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VITRIFIED CLAY PIPES CO.

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Sweillem Vitrified Clay Pipes CO.

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EN 295-1:2013

Vitrified Clay Pipes for drains and sewers buried in ground

DN 250 – 2.0 – FN 40 - C

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	28 MPa
- Water absorption	< 6.0 % Wt.

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Vitrified Clay connector for drains and sewers buried in ground

DN 250 – 0.75 GZ FN 40 – C

DN 250 – 0.75 GA FN 40 - C

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Angle of curvature	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay connector for drains and sewers buried in ground

DN 250 – 0.25 GE FN 40 - C

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay connector for drains and sewers buried in ground

DN 250 – GM FN 40 - C

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	NPD
- Length	NPD
- Squareness of ends	NPD
- Straightness	NPD
- Continuity of invert	NPD
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	NPD
- Airtightness	NPD
Durability of watertightness against:	
- Chemical and physical resistance to effluent	NPD
- Thermal cycling stability	NPD
- Long term thermal stability	NPD
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay bends for drains and sewers buried in ground

DN 250 –FN 40 – C– 15°
DN 250 –FN 40 – C– 30°
DN 250 –FN 40 – C– 45°
DN 250 –FN 40 – C– 90°

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	NPD
- Squareness of ends	NPD
- Straightness	NPD
- Continuity of invert	NPD
- Angle of curvature	Pass
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay Junctions for drains and sewers buried in ground

DN 250-150 – 0.5 FN 40-34 – C/F 45°
DN 250-150 – 0.5 FN 40-34 – C/F 90°
DN 250-200 – 0.6 FN 40-40 – C/F 45°
DN 250-200 – 0.6 FN 40-40 – C/F 90°
DN 250-200 – 0.6 FN 40-40 – C/C 45°
DN 250-200 – 0.6 FN 40-40 – C/C 90°

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay Repair Junctions for drains and sewers buried in ground

DN 250-150 – 0.6 FN 40-34 – R/F 45°
DN 250-150 – 0.6 FN 40-34 – R/F 90°
DN 250-200 – 0.6 FN 40-40 – R/F 45°
DN 250-200 – 0.6 FN 40-40 – R/F 90°
DN 250-200 – 0.6 FN 40-40 – R/C 45°
DN 250-200 – 0.6 FN 40-40 – R/C 90°

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	R
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay stopper for drains and sewers buried in ground

DN 250 – FN 40 - C

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay Half Chanel for drains and sewers buried in ground

DN 250 – 1.0 – FN 40 - C

Reaction to fire	Class A1
Crushing strength (F_N)	40 KN/m
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	NPD
- Length	Pass
- Squareness of ends	Pass
- Straightness	NPD
- Continuity of invert	NPD
- Joint inter-changeability	NPD
Watertightness (gas and liquid) and permeability as:	
- Watertightness	NPD
- Airtightness	NPD
Durability of watertightness against:	
- Chemical and physical resistance to effluent	NPD
- Thermal cycling stability	NPD
- Long term thermal stability	NPD
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Vitrified Clay Reducer for drains and sewers buried in ground

DN 250-200- FN 40-40 C/C

DN 250-200- FN 40-40 C/F

Reaction to fire	Class A1
Longitudinal bending strength:	
- Bending moment resistance (BMR)	NPD
Dimensional tolerances, concerning:	
- Internal diameter	Pass
- Length	NPD
- Squareness of ends	Pass
- Straightness	NPD
- Continuity of invert	NPD
- Joint inter-changeability	System C
Watertightness (gas and liquid) and permeability as:	
- Watertightness	Pass
- Airtightness	Pass
Durability of watertightness against:	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
Durability of crushing strength and longitudinal bending strength, against:	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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