CE

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EN 295-1:2013

Vitrified clay pipe DN600 – 2,5 – FN57 – C

Buried drain and sewer systems for the conveyance of wastewater

Essential characteristics	**Performance**
Reaction to fire	Class A1
Crushing strength (F_N)	57 kN/m
Dimensional tolerances, concerning:	
Internal diameter	Within tolerance
Length	Within tolerance
Squareness of ends	Within tolerance
Straightness	Within tolerance
Continuity of invert	Within tolerance
Joint inter-changeability	System C
Tightness (gas and liquid) and Permeability as:	
Watertightness	Tight
Airtightness	Tight
Watertightness of joint assemblies, as:	
Angular deflection	Tight
Shear resistance	Tight
Durability of crushing strength, against:	
Chemical resistance	≤ 0,15% loss of mass
Resistance against high pressure water jetting • Moving nozzle • Stationary nozzle	 12 MPa 28 MPa
Water absorption	< 6% of mass
Durability of watertightness, against:	
Chemical and physical resistance to effluent	Tight
Thermal cycling stability	Tight
Long term thermal stability	Tight

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Vitrified clay connector GA DN600 – 0,75 – FN57 – C
Vitrified clay connector GZ DN600 – 0,75 – FN57 – C

Buried drain and sewer systems for the conveyance of wastewater

Essential characteristics	**Performance**
Reaction to fire	Class A1
Crushing strength (F_N)	57 kN/m
Dimensional tolerances, concerning:	
Internal diameter	Within tolerance
Length	Within tolerance
Squareness of ends	Within tolerance
Continuity of invert	Within tolerance
Joint inter-changeability	System C
Tightness (gas and liquid) and Permeability as:	
Watertightness	Tight
Airtightness	Tight
Watertightness of joint assemblies, as:	
Angular deflection	Tight
Shear resistance	Tight
Durability of crushing strength, against:	
Chemical resistance	≤ 0,15% loss of mass
Resistance against high pressure water jetting • Moving nozzle • Stationary nozzle	 12 MPa 28 MPa
Water absorption	< 6% of mass
Durability of watertightness, against:	
Chemical and physical resistance to effluent	Tight
Thermal cycling stability	Tight
Long term thermal stability	Tight

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EN 295-1:2013 Vitrified clay bend DN600 – FN57 – C – 15° Vitrified clay bend DN600 – FN57 – C – 30° Vitrified clay bend DN600 – FN57 – C – 45° Vitrified clay bend DN600 – FN57 – C – 90° Buried drain and sewer systems for the conveyance of wastewater

Essential characteristics	**Performance**
Reaction to fire	Class A1
Dimensional tolerances, concerning:	
Internal diameter	Within tolerance
Angle of curvature and radius	Within tolerance
Continuity of invert	Within tolerance
Joint inter-changeability	System C
Tightness (gas and liquid) and Permeability as:	
Watertightness	Tight
Airtightness	Tight
Watertightness of joint assemblies, tested as joint assembly of pipes	
Angular deflection	Tight
Shear resistance	Tight
Durability of watertightness, against:	
Chemical and physical resistance to effluent	Tight
Thermal cycling stability	Tight
Long term thermal stability	Tight

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EN 295-1:2013

Vitrified clay junction DN600150 – FN57 – C/F – 90°
Vitrified clay junction DN600200 – FN57 – C/F – 90°
Vitrified clay junction DN600200 – FN57 – C/C – 90°
Vitrified clay junction DN600250 – FN57 – C/C – 90°
Vitrified clay junction DN600300 – FN57 – C/C – 90°
Vitrified clay junction DN600350 – FN57 – C/C – 90°
Vitrified clay junction DN600400 – FN57 – C/C – 90°
Vitrified clay junction DN600450 – FN57 – C/C – 90°
Vitrified clay junction DN600500 – FN57 – C/C – 90°
Vitrified clay junction DN600600 – FN57 – C/C – 90°

Buried drain and sewer systems for the conveyance of wastewater

Essential characteristics	**Performance**
Reaction to fire	Class A1
Dimensional tolerances, concerning:	
Internal diameter	Within tolerance
Squareness of ends	Within tolerance
Branch angle	Within tolerance
Continuity of invert	Within tolerance
Joint inter-changeability	System C
Tightness (gas and liquid) and Permeability as:	
Watertightness	Tight
Airtightness	Tight
Watertightness of joint assemblies, tested as joint assembly of pipes	
Angular deflection	Tight
Shear resistance	Tight
Durability of watertightness, against:	
Chemical and physical resistance to effluent	Tight
Thermal cycling stability	Tight
Long term thermal stability	Tight

CE
Steinzeug-Keramo N.V. Paalsteenstraat 36 B-3500 Hasselt Belgium Telephone: +32 11 265 279 13 117
EN 295-4:2013 Vitrified clay connector GE DN600 – FN57 – C Buried drain and sewer systems for the conveyance of wastewater

Essential characteristics	**Performance**
Reaction to fire	Class A1
Dimensional tolerances, concerning:	
Internal diameter	Within tolerance
Squareness of ends	Within tolerance
Continuity of invert	Within tolerance
Joint inter-changeability	System C
Tightness (gas and liquid) and Permeability as:	
Watertightness	Tight
Airtightness	Tight
Watertightness of joint assemblies, tested as joint assembly of pipes	
Angular deflection	Tight
Shear resistance	Tight
Durability of watertightness, against:	
Chemical and physical resistance to effluent	Tight
Thermal cycling stability	Tight
Long term thermal stability	Tight

Declaration of Performance 117	
1. Unique identification	Vitrified clay pipe system DN600 – FN57 – C
2. Type	Vitrified clay pipe DN600 – 2,5 – FN57 – C Vitrified clay connector GA DN600 – 0,75 – FN57 – C Vitrified clay connector GZ DN600 – 0,75 – FN57 – C Vitrified clay bend DN600 – FN57 – C – 15° Vitrified clay bend DN600 – FN57 – C – 30° Vitrified clay bend DN600 – FN57 – C – 45° Vitrified clay bend DN600 – FN57 – C – 90° Vitrified clay junction DN600150 – FN57 – C/F – 90° Vitrified clay junction DN600200 – FN57 – C/F – 90° Vitrified clay junction DN600200 – FN57 – C/C – 90° Vitrified clay junction DN600250 – FN57 – C/C – 90° Vitrified clay junction DN600300 – FN57 – C/C – 90° Vitrified clay junction DN600350 – FN57 – C/C – 90° Vitrified clay junction DN600400 – FN57 – C/C – 90° Vitrified clay junction DN600450 – FN57 – C/C – 90° Vitrified clay junction DN600500 – FN57 – C/C – 90° Vitrified clay junction DN600600 – FN57 – C/C – 90° Vitrified clay connector GE DN600 – FN57 – C
3. Intended use	Buried drain and sewer systems for the conveyance of wastewater
4. Name and contact address of the manufacturer	Steinzeug-Keramo N.V. Paalsteenstraat 36 B-3500 Hasselt Belgium Telephone: +32 11 265 279
5. Name and contact address of the authorised representative	N.A.
6. System of assessment and verification of the construction product	System 4
7. Declaration of performance concerning a construction product covered by a harmonised standard	Yes
8. European Technical Assessment issued	N.A.

9. Declared performance:		
Essential characteristics	**Performance**	**Harmonised technical specification**
Reaction to fire	Class A1	EN295-1:2013 EN295-4:2013
Crushing strength (F_N) [a)]	57 kN/m	
Dimensional tolerances, concerning:		
Internal diameter	Within tolerance	
Length [a)]	Within tolerance	
Squareness of ends [e)]	Within tolerance	
Straightness [b)]	Within tolerance	
Angle of curvature and radius [c)]	Within tolerance	
Branch angle [d)]	Within tolerance	
Continuity of invert	Within tolerance	
Joint inter-changeability	System C	
Tightness (gas and liquid) and Permeability as:		
Watertightness	Tight	
Airtightness	Tight	
Watertightness of joint assemblies, as:		
Angular deflection	Tight	
Shear resistance	Tight	
Durability of crushing strength, against:		
Chemical resistance	≤ 0,15% loss of mass	
Resistance against high pressure water jetting • Moving nozzle • Stationary nozzle	 12 MPa 28 MPa	
Water absorption	< 6% of mass	
Durability of watertightness, against:		
Chemical and physical resistance to effluent	Tight	
Thermal cycling stability	Tight	
Long term thermal stability	Tight	
The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.		
a) Only for pipes and connectors GA/GZ b) Only for pipes c) Only for bends d) Only for junctions e) For pipes, junctions & connectors		

Signed for and on behalf of the manufacturer:

Name and function: Mr. R. van Veldhoven, Quality Director

Place and date: Frechen, 2 July 2013

Signature: