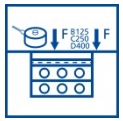
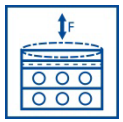
Declaration of Performance

No.: 26/0223

1. Identification code of the product type:	**Polycarbonate manholes**
2. Purpose of use:	**Polycarbonate manholes for underground network access installed under manhole covers in accordance with EN 124**
3. Manufacturer:	**Langmatz GmbH** **Am Gschwend 10** **82467 Garmisch-Partenkirchen** **Germany**
4. Authorised representative:	**/**
5. Assessment and verification of constancy of performance	**AVCP system 4**
6. Basis of the Declaration of Performance based on a Technical Assessment:	**EAD no.: 340225-00-1109 (Feb 2018)** **ETA 26/0223** **Notified body: (Notified body no.: 0063)** **Kiwa Nederland B.V.**

7. Declared performance (Technical Assessment Document ETA 26/0223)				
Essential characteristic	**Description**		**Performance / test values** (Minimum requirement)	
Load-bearing strength - stand-alone complete system: Load case 1: on the centre of the system Load case 2: with multiple covers following load case 1 in a fixed position less favourable for the system		Load-bearing strength test on a stand-alone complete system with the associated cover in accordance with EN 124-1 as well as with a maximum number of unclosed duct openings without reinforcing elements.	No performance assessed	
Shear loading		The smaller, less favourable side of the test specimen must be tested. Shearing of the cover from the body is tested. This allows extreme braking on the cover to be simulated	No performance assessed	
Load-bearing strength in an installed state Load case 1: adjacent static load on the less favourable (longer) side. Load case 2: central static load on the complete system. Load case 3: central static load until failure of the complete system		The test must be carried out on an installed, modular or one-piece complete system, including the associated cover, in accordance with EN 124-1 and with a maximum number of unclosed duct openings without reinforcing elements.	Load case 01: ≥ 300 kN – 10 hours, **passed** Load case 02: B125 ≥ 125 kN, **passed** Load case 02: C250 ≥ 250 kN, **passed** Load case 03: ≥ 350 kN (value to be declared)	✓
Dynamic loading in an installed state Load case 1: adjacent static load on the less favourable (longer) side. Load case 2: central static load on the complete system. Load case 3: central static load until failure of the complete system		The test must be carried out on an installed, modular or one-piece complete system, including the associated cover, in accordance with EN 124-1 and with a maximum number of unclosed duct openings without reinforcing elements.	No performance assessed	

Essential characteristic	Description		Performance / test values (values to be declared)	
Mechanical strength (material) Impact strength Flexural strength | Elongation at flexural strength Tensile strength		Charpy impact properties (EN ISO 179-1) Flexural properties (EN ISO 178) Tensile properties (EN ISO 527-1 to -5)	99.6 kJ/m² 101 MPa | 5.8% 66.5 MPa	✓
Mechanical strength after thermal loading (material)		Mechanical strength tests are carried out after defined temperature changes in accordance with EN 60068-2-14	Strength reduction ≤ 8% Deviations in elongation ≤ 7%	✓
Chemical resistance (material)		Mechanical strength tests The material must be stable after storage in liquid chemicals e.g. storage in mineral oil, petroleum (24 h), lime water (7 days) etc.	Strength reduction ≤ 7% Deviations in elongation ≤ 7%	✓
UV resistance (material)		Mechanical strength tests Use a “narrow band” irradiance process The test duration is defined as 800 hours	Strength reduction ≤ 8% Deviations in elongation ≤ 7%	✓
Fire protection		The polycarbonate manhole systems are tested with the appropriate test methods for the respective fire protection class in order to be classified according to EN 13501-1 in connection with the delegated Regulation 2016/364	No performance assessed	
Occupational health and safety		The dust exposure (inhalation exposure) resulting from mechanical processing, e.g. drilling of pipe inlets, is tested in a critical polycarbonate manhole	“0” no dust and environmental emissions. The result is a complete breakout of the predetermined breaking point without exposure.	✓

The performance of the above product corresponds to the declared performance. The aforementioned manufacturer is solely responsible for preparation of the Declaration of Performance in accordance with (EU) Regulation No. 305/2011.

Garmisch-Partenkirchen, 12. May 2026

Board of Management
Ludwig Fischer

Board of Management
Dieter Mitterer