittings and Electrofusion fittings*

Simona AG,  
 Gewerbestrasse 1-2,  
 Ringsheim, D77975,  
 Germany  
*Spigot fittings 250mm - 315mm*

FM Approvals confirms that the items have been found to comply with the following standard:

FM Approvals Standard 1613 (February 2006)

Project Identifier:

3038602

Date of Approval:

March 15, 2010

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

*For more than 160 years FM Approvals has partnered with business and industry to reduce property losses.*

  
 Richard B. Dunne  
 Group Manager - Hydraulics  
 FM Approvals

Date

April 14, 2010

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 Norwood, MA 02062



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