



# Certificate of Compliance

This certificate is issued for the following:

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

**SDR11 Backing Ring and Stub End  
SDR11 BF Elbow 90°, BF Elbow 45°, and BF Tee  
SDR7 Backing Ring and Stub End**

**Prepared for:**

NUPI INDUSTRIE ITALIANE S.p.A  
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Italy

FM Approvals Class: 1613 (February 2017)

Approval Identification: PR456982

Approval Granted: April 29, 2021

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 black ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller  
VP, Manager – Fire Protection  
FM Approvals  
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## Certificate of Compliance

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
EF Coupler	SDR11	63, 75	16	(230)
EF Coupler	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280	17	(245)
EF Coupler	SDR11	315, 355, 400, 450, 500, 560, 630	12.75	(180)
EF Reducer	SDR11	75x63 90x63 110x63,90	16	(230)
EF Reducer	SDR11	125x63,90,110 160x90,110,125 200x160,180 225x160,180,200 250x180,200,225 315x250,280	12	(170)
EF Elbow 90°	SDR11	63	16	(230)
EF Elbow 90°	SDR11	75, 90, 110, 125, 160, 200, 225, 250	12	(170)
EF Elbow 45°	SDR11	63	16	(230)
EF Elbow 45°	SDR11	75, 90, 110, 125, 160, 200, 225, 250	12	(170)
EF Tee	SDR11	63, 75, 90, 110	12	(170)
EF Cap	SDR11	63	16	(230)
BF Cap	SDR11	90, 110, 125, 140, 160, 180, 200, 315, 355, 400, 450, 500	12	(170)





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Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
BF Reducer	SDR11	110x90 125x90,110 140x90,110,125 140x90,110,125 160x90,110,125,140 180x125,160 200x160,180 225x160,180,200 250x180,200,225 280x200,225,250 315x225,250,280 355x250,280,315 400x315,355 450x355 500x355,400,450 560x450,500	12	(170)
BF Elbow 90°	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250	12.75	(180)
BF Elbow 90°	SDR11	315	12	(170)
BF Elbow 45°	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250	12.75	(180)
BF Elbow 45°	SDR11	315	12	(170)
BF Tee	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 315	12.75	(180)
BF Reducing Tee	SDR11	110x90 125x90,110 140x90,110,125 160x90,110,125,140	12	(170)







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Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
		180x125,160 200x160,180 225x160,180,200 250x180,200,225 280x200,225,250 315x225,250,280 355x250,280,315 400x315,355 450x355 500x355,400,450 560x450,500		
EF Branch Saddle	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	12.75	(180)
BF Stub End	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	12.75	(180)
PE/Steel Plain Transition Fitting (ERPEAL)	SDR11	75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12.75	(180)
PE/Steel Threaded Transition Fitting (ERPEAF)	SDR11	63, 75, 90, 110, 125	12.75	(180)





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Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
	PE/Steel Coated Threaded Transition Fitting (ERPEARCZ)	SDR11 63, 75, 90, 110	12.75	(180)
	PE/Steel Threaded Curved Transition Fitting (ERTCFZ)	SDR11 63, 75, 90	12.75	(180)
	PE/Brass Male Threaded Transition Fitting (ERFM)	SDR11 63, 75, 90, 110, 125	12.75	(180)
	PE/Brass Female Threaded Transition Fitting (ERFF)	SDR11 63, 75, 90, 110, 125	12.75	(180)
	Galvanized Steel Flange (FLAAC)	SDR11 63, 75, 90, 110, 125, 140, 160, 180, 225	12.75	(180)



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Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
	Galvanized Steel Flange (FLAAC)	SDR11 250, 280, 315	10.35	(150)
	EF Coupler	SDR11 (2, 3, 4, 6, 8, 10)	17	(245)
	EF Coupler	SDR11 (12, 14, 16, 18, 20, 22, 24, 28)	12.75	(180)
	BF Elbow 90°	SDR11 (2, 3, 4, 6)	12.75	(180)
	BF Elbow 90°	SDR11 (8)	12.75	(180)
	BF Elbow 45°	SDR11 (2, 3, 4, 6)	12.75	(180)
	BF Elbow 45°	SDR11 (8)	12.75	(180)
	BF Tee	SDR11 (2, 3, 4, 6)	12.75	(180)
	BF Tee	SDR11 (8)	12.75	(180)
	EF Branch Saddle	SDR11 (2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 28)	12.75	(180)
	BF Stub End	SDR11 (2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24)	13.8	(200)
	Backing Ring	SDR11 (2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24)	13.8	(200)
	BF Stub End	SDR7 (2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20)	20	(290)
	Backing Ring	SDR7 (2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20)	20	(290)
	Pipe	SDR 11 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315 (3, 4, 5, 5 1/2, 6, 7, 8, 9, 10, 11, 12)		(180)







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Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
Pipe	SDR 11	355, 400 (14, 16)	15	(215)
Pipe	SDR 11	450 (18)	14	(200)
Pipe	SDR 11	500 (20)	12	(170)
Pipe	SDR 11	560 (22)	15	(215)
Pipe	SDR 11	630 (24)	12	(170)
Pipe	SDR 7.4	50, 63, 75 (2, 2-1/2, 3)	20.9	(300)

Note: All sizes shown in parentheses are in inches.



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