



Sweillem Vitrified Clay Pipes CO.

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EN 295-1:2013

Vitrified Clay Pipes for drains and sewers buried in ground  
DN 400 – 2.0 – FN 64 - C

Reaction to fire	Class A1
Crushing strength ( $F_N$ )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	Pass
- Airtightness	Pass
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	28 MPa
- Water absorption	< 6.0 % Wt.

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**Ahmed Mohamed Wahid**





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EN 295-1:2013

Vitrified Clay Plain Ended Pipes for drains and sewers buried in ground

DN 400 – 2.0 – FN 64 - C

Reaction to fire	Class A1
Crushing strength ( $F_N$ )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	NPD
- Joint inter-changeability	R
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	Pass
- Airtightness	Pass
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- 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 400 – 0.75 GZ FN 64 – C

DN 400 – 0.75 GA FN 64 - C

Reaction to fire	Class A1
Crushing strength ( $F_N$ )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Angle of curvature	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	Pass
- Airtightness	Pass
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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EN 295-1:2013

Vitrified Clay connector for drains and sewers buried in ground  
DN 400 – 0.25 GE FN 64 - C

Reaction to fire	Class A1
Crushing strength ( $F_N$ )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	Pass
- Airtightness	Pass
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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EN 295-1:2013

Vitrified Clay connector for drains and sewers buried in ground  
DN 400 – GM FN 64 - C

Reaction to fire	Class A1
Crushing strength ( $F_N$ )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	NPD
- Length	NPD
- Squareness of ends	NPD
- Straightness	NPD
- Continuity of invert	NPD
- Joint inter-changeability	System C
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	NPD
- Airtightness	NPD
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	NPD
- Thermal cycling stability	NPD
- Long term thermal stability	NPD
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- 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 400 –FN 64 – C– 15°
- DN 400 –FN 64 – C– 30°
- DN 400 –FN 64 – C– 45°
- DN 400 –FN 64 – C– 90°

Reaction to fire	Class A1
Crushing strength (F <sub>N</sub> )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	Pass
- Length	NPD
- Squareness of ends	NPD
- Straightness	NPD
- Continuity of invert	NPD
- Angle of curvature	Pass
- Joint inter-changeability	System C
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	Pass
- Airtightness	Pass
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- 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 400-150 – 1.0 FN 64-34 – C/F 45°  
 DN 400-150 – 1.0 FN 64-34 – C/F 90°  
 DN 400-200 – 1.0 FN 64-40 – C/F 45°  
 DN 400-200 – 1.0 FN 64-40 – C/F 90°  
 DN 400-200 – 1.0 FN 64-40 – C/C 45°  
 DN 400-200 – 1.0 FN 64-40 – C/C 90°

Reaction to fire	Class A1
Crushing strength (F <sub>N</sub> )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	Pass
- Length	Pass
- Squareness of ends	Pass
- Straightness	Pass
- Continuity of invert	Pass
- Joint inter-changeability	System C
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	Pass
- Airtightness	Pass
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	Pass
- Thermal cycling stability	Pass
- Long term thermal stability	Pass
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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Sweillem Vitrified Clay Pipes CO.

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Vitrified Clay Half Chanel for drains and sewers buried in ground

DN 400 – 1.0 – FN 64 - C

Reaction to fire	Class A1
Crushing strength ( $F_N$ )	64 KN/m
<b>Longitudinal bending strength:</b>	
- Bending moment resistance (BMR)	NPD
<b>Dimensional tolerances, concerning:</b>	
- Internal diameter	NPD
- Length	Pass
- Squareness of ends	Pass
- Straightness	NPD
- Continuity of invert	NPD
- Joint inter-changeability	NPD
<b>Watertightness (gas and liquid) and permeability as:</b>	
- Watertightness	NPD
- Airtightness	NPD
<b>Durability of watertightness against:</b>	
- Chemical and physical resistance to effluent	NPD
- Thermal cycling stability	NPD
- Long term thermal stability	NPD
<b>Durability of crushing strength and longitudinal bending strength, against:</b>	
- Chemical resistance	< 0.15
- Resistance against high pressure water jetting	NPD
- Water absorption	< 6.0 % Wt.

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