



Advantages at a glance:

- Protection against condensation water on the inside also under extremely cold outside temperatures
- Protection against driving rain on the outside and higher protection against drafts ("blower door" Test)
- Ideal for passive houses and outside arcade doors
- Available with thumbturn knob and asymmetrical cam
- Foam rubber insulation for sealing the door lock

Kaba thermally insulated cylinder Cold outside - dry inside

Secure access in any weather

The thermally insulated cylinder (TIC) is thermally insulated by separating the outside and inside of the cylinder housing with a plastic middle piece. This prevents coldness and moisture from being transferred from the outside to the inside. The TIC cylinder is suitable for all applications in which water from condensation or even the formation of ice on the inside of the cylinder can be expected. In addition, this cylinder is sealed off against driving rain. At the same time, the sheet rain seal increases tightness against drafts.

Certificates

- EN 1303:2015-08 with classification key: 16B0C6B
- EN 1634-1 Fire protection test
- Driving rain proof according to ÖNORM EN 12208 Grade E1050



In the laboratory test condensation water formed with a conventional cylinder



With the TIC cylinder no condensation water was formed

Tested security for use in adverse weather conditions

In the test environment

- Outside temperature: -20°
- Inside temperature: +21°
- Relative humidity: 40%

condensation water formed with conventional cylinders, that runs or drips down the door. With the TIC cylinder however, the inside remained dry and no condensation water formed, that could lead to damage on the door or the floor covering inside.

Functions

The double cylinder is only available with the key override function for both cylinder sides (BSZ).

Designation

Along with the thermal separation, this cylinder also has protection against driving rain. This however requires an exact declaration of the outside and inside including the respective lengths that are later to be marked on the cylinder. The outside (A) is always the side on which the cylinder is marked with the key system/serial number.

Installation

The cylinder is to be installed according the installation and maintenance instructions supplied with the cylinder. The cylinder fastening screw supplied with the cylinder may only be tightened by hand with a screwdriver. Due to excessive torque, never use a power screw driver or power drill. The foam rubber insulation supplied with the cylinder is installed between the door leaf and cylinder. Due to the thermal separation, which is made of plastic components, we recommend to install burglary resistant rosettes with pulling protection. dorma+ kaba offers an attractive assortment of security door hardware.

Maintenance

Clean and lubricate at least once a year with Kaba cleaner

Included with the cylinder

Every TIC cylinder is supplied with:

- Security card for legitimation to order replacement keys or cylinders
- 3 reversible keys with dark blue SK clip (unless specified otherwise)
- 1 foam rubber seal
- Fastening screw
- Operation and maintenance instructions

Order code

Example for double cylinder: System/DZ/TIC/40/55/NI/BSZ

Example for thumbturn cylinder: System/DKZ/TIC/45/55/RK/NI

Technical features

Systems

- available in all current Euro reversible key systems

Types

- Europrofile cylinder ø17mm
- Double cylinder (DZ)
- Thumbturn cylinder (DKZ)
- both are available as "short cylinders" with asymmetric cam

Thumbturn knobs

- Round knob (RK)
- Mega knob (MK)
- Oval knob (OK)

Lengths

- shortest overall length 80 mm
- shortest side length 35mm
- longest side length 80mm
- shortest cylinder 35+45mm

Surface finishes

- nickel plated (NI)
- dull brass (MS)

Coupling

- double key override (BSZ)

Cam

- Biffar, 4-tooth, ZR10, ZR18

Construction phase function

- Available depending on the system