



PAM Building  
Holyhead Road  
Telford  
TF1 5AD

08

Unique identification code of the product-type: E001A

Declaration of Performance N° DoP-001UK

AVCP: 3 for reaction to fire (Range)  
4 for all other characteristics

BS EN 877:1999 + A1:2006

Cast iron pipes and fittings, their joints and accessories  
for the evacuation of water from buildings

ENSIGN (Soil) Range

Pipes, fittings and couplings DN 50-600

Reaction to fire	
- Cast iron	A1
- Range	A1
Internal pressure strength	Conform
Dimension tolerances	Conform
Impact resistance	Conform
- Mechanical properties (pipes)	
▪ Tensile strength	300 MPa (average value)
▪ Ring crush strength	450 MPa (average value)
▪ Brinell hardness	220 HB (average value)
Tightness	Conform
- Water tightness *	
Internal pressure	
DN ≤ 200	≥ 5 bar
DN > 200	≥ 3 bar

\* excluded flexible couplings, joints connecting to sanitary ware ...)

Durability	Conform
- External coatings	
• Pipes	Acrylic/Conform
• Fittings	Epoxy/Conform
- Internal coatings	
• Pipes **	Epoxy/Conform
• Fittings **	Epoxy/Conform
** including resistance to salt spray	≥ 1500 h



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Unique identification code of the product-type: E001B

Declaration of Performance N° DoP-002UK

AVCP: 3 for reaction to fire (Range)  
4 for all other characteristics

BS EN 877:1999 + A1:2006

Cast iron pipes and fittings, their joints and accessories  
for the evacuation of water from buildings

ENSIGN (Drain) Range

Pipes, fittings and couplings DN 50-600

Reaction to fire	
- Cast iron	A1
- Range	A2 - s1, d0
Internal pressure strength	Conform
Dimension tolerances	Conform
Impact resistance	Conform
- Mechanical properties (pipes)	
▪ Tensile strength	300 MPa (average value)
▪ Ring crush strength	450 MPa (average value)
▪ Brinell hardness	220 HB (average value)
Tightness	Conform
- Water tightness *	
Internal pressure	
DN ≤ 200	≥ 5 bar
DN > 200	≥ 3 bar

\* excluded flexible couplings, joints connecting to sanitary ware ...)

Durability	Conform
- External coatings	
• Pipes	Acrylic and 130 g/m <sup>2</sup> of zinc/Conform
• Fittings	Epoxy/Conform
- Internal coatings	
• Pipes **	Epoxy/Conform
• Fittings **	Epoxy/Conform
** including resistance to salt spray	≥ 1500 h



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Unique identification code of the product-type: E002A

Declaration of Performance N° DoP-003UK

AVCP: 3 for reaction to fire (Range)  
4 for all other characteristics

BS EN 877:1999 + A1:2006

Cast iron pipes and fittings, their joints and accessories  
for the evacuation of water from buildings

EEZI-FIT Range

Pipes, fittings and couplings DN 50-150

Reaction to fire	
- Cast iron	A1
- Range	A1
Internal pressure strength	Conform
Dimension tolerances	Conform
Impact resistance	Conform
- Mechanical properties (pipes)	
▪ Tensile strength	300 MPa (average value)
▪ Ring crush strength	450 MPa (average value)
▪ Brinell hardness	220 HB (average value)
Tightness	Conform
- Water tightness *	
Internal pressure	0.5 bar
* excluded flexible couplings, joints connecting to sanitary ware ...)	

Durability	
- External coatings	Conform
• Pipes	
• Fittings	
- Internal coatings	Acrylic/Conform
• Pipes **	Epoxy/Conform
• Fittings **	Epoxy/Conform
** including resistance to salt spray	≥ 1500 h