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Langmatz is the leading manufacturer of high-quality polycarbonate manholes.

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Langmatz polycarbonate manholes are used in different versions as cable draw manholes, telecommunication distribution systems and underground distribution systems.

## Advantages

- Durability and resistance of the entire construction up to D 400 thanks to high-quality polycarbonate and 3D ribFrame technology
- Cost savings thanks to a low net weight, modular design and installation-ready delivery
- Uncomplicated pipe entry through predefined break points in the frame elements
- Easy building on top of existing routes using open frame elements
- Easy integration into any urban setting using different manhole covers (cast iron, concrete, chequered stud plate or paveable)
- Protection against unauthorised access using different locking variants

### Polycarbonate (PC) material

- All load-bearing elements made from plastic: modified polycarbonate (PC)
- High temperature resistance
- Surface finish with hot mix and mastic asphalt non-critical
- Maximum stability
- Fire safety
- Rot proof
- High chemical durability
- High UV and weather resistance
- Can be recycled several times



## Modular Design

Application example: Manhole EK 378, internal dimensions 400 x 800 mm

- Manhole cover for test class B 125 or D 400
- Manhole cover variants:
  - Cast iron (approx. 33 g | B 125)
  - Concrete-lined (approx 95 kg | B 125)
  - Paveable (approx. 87 kg | B 125)
- Hot-dip galvanised steel frame with elastomer pad
  - Weight approx. 23 kg (for cast iron cover)
- Polycarbonate top frame with internal insulated walls
  - Weight approx. 15 kg
- Polycarbonate frame available in various heights
  - Weight approx. 16 kg
- Base plate
  - Weight approx. 3.5 kg

### Practical product

- Continuous height and gradient adjustment
- Sealing elements for cables without conduits
- Optimum integration into the surrounding soil
- Hot-dip galvanised steel frame for mechanical protection of top edge

### Manhole covers

- According to test class DIN EN 124 (A 15, B 125 or D 400)
- Cast iron, concreted, paveable, chequered stud plate
- Closing mechanisms and company logo

### Basic kit

- Every basic kit and complete manhole includes all the required stoppers for sealing lifting and locking holes
- Additional stoppers can be ordered separately



Application example:  
Manhole EK 378,  
internal dimensions  
400 x 800 mm  
(concrete cover)



## Technical Data | Dimensions

Standard manhole sizes – other sizes available on request

Internal dimensions mm	External dimensions mm	Type
240 x 240 mm	315 x 315 mm	EK 337
250 x 250 mm	400 x 400 mm	EK 268
250 x 550 mm	400 x 700 mm	EK 278
400 x 400 mm	550 x 550 mm	EK 358
400 x 650 mm	550 x 800 mm	EK 368
400 x 800 mm	550 x 960 mm	EK 378
400 x 1165 mm	595 x 1300 mm	EK 478
400 x 1600 mm	550 x 1780 mm	EK 628
550 x 550 mm	700 x 700 mm	EK 288
550 x 1165 mm	750 x 1300 mm	EK 338
550 x 1400 mm	700 x 1580 mm	EK 648
650 x 650 mm	800 x 800 mm	EK 388
800 x 800 mm	960 x 960 mm	EK 328
800 x 1165 mm	995 x 1300 mm	EK 508
800 x 1400 mm	960 x 1580 mm	EK 428
800 x 1600 mm	960 x 1780 mm	EK 708
800 x 1825 mm	960 x 1990 mm	EK 728
800 x 2000 mm	960 x 2160 mm	EK 738
800 x 2200 mm	960 x 2354 mm	EK 748



Classification by application area | acc. to DIN EN 124

A15  
15 kN test force



Traffic surfaces used exclusively by pedestrians and bicycles and similar surfaces, e.g. green spaces (group 1)

B125  
125 kN test force



Pavements, pedestrian areas and similar surfaces, car parks and parking decks (group 2)

D 400  
400 kN test force



Road carriageways (including pedestrian streets), parking areas and similar permanent traffic surfaces, e.g. AOD parking areas (group 4)

Langmatz is an innovative plastics and metals processing company.  
With numerous patents, we are constantly setting new standards.

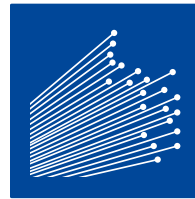
Rooted in the Bavarian Garmisch-Partenkirchen region, we continuously develop high-quality products that meet international standards. We manufacture technologically advanced systems for infrastructure: manholes, underground distribution systems, solutions for fibre optic networks, signal requesting devices and much more – "Made in Germany" is our motivation as well as our obligation.



Polycarbonate manholes



Underground distribution systems



FTtx solutions for optical fibre networks



Outdoor cabinets  
Outdoor pedestals



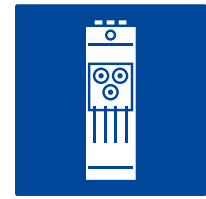
Building cable and pipe entry systems



Products for tunnel construction



Street lights



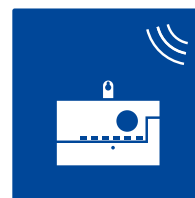
Fuse boxes



Bird protection equipment



Signal requesting devices



Radio ripple control receivers

