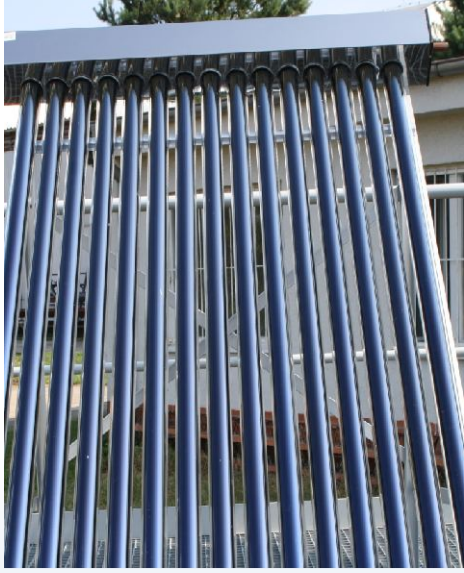
TSU®

Solar collector device used for conversion of solar energy into thermal energy. Solar energy is an alternative renewable source of energy.



Solar collector testing laboratory

PERFORMED TESTING

Solar systems and solar collectors testing laboratory provides performance of all the tests required by STN EN 12975-1:2006 Standard „Thermal solar systems and components. Solar collectors. General requirements“:

- Reliability testing
  - Internal pressure test for absorber
  - High-temperature resistance test
  - Exposure test
  - External thermal shock test
  - Internal thermal shock test
  - Rain penetration test
  - Freeze resistance test
  - Mechanical load test
  - Rain penetration test
- Thermal performance
- Determination of pressure drop

Meeting of requirements of STN EN 12975-1:2006 Standard is verified on the base of STN EN 12975-2:2006 Standard „Thermal solar systems and components. Solar collectors. General requirements. Test methods“.

TSU Piestany s.p. is accredited for testing of thermal solar systems and components. Accreditation certificate S-062 was granted by SNAS according to STN EN ISO/EC 17025:2005.

Government grants for solar collectors

PROGRAM OF HIGHER UTILIZATION OF BIOMASS AND SOLAR ENERGY IN HOUSEHOLDS

In the Slovak republic, appliers for governmental grants for solar collectors on the base of the program of higher utilization of biomass and solar energy in households since 1st January 2010 are required not only to have SOLAR KEYMARK label but furthermore the confirmation of minimal energy gain per year. TSU Piestany is the Authorized Body for purposes of this Program.

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TSU®

Solar Keymark

CERTIFICATION OF THERMAL SOLAR SYSTEMS AND COMPONENTS

The **Solar Keymark** is a voluntary third-party certification mark for solar thermal products demonstrating to end-users, that a product conforms to relevant European standards and fulfills additional requirements. The **Solar Keymark** was developed by the European Solar Thermal Industry Federation (ESTIF) and CEN (European Committee for Standardization).

The **Solar Keymark** is a CEN/CENELEC European mark scheme solely dedicated to:

- Solar thermal collectors (based on European standard series EN 12975)
- Factory made solar thermal systems (based on European standard series EN12976)

TSU Piestany is an empowered Certification Body and accredited testing laboratory for thermal solar products. It's an unique Certification Body for **Solar Keymark** in Central Europe and the only accredited laboratory for **Solar Keymar**k in the Slovak Republic.

BENEFITS OF THE SOLAR KEYMARK

- one test with validity for all European countries
- required to gain governmental grants
- high quality of products
- simplified testing procedure
- guarantee of identity of product sold and tested product
- competitiveness

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