	
Steinzeug-Keramo N.V. Paalsteenstraat 36 B-3500 Hasselt Belgium Telephone: +32 11 265 279 13 110	
EN 295-1:2013 Vitrified clay pipe DN300 – 2,5 – FN72 – C Buried drain and sewer systems for the conveyance of wastewater	
Essential characteristics	Performance
Reaction to fire	Class A1
Crushing strength (F_N)	72 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	$\leq 0,15\%$ loss of mass
Resistance against high pressure water jetting <ul style="list-style-type: none"> 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 DN300 – 0,6 – FN72 – C
Vitrified clay connector GZ DN300 – 0,6 – FN72 – C

Buried drain and sewer systems for the conveyance of wastewater

Essential characteristics	Performance
Reaction to fire	Class A1
Crushing strength (F_N)	72 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	$\leq 0,15\%$ loss of mass
Resistance against high pressure water jetting <ul style="list-style-type: none"> 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

	
Steinzeug-Keramo N.V. Paalsteenstraat 36 B-3500 Hasselt Belgium Telephone: +32 11 265 279 13 110	
EN 295-1:2013 Vitrified clay bend DN300 – FN72 – C – 15° Vitrified clay bend DN300 – FN72 – C – 30° Vitrified clay bend DN300 – FN72 – C – 45° Vitrified clay bend DN300 – FN72 – 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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Vitrified clay junction DN300150 – FN72 – C/F – 45°
Vitrified clay junction DN300150 – FN72 – C/F – 90°
Vitrified clay junction DN300200 – FN72 – C/F – 45°
Vitrified clay junction DN300200 – FN72 – C/F – 90°
Vitrified clay junction DN300200 – FN72 – C/C – 45°
Vitrified clay junction DN300200 – FN72 – C/C – 90°
Vitrified clay junction DN300250 – FN72 – C/C – 45°
Vitrified clay junction DN300250 – FN72 – C/C – 90°
Vitrified clay junction DN300300 – FN72 – C/C – 45°
Vitrified clay junction DN300300 – FN72 – 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

	
Steinzeug-Keramo N.V. Paalsteenstraat 36 B-3500 Hasselt Belgium Telephone: +32 11 265 279 13 110	
EN 295-4:2013 Vitrified clay connector GE DN300 – FN72 – 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

	
Steinzeug-Keramo N.V. Paalsteenstraat 36 B-3500 Hasselt Belgium Telephone: +32 11 265 279 13 110	
EN 295-4:2013 Vitrified clay stopper DN300 – FN72 – C Buried drain and sewer systems for the conveyance of wastewater	
Essential characteristics	Performance
Reaction to fire	Class A1
Dimensional tolerances, concerning:	
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 110	
1. Unique identification	Vitrified clay pipe system DN300 – FN72 – C
2. Type	Vitrified clay pipe DN300 – 2,5 – FN72 – C Vitrified clay connector GA DN300 – 0,6 – FN72 – C Vitrified clay connector GZ DN300 – 0,6 – FN72 – C Vitrified clay bend DN300 – FN72 – C – 15° Vitrified clay bend DN300 – FN72 – C – 30° Vitrified clay bend DN300 – FN72 – C – 45° Vitrified clay bend DN300 – FN72 – C – 90° Vitrified clay junction DN300150 – FN72 – C/F – 45° Vitrified clay junction DN300150 – FN72 – C/F – 90° Vitrified clay junction DN300200 – FN72 – C/F – 45° Vitrified clay junction DN300200 – FN72 – C/F – 90° Vitrified clay junction DN300200 – FN72 – C/C – 45° Vitrified clay junction DN300200 – FN72 – C/C – 90° Vitrified clay junction DN300250 – FN72 – C/C – 45° Vitrified clay junction DN300250 – FN72 – C/C – 90° Vitrified clay junction DN300300 – FN72 – C/C – 45° Vitrified clay junction DN300300 – FN72 – C/C – 90° Vitrified clay connector GE DN300 – FN72 – C Vitrified clay stopper DN300 – FN72 – 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)}	72 kN/m		
Dimensional tolerances, concerning:			
Internal diameter ^{e)}	Within tolerance		
Length ^{a)}	Within tolerance		
Squareness of ends ^{d)}	Within tolerance		
Straightness ^{b)}	Within tolerance		
Angle of curvature and radius ^{c)}	Within tolerance		
Branch angle ^{d)}	Within tolerance		
Continuity of invert ^{e)}	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 <ul style="list-style-type: none">Moving nozzleStationary 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, bends, junctions & connectors			
f) 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:

