

## Declaration of Performance Mells Manholes & Inspection Chambers

1. *Unique identification code of the product type:*

**Precast concrete manholes and inspection chambers (reinforced and unreinforced products)**

2. *Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4) of the CPR:*

**Nominal sizes not exceeding DN1250 circular or LN1250 rectangular (see individual product markings for size and manufactured date)**

3. *Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:*

**For the permitting of access to, and to allow aeration of, drain or sewer systems for the conveyance of sewerage, rainwater and surface water under gravity or occasional low head of pressure, in pipelines that are generally buried**

4. *Name, registered trade name or registered trade mark and contact address of the manufacturer as required under article 11(5):*

**Marshalls Civils & Drainage, Mells Road, Mells, Nr Frome, Somerset, BA11 3PD**

5. *Where applicable, name and contact address of the authorised representative whose mandate covers the task specified under Article 12(2):*

**Not applicable**

6. *System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:*

**System 4**

7. *In case of the declaration of performance concerning a construction product covered by a harmonised standard:*

**BS EN 1917: 2002**

8. *In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:*

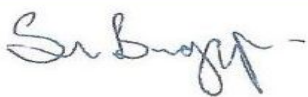
**Not applicable**

9. Declared Performance:

Essential characteristics	Performance	Harmonised technical specification
Opening size/s	As clause 5.4.5 of BS 5911-3:2010	EN 1917:2002 clause 4.3.3.5
Mechanical resistance	<p>Concrete strength test <math>\geq 40 \text{ MPa (N/mm}^2\text{)}</math></p> <p><u>Crushing strength (chamber/shaft) to BS 5911-3:2010 clause 5.5 :</u>                      Strength class 30 - DN900 &amp; DN1050                      Strength class 25 - DN1200 &amp; LN1200 x WN750</p> <p><u>BS 5911-4:2010 clause 5.5 :</u>                      Strength class 40 - LN &lt; 600                      Strength class 30 - LN 600 - 799                      Strength class 20 - LN 800 - 999                      Strength class 15 - LN 1000</p> <p><u>Crushing strength (reducing/capping units):</u>  <u>BS5911-3 Products:</u>                      Reinforced units 120 kN proof load                      Unreinforced units 300kN ultimate load  <u>BS5911-4 Products (clause 5.6):</u>                      18.75kN minimum crushing load.</p>	<p>EN 1917:2002 clauses 4.2.2, 4.3.5, 4.3.6 and 5.2.6.</p> <p>EN 1917:2002 clauses 5.2.4.2 and 4.3.6.2.</p>
Load bearing capacity of any installed steps (by manufacturer)	<p>deflection <math>\leq 10\text{mm}</math> under 2 kN vertical load, with permanent deflection <math>\leq 2\text{mm}</math></p> <p>resistant to 5 kN pull-out force.</p>	EN 1917:2002 clause 4.3.7
Watertightness	50kPa (0.5bar) internal hydrostatic test pressure	EN 1917:2002 clause 4.3.8
Durability	<p>Water cement ratio <math>\leq 0.45</math></p> <p>Max chloride content of 1% (unreinforced products) or 0.4% (reinforced products)</p> <p>Water absorption <math>\leq 6\%</math> by mass</p> <p>Joint validation by Method 1 or 2</p> <p>Concrete cover <math>\geq 15\text{mm}</math> (<math>\geq 20\text{mm}</math> for slabs, adjusting units and corbel slabs)</p>	EN 1917:2002 clauses 4.3.10

10. 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.

Signed for and on behalf of the manufacturer by:



Simon Bugeja  
 Manufacturing Director MLP/Civils & Drainage

Date: 3<sup>rd</sup> September 2020  
 Place of issue: Elland, Halifax, UK

Version History: Version 3 issued due to change in Company name and signatory.