

# PRODUCT DATA SHEET



**8000Ω<sup>2</sup> double cylinder 81.E15 VdS BZ(+)**

ASSA ABLOY

**sullus**  
security systems

SKU KESO.8000.DZ.81.E15

Producer No. 81E15

KESO 8000Ω<sup>2</sup> is the latest generation of mechanical and mechatronic locking systems with new active copy protection. The reversible key system can implement both complex and simple locking systems.

A new type of modular system with insert technology ensures that the cylinders can be extended or shortened on site without any problems. Many technical refinements round off the system for all imaginable applications.

With a patent term until 2034 and functional design protection until 2044, the new KESO system offers very long investment protection.

## Basic length

- from 30/30 mm
- measured from the middle of cam
- extension 5 mm per side



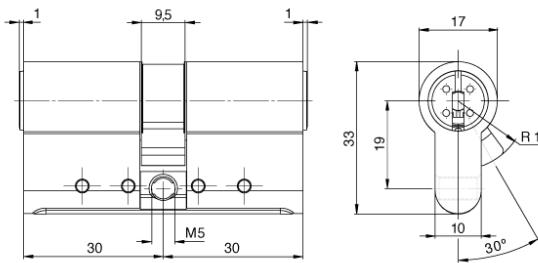
## Technical characteristics

- innovative modular system: cylinder design based on a modular insert system
- active copy protection Omega<sup>2</sup>
- high protection against drilling and pulling certified according to VdS BZ(+), 2386: 2012-07
- two independent drilling lines and up to 15 hardened pins (pin locking elements) result in complex combinatorics
- with hardened locking elements HRC60
- picking protection
- patented front profile in key stop



## Execution

- reversible key system
- cylinder body: chrome nickel steel
- connecting bar: chrome nickel steel
- vertical, easy key insertion
- compatible with mechatronic and electronic components of the KESO-Integra platform
- not compatible with other KESO systems



## Options / Special equipment

- different cylinder finishes \*
- emergency and danger function (priority function)
- freewheel \*\*

## Key

- key thickness: 2,5 mm
- reversible key made of unbreakable, corrosion-resistant nickel silver
- max. 5 drilling rows with up to 4 drilling depths
- additional protection through elevation in the key (active copy protection)
- outstanding precision mechanics and high-quality design
- special embossing processes produce high-contrast surfaces with a pleasant feel
- different colours for key caps (optional)
- different key types (optional)
- an additional RFID in the colour cap allows integration into electronic systems such as alarm systems (only for long keys with colour cap) \*\*

## Cylinder version

- without pulling protection 81.A15
- with pulling protection 81.B15
- according to VdS A
- according to VdS B

## Operational area

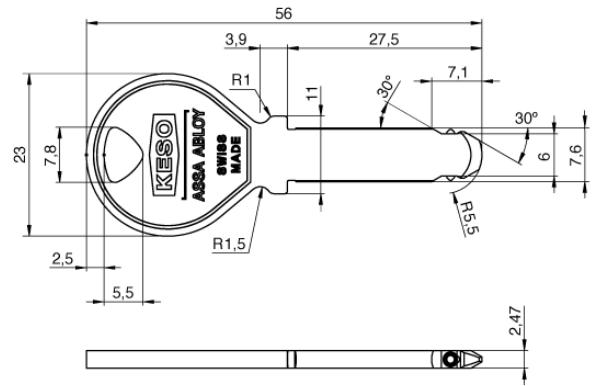
- indoor and outdoor
- for mortise locks and all types of surface-mounted locks
- residences
- office or commercial units, industrial complexes
- hospitals, retirement and nursing homes, hotels
- high security systems

## Scope of delivery

- double cylinder incl. ordered key
- 1 fixing screw M5
- security card

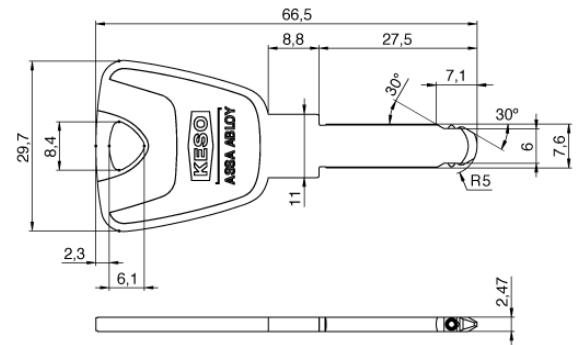
## Round key

- the classic among the key forms



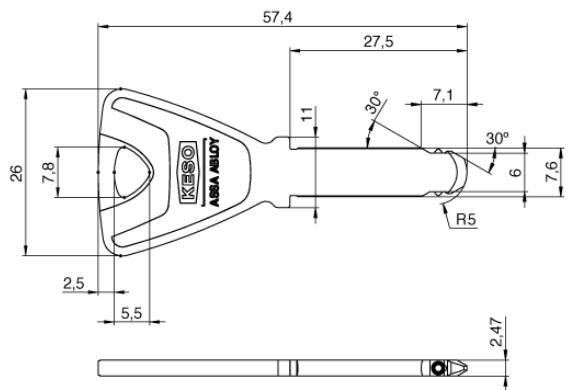
## Long key

- due to its design, the long key is ideally suited for use where protective fittings with protector discs are used
- due to its exclusive bow, the long key offers increased user-friendliness
- lies comfortably in the hand, easy operation of the cylinder
- optionally with colour caps for easier identification on the key ring



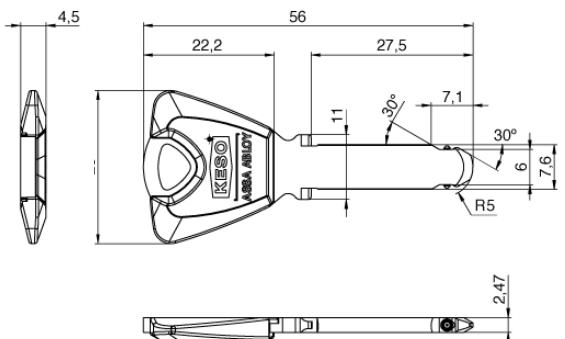
## Trapezoid key

- due to its exclusive bow the trapezoid key offers an increased user-friendliness
- lies comfortably in the hand, easy operation of the cylinder
- optionally with colour caps for easier identification on the key ring



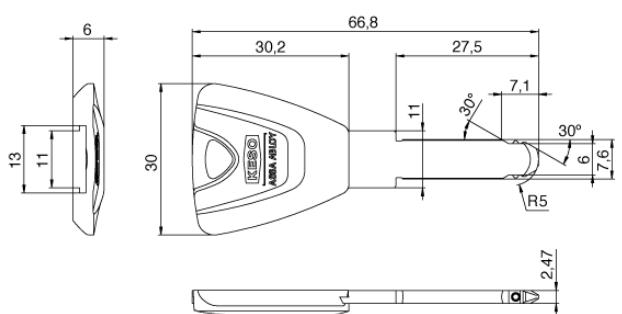
## Colour cap key

- clear differentiation of keys by coloured caps
- 13 different colours



## Long key with coloured cap

- with coloured caps for easier identification on the key ring
- on request with RFID technology for third-party applications



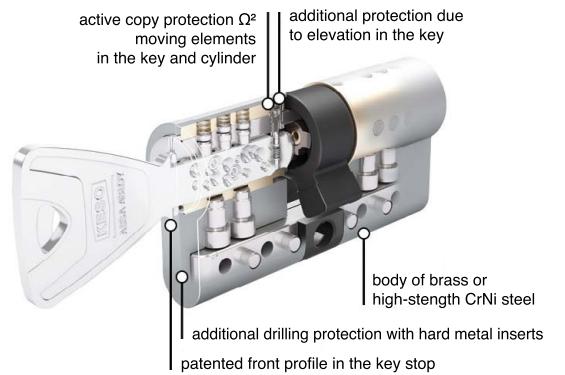
## Technical details

### Active copy protection $\Omega^2$

The active copy protection Omega<sup>2</sup> consists of integrated movable elements in the key, which are scanned by several dividing lines in the cylinder. It is therefore not possible to use standard blanks for key copies. This patented technology offers maximum protection against picking attempts and illegal key copies. Since key blanks are only delivered pre-drilled ex works Switzerland to certified and licensed security partners, they cannot be sold on the open market. This means you can be sure at all times that no unauthorized copies of your key can be made and that only original KESO keys can open KESO cylinders.

Two independent drilling lines and up to 15 hardened pins (pin locking elements) result in a complex combinatorics of the locking system. This not only guarantees outstanding security, but also a high level of cost-effectiveness. Thus, your system can be expanded and upgraded at any time. This ensures greater flexibility and optimum investment security.

Consistent security measures in the cylinder, the use of high-quality materials, the targeted use of carbide inserts and a complex interlocking of various measures in the cylinder protect against manipulation, drilling, pulling out or breaking off. All these measures ensure the secure feeling of being optimally protected against burglary.



### Cylinder 81.E15 certified according to VdS BZ(+)

These cylinders offer the highest protection against drilling and pulling. Due to hard metal inlays in the rotor and the cylinder body as well, they resist attacks with hard metal and HSS tools (one-sided on the outside). Cylinder designs to VdS BZ(+) use a high-strength chrome-nickel steel cylinder body.

