



# FZ100

## Performance Data

**Nullifire**  
Smart Protection

Fire performance in accordance with EN1366-3 testing.

Cable diameters can be increased up to 25%, and cable bundle diameters can be increased up to 10%.

\*Pipe penetration at 45 angle. # Partial penetration (tested from either side of partition).

120 mm Flexible Walls - COMBUSTIBLE PIPES						
Material		Diameter (mm)	Wall Thickness (mm)	Additional Product	Classification	
					Integrity (E)	Insulation (I)
Nylon PVC ribbed pipe		≤ 40	0,5 to 1,5	-	120	120
Nylon PVC ribbed pipe	#	≤ 90	0,5 to 1,5	-	120	120
Nylon PVC ribbed pipe		≤ 90	0,5 to 1,5	-	90	90
1 Bundle of 5 PEX multilayer pipes		≤ 22	1.5	-	60	60
PEX multilayer pipe		≤ 28	2.6	-	120	120
1 Bank of 5 PEX multilayer pipes		≤ 28	2.6	-	120	90
HDPE pipe	*	≤ 110	10.0	-	120	120
HDPE pipe	*	≤ 110	6.6	-	60	60
HDPE pipe		≤ 125	3.7	-	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)	*	≤ 40	1.9	FS702 Intumastic	120	120
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 40	3.7	-	90	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)	*	≤ 63	5.0	FS702 Intumastic	120	120
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 63	3.7	-	60	60
1 Bank of 3 PE pipes (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 63	3.7	-	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 90	8.2	-	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)	*	≤ 110	16	FS702 Intumastic	120	120
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)	*	≤ 110	3.2	FS702 Intumastic	120	120
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 110	16	-	90	90
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 110	4.2	-	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 110	10.0	-	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 110	6.6	-	60	60
PVC-U pipe (+ PVC-C)		≤ 40	3.2	-	60	60
PVC-U pipe (+ PVC-C)		≤ 40	1.9	-	60	60
1 Bank of 3 PVC-U pipes (+ PVC-C)		≤ 40	1.9	-	60	60
1 Bank of 6 PVC-U pipes (+ PVC-C) & ABS pipes		≤ 40	1.9	-	60	60
PVC-U pipe (+ PVC-C)		≤ 110	4.2	-	120	120
PVC-U pipe (+ PVC-C)		≤ 110	6.6	-	120	120
PVC-U pipe (+ PVC-C)		≤ 125	4.8	-	60	60
PP pipe (+ HDPE, PVC-U & PVC-C)		≤ 41	1.9	-	60	60
1 Bank of 4 PP pipes (+ HDPE, PVC-U & PVC-C)		≤ 41	1.9	-	60	60
1 Bank of 3 ABS pipes		≤ 40	1.9	-	60	60
ABS pipe		≤ 110	3.4	-	60	60
PVC-U pipe (+ PVC-C)		≤ 125	7.4	-	60	60



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120 mm Flexible Walls - NON-COMBUSTIBLE PIPES						
Material		Diameter (mm)	Wall Thickness (mm)	Additional Product	Classification	
					Integrity (E)	Insulation (I)
Copper (+ Steel, Cast Iron)	#	≤ 14	≥ 0,7		120	120
Copper (+ Steel, Cast Iron)		≤ 15	≥ 1	-	90	90
Copper (+ Steel, Cast Iron)		≤ 40	≥ 1	FI025 Intuflex	90	30
Copper (+ Steel, Cast Iron)		≤ 42	≥ 1	-	90	0
Copper (+ Steel, Cast Iron)		≤ 160	≥ 1,2	FI025 Intuflex	90	30
Copper (+ Steel, Cast Iron)		≤ 160	≥ 2	-	90	0
Steel (+ Cast Iron)		≤ 22	≥ 2	-	90	60
Steel (+ Cast Iron)		≤ 89	≥ 5	-	90	15

120 mm Flexible Walls - INSULATED NON-COMBUSTIBLE PIPES								
Material	Diameter (mm)	Wall Thickness (mm)	Insulation Material	Insulation Thickness (mm)	Insulation Location	Insulation Local Extension	Classification	
							Integrity (E)	Insulation (I)
Copper (+ Steel, Cast Iron)	≤ 42	≥ 1	PIR	20	LI (Local Interrupted)	500	90	90
Copper (+ Steel, Cast Iron)	≤ 42	≥ 1	Glass Fibre / Rock Fibre	20	CI (Continuous Interrupted)	-	90	60

120 mm Flexible Walls - SOCKET & FUSE BOXES							
Material		Dimensions (mm)	Cable Type	Cable Quantity	Additional Products	Classification	
						Integrity (E)	Insulation (I)
PVC UK Double Socket Box (Appleby, 2 gang)		≤ 86 x 146 x 9 (combustible back box ≤ 35mm depth)	Twin & earth 17mm	2	-	120	120
PVC UK Double Socket Box (MK, 2 gang)		≤ 104 x 146 x 15 (combustible back box ≤ 35mm depth)	Twin & earth 17mm	2	-	120	120
Timber & PVC UK Double Socket Box (Varilight, 2 gang)		≤ 86 x 146 x 9 (combustible back box ≤ 47mm depth)	Twin & earth 17mm	2	-	120	120
PVC UK Triple Multimedia Socket Box (Lap, 3 gang)		≤ 420 x 146 x 9 (combustible back box ≤ 35mm depth)	Twin & earth 17mm	2	-	120	120
PVC UK Double Socket Box (RS Pro, 2 gang)		≤ 104 x 146 x 15 (combustible back box ≤ 35mm depth)	Twin & earth 17mm	2	-	90	90
Steel & Plastic Fuse Box (British General, 12 way)		≤ 496 x 231 x 155	Twin & earth 17mm Twin & earth 30mm G1 21mm	14 4 2	-	120	120



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120 mm Flexible Walls - CABLE CARRIERS & CABLES							
Material		Dimensions (mm)	Cable Type	Cable Quantity	Additional Products	Classification	
						Integrity (E)	Insulation (I)
Cable Tray, Trunking, Basket		≤ 450 x 25 x 1,0	-	-	-	120	120
Cable Basket	#	≤ 200 x 25	-	-	-	120	120
Cable		-	TV coaxial 10mm	1	-	120	120
Cable		-	Ethernet Cat 5 6mm	1	-	120	120
Cable		-	Fibre optic 7mm	1	-	120	120
Cable		-	D1 80mm	1	FI025 Intuflex	90	90
Cable		-	G1 21mm	1	FI025 Intuflex	90	90
Cable		-	D2 65mm	1	-	90	90
Cables in Rigid Combustible Conduit		≤ Ø28 x 2,6	Ethernet Cat 5 6mm	1	-	120	120
Cables in Rigid Combustible Conduit		≤ Ø28 x 2,6	Ethernet Cat 5 6mm	1	-	120	120
			TV coaxial 10mm	1			
			Fibre optic 7mm	1			
Cables in Rigid Combustible Conduit		≤ Ø28 x 2,6	Fibre optic 7mm	1	-	120	120
Cables in Rigid Combustible Conduit		≤ Ø28 x 2,6	TV coaxial 10mm	1	-	120	120
Cables in 1 Bank of 5 Rigid Combustible Conduits		≤ Ø28 x 2,6	Ethernet Cat 5 6mm	1	-	120	90
			TV coaxial 10mm	1			
			Fibre optic 7mm	1			
Cables in Flexible & Rigid PVC Combustible Conduit	#	Ø63 to Ø90 x 0,5 to 1,5	Twin & earth 17mm	≤ 8	-	120	120
Cables in Flexible & Rigid PVC Combustible Conduit	#	Ø63 to Ø90 x 0,5 to 1,5	Twin & earth 17mm	≤ 32	-	90	90
Cables in Flexible & Rigid PVC Combustible Conduit	#	Ø63 to Ø90 x 0,5 to 1,5	TV coaxial 10mm	1	-	60	60
Cables in Flexible & Rigid PVC Combustible Conduit	#	Ø63 to Ø90 x 0,5 to 1,5	Twin & earth 17mm	≤ 5	-	60	60
			TV coaxial 10mm	1			
Cables in Flexible Combustible Conduit	#	≤ Ø63 x 0,5 to 1,5	Twin & earth 17mm	≤ 8	-	120	120
Cables in Flexible Combustible Conduit	#	≤ Ø63 x 0,5 to 1,5	Twin & earth 17mm	≤ 32	-	90	90
Cables in Flexible Combustible Conduit	#	≤ Ø63 x 0,5 to 1,5	TV coaxial 10mm	1	-	60	60
Cables in Flexible Combustible Conduit	#	≤ Ø63 x 0,5 to 1,5	Twin & earth 17mm	≤ 5	-	60	60
			TV coaxial 10mm	1			
Cable Bundle		-	Fibre optic 7mm	≤ 5	-	120	120
Cable Bundle		-	TV coaxial 10mm	≤ 5	-	120	120
Cable Bundle	#	-	A1 12mm	≤ 10	-	90	90
Cable Bundle		≤ 80	Ethernet Cat 5 6mm	≤ 80	-	90	90
Cable Bundle		-	Fibre optic 7mm	≤ 10	-	120	30
Cable Bundle		≤ 100	Twin & earth 17mm	≤ 26	-	90	30
Cable Bundle		≤ 100	Fibre optic 7mm	≤ 308	-	90	30
Cable Bundle		≤ 80	TV coaxial 10mm	≤ 32	-	90	30
Cable Bundle		-	Fibre optic 7mm	≤ 9	-	60	30
			TV coaxial 10mm	1			



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100 mm Flexible Walls - COMBUSTIBLE PIPES					
Material		Diameter (mm)	Wall Thickness (mm)	Classification	
				Integrity (E)	Insulation (I)
1 Bundle of 5 PEX multilayer pipes		≤ 22	1.5	60	60
PEX multilayer pipe		≤ 28	2.6	120	120
1 Bank of 5 PEX multilayer pipes		≤ 28	2.6	120	90
PVC-U pipe (+ PVC-C)		≤ 40	3.2	60	60
1 Bank of 3 PVC-U pipe (+ PVC-C)		≤ 40	1.9	60	60
1 Bank of 6 PVC-U pipes (+ PVC-C) & ABS pipes		≤ 40	1.9	60	60
PVC-U pipe (+ PVC-C)		≤ 110	4.2	120	120
PVC-U pipe (+ PVC-C)		≤ 110	6.6	120	120
PVC-U pipe (+ PVC-C)		≤ 125	4.8	60	60
PVC-U pipe (+ PVC-C)		≤ 125	7.4	60	60
HDPE pipe	*	≤ 110	10.0	120	120
HDPE pipe	*	≤ 110	6.6	60	60
HDPE pipe		≤ 125	3.7	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 40	3.7	90	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 63	3.7	60	60
1 Bank of 3 PE pipes (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 63	3.7	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 90	8.2	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 110	10.0	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 110	6.6	60	60
PE pipe (+ HDPE, ABS, San+ PVC, PVC-U & PVC-C)		≤ 110	4.2	60	60
ABS pipe		≤ 40	1.9	60	60
ABS pipe		≤ 110	3.4	60	60
ABS pipe		≤ 110	11.2	60	60
PP pipe (+ HDPE, PVC-U & PVC-C)		≤ 41	1.9	60	60
1 Bank of 4 PP pipes (+ HDPE, PVC-U & PVC-C)		≤ 41	1.9	60	60

100 mm Flexible Walls - NON-COMBUSTIBLE PIPES					
Material		Diameter (mm)	Wall Thickness (mm)	Classification	
				Integrity (E)	Insulation (I)
Copper pipe (+ Steel, Cast Iron)		≤ 15	≥ 1	90	90
Copper pipe (+ Steel, Cast Iron)		≤ 42	≥ 1	90	0
Copper pipe (+ Steel, Cast Iron)		≤ 160	≥ 2	90	0
Steel pipe (+ Cast Iron)		≤ 22	≥ 2	90	60
Steel pipe (+ Cast Iron)		≤ 89	≥ 5	90	15



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### 100 mm Flexible Walls - INSULATED NON-COMBUSTIBLE PIPES

Material	Diameter (mm)	Dimensions (mm)	Insulation Material	Insulation Thickness (mm)	Insulation Location	Insulation Local Extension	Classification	
							Integrity (E)	Insulation (I)
Copper pipe (+ Steel, Cast Iron)	≤ 42	≥ 1	PIR	20	LI (Local Interrupted)	500	90	90
Copper pipe (+ Steel, Cast Iron)	≤ 42	≥ 1	Glass Fibre / Rock Fibre	20	CI (Continuous Interrupted)	-	90	60

### 100 mm Flexible Walls - CABLE CARRIERS & CABLES

Material	Dimensions (mm)	Cable Type	Cable Quantity	Classification	
				Integrity (E)	Insulation (I)
Cable Tray, Trunking, Basket	≤ 450 x 25 x 1,0	-	-	120	120
Cables in Rigid Combustible Conduit	≤ 28 x 2,6	Ethernet Cat 5 6mm	1	120	120
		TV coaxial 10mm	1		
		Fibre optic 7mm	1		
Cables in Rigid Combustible Conduit	≤ Ø28 x 2,6	Ethernet Cat 5 6mm	1	120	120
Cables in Rigid Combustible Conduit	≤ Ø28 x 2,6	Fibre optic 7mm	1	120	120
Cables in Rigid Combustible Conduit	≤ Ø28 x 2,6	TV coaxial 10mm	1	120	120
Cables in 1 Bank of 5 Rigid Combustible Conduits	≤ Ø28 x 2,6	Ethernet Cat 5 6mm	1	120	90
		TV coaxial 10mm	1		
		Fibre optic 7mm	1		
Cable	-	TV coaxial 10mm	1	120	120
Cable	-	Ethernet Cat 5 6mm	1	120	120
Cable	-	Fibre optic 7mm	1	120	120
Cable	-	D2 65mm	1	90	90
Cable Bundle	-	Fibre optic 7mm	≤ 5	90	30
Cable Bundle	-	TV coaxial 10mm	≤ 5	90	60
Cable Bundle	≤ 80	Ethernet Cat 5 6mm	≤ 80	90	90
Cable Bundle	-	Fibre optic 7mm	≤ 10	120	30
Cable Bundle	≤ 100	Twin & earth 17mm	≤ 26	90	30
Cable Bundle	≤ 100	Fibre optic 7mm	≤ 308	90	30
Cable Bundle	≤ 80	TV coaxial 10mm	≤ 32	90	30