

# METTEM® LEADER



*recent development of METTEM-  
Production, LLC on the basis of  
patented Russian inventions*

*unsurpassed resistance to any  
criminal opening*

*breakage of tumblers springs and  
key wringing are excluded*

*best price for better protective  
characteristics as compared with  
traditional level locks*

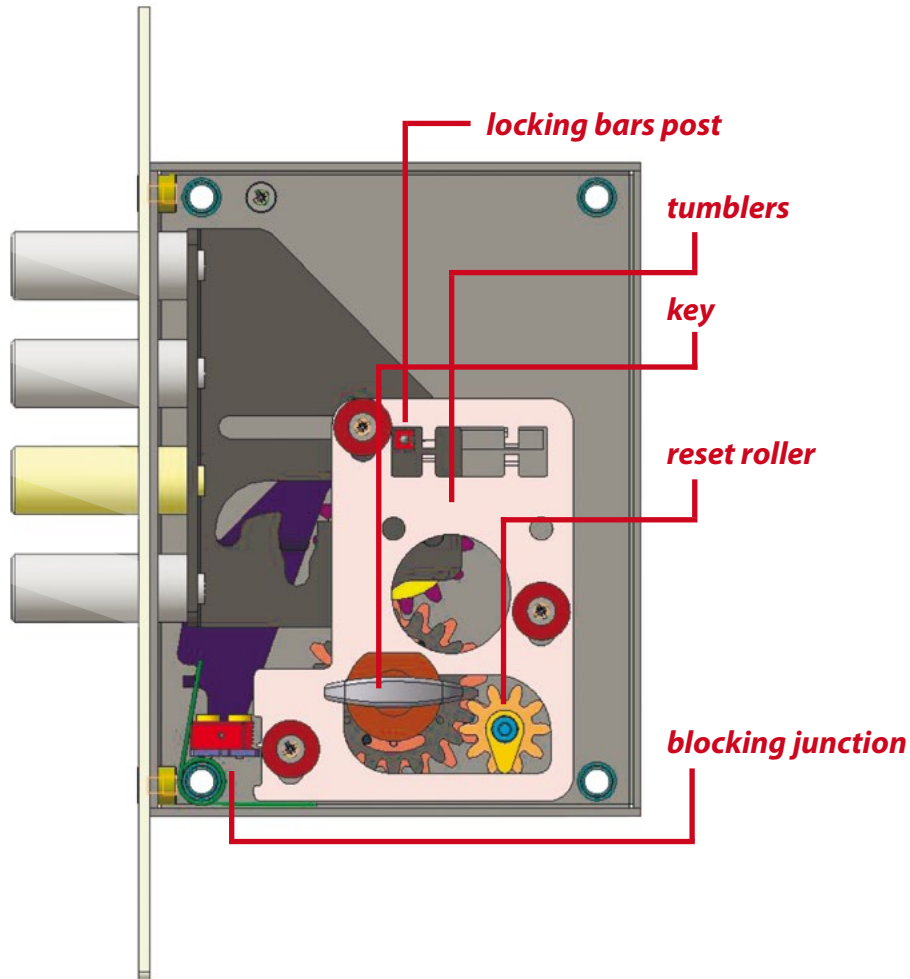
**METTEM® LEADER  
ZV8 611.0.1**

A fundamentally new level lock on the basis of the patents No 2387774 and No 2504632.

- ✓ **consecutive reading of the lock's code is excluded**, which makes it impossible to use any criminal methods which are used to open traditional level locks;
- ✓ **ample quantity of the lock's coded combinations** makes it impossible to pick a key;
- ✓ hard-alloyed pieces in the construction make it **impossible to break the lock by drilling**;
- ✓ the lock's design includes specially weakened details **to resist the wringing**;
- ✓ the lock's design provides **high resistance when driving-in and wrenching out the locking bars**;
- ✓ such defects of traditional level locks as **brackage of tumblers and key wringing are excluded**;
- ✓ **the unique construction** of the lock with no usual tumblers springs provides **exceptionally small wear of the key's and the tumblers coded elements** which secure the lock's secretness for many years;
- ✓ **proper to METTEM® traditionally high quality of the lock manufacturing.**

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**1** In the initial position (the locking bars are pulled out) the locking bars are blocked.

**2** When turning the key the tumblers become free from the action of the reset roller. The locking bars remain blocked.

**3** The tumblers are settled in accordance with the first bit of the key. The locking bars remain blocked.

**4** The tumblers are strongly fixed by the blocking junction. Only after that the locking bars are unlocked.

**5** The locking bars move backwards half-way of their motion. The tumblers are unlocked. The reset roller returned them to the initial position. The locking bars are blocked again.

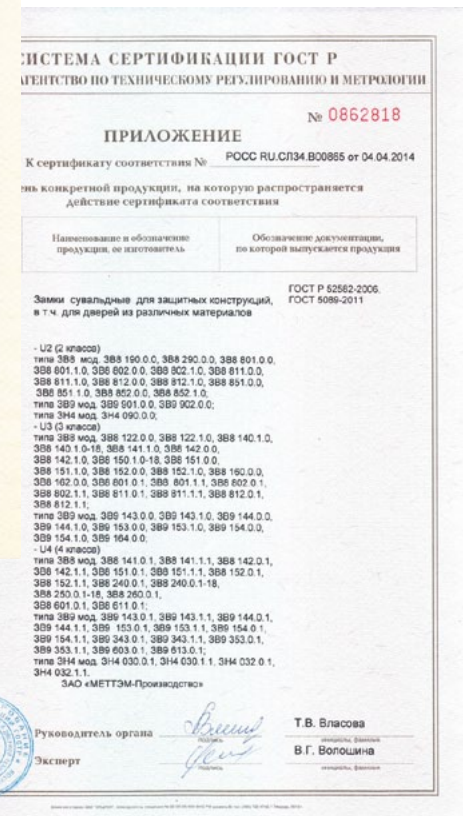
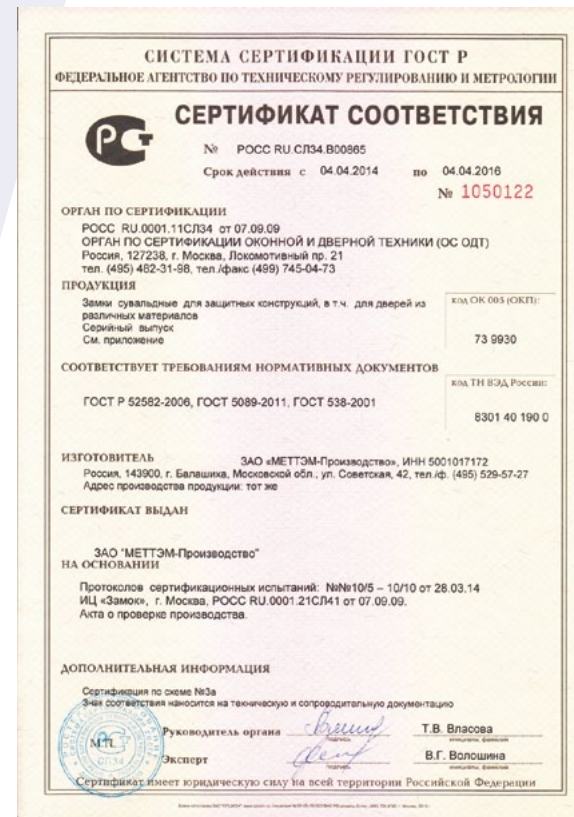
**6** When turning the key from this point on all the phases repeat, and at the same time the locking bars move backwards for the second half of their motion.

**METTEM® Leader** is resistant to such widespread today method of criminal opening as impression and a self-impression feeler. The tests proved that **METTEM® Leader** lock, unlike many other level locks, will withstand an attack of a self-impression feeler and will not allow to malfactor to open the lock.

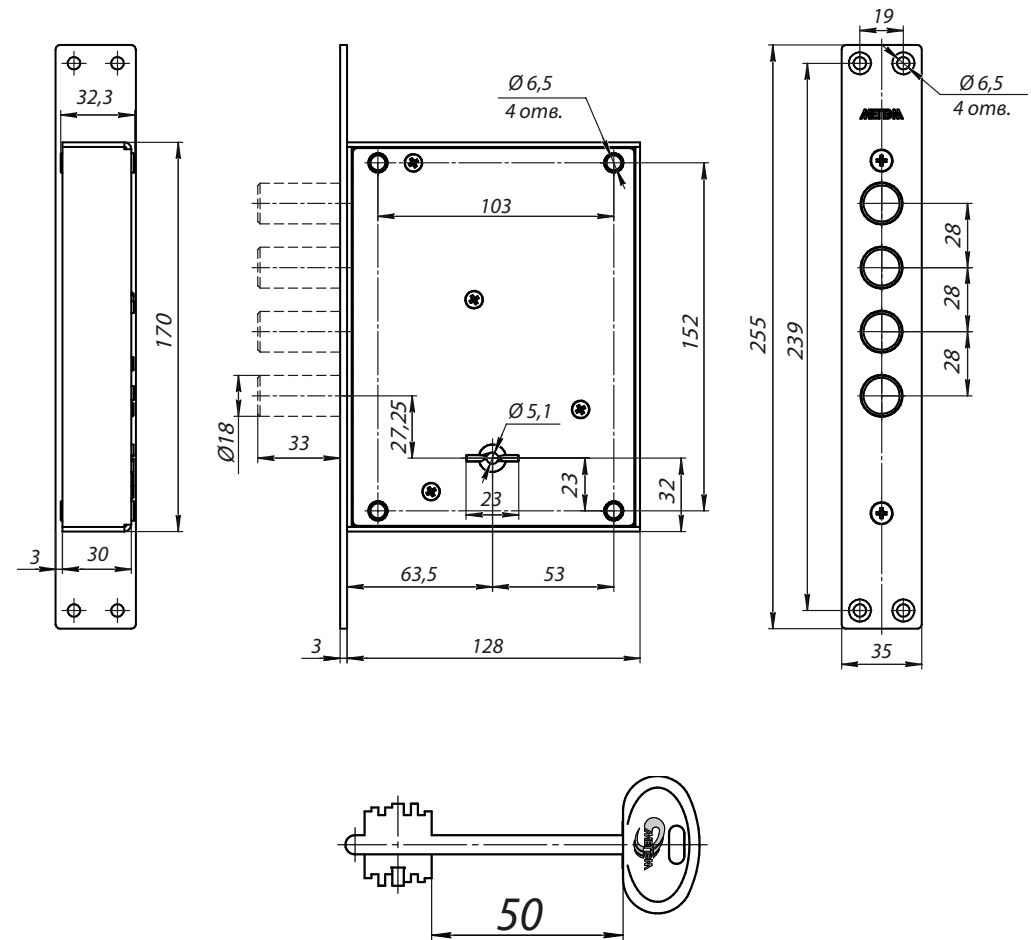
**METTEM® Leader** was tested by the specialists of FGKU "V/ch 35533" (test report No 98-C from 11.12.2013 г.), who proved the impossibility to decipher the lock's coded combination by any mechanical feelers and optical instruments, and they also ascertained, that by its resistant index to the non-destructive methods of criminal opening this model corresponds to the highest 4th class of the Russian governmental standard 5089-2011 (No ROSS RU.CL.34.B00856).

In addition to high resistance to well-known non-destructive methods of criminal opening, **METTEM® Leader** is resistant to such mechanical modes of illegal access as:

- **sawing of the locking bars** (roller in one of the locking bars);
- **drilling of the coded post** (roller at full length of the coded post);
- **drilling of the lock's details** (rollers in the axes of the blocking lever, gear wheels with the drivings of the locking bars actuators);
- **driving-in of the locking bars** (the locking bars are stopped not by the coded post, as it is in traditional locks, but by two drivers 6 mm in diameter each);
- **wrenching out of the locking bars** (one third of the length of the locking bars remains in the lock's body when the lockign bars are moved forward at their full motion);
- **wringing** (weakened drivers in the kinematic chain of the locking bars actuator).



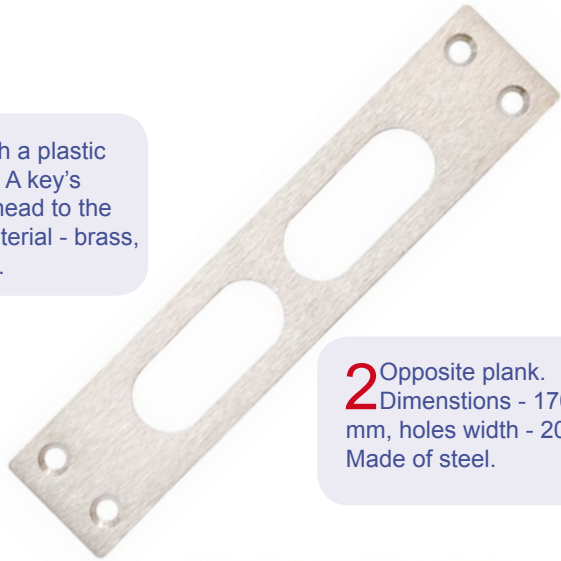
model	ZV8 611.0.1
class GOST (5089-2011)	4 <sup>th</sup> (the highest)
purpose	entrance doors of private premises and public buildings (metal, steel, reinforced, armored)
mode of installation	mortise, with an option to be installed with no front plank
chief dimitions	255x131x35 mm
body material	steel, covering - powdered
locking bars material	steel, covering - nickel
number of half-turns	2
number of locking bars	4
lockign bars deiameter	18 mm
locking bars motion	33 mm
number of keys	5 pcs.
key's length	50 mm
one piece gross weight	2,15 kg
package quantity	10 pcs.
package gross weight	21,7 kg
basic kit	lock, set of plates, opposite plank, keys, manual, wrapping
details on demand	protective plate 60.1.122
producer's guarantee	2 years from the date of sale



## Accessory, components



**1** A key with with a plastic head (5 pcs.). A key's length form the head to the bit is 50 mm. Material - brass, coverign - nickel.



**2** Opposite plank.  
Dimenstions - 170x35 mm, holes width - 20 mm.  
Made of steel.

**3** Set of plates on a key hole.  
Made of stainless steel.



**4** Protective plate 60.1.122 (on demand). Made of mangamese steel 65 Г (HRC), 3 mm thick.

### Your regional METTEM® representative





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