

Endurance transverse-tensile test rig

Test rig for determination of mechanical strength of metal profiles with thermal separation

Type: DQZ



1 Description endurance transverse-tensile test rig DQZ

Test rig and accessories for testing the mechanical strength of metal profiles with a thermal separation, according to EN 14024, intended mainly for windows, doors, window walls and curtain walls.

The test specimens are subjected to a tensile force of up to 1000 N in the insulated test chamber at an adjustable temperature of up to 80°C. The force is built up by compressed air cylinders mounted outside the chamber. Four test chains are provided in the standard version. However, the design variant and size of the test device can be manufactured individually according to customer requirements.

2 Test according to the following standards

Testing characteristics	Standards
<i>Metal profiles with thermal separation</i>	
Aging / endurance transverse-tensile acc. to procedure 1	EN 14024; ABS 5.5.2

3 Technical data

- Dimensions in mm:
ca. 2940x1140x600 (BxHxT)
- 4 test chains with 1500 mm each for 10 profile specimens
- Temperature resistant isolation up to 100 °C
- 4 test cylinders: max. test force approx. 1000 N
- Required supply:
 - Safety socket: CEE 16 A 230/400 V
 - Compressed air: 8 bar
- Temperature range 70...80°C ± 3°C

4 Scope of delivery

Basic version:

- Stainless steel test chamber with heat resistant insulation for four test chains:
- temperature controller for the specimen temperature
- Temperature controller for heating system
- Excess temperature monitoring
- Pressure regulator for setting the test force
- Operating hours counter
- ISO temperature calibration

5 Optional features / modifications

The following features can be offered on enquiry:

- Individual coating of the frame
- Higher tensile force
- More test chains
- Longer test chains
- more test chambers
- After a consultation, individual special conversions are possible, especially according to customer requirements
- Evidence of temperature distribution
- Sample temperature sensor

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