

TERMINAL DEVICES

These requirements apply to terminal devices that are mainly intended for use as terminal devices in public buildings, as well as shop, office and residential buildings. Devices in this group include pressure equalization boxes, chilled beams, heat transferrers for beams, low-speed air diffusers, nozzle ducts, and fan and nozzle convectors

The products must fulfil the general requirements of Section 3.2.2.1 of the Internal Climate Classification 2008 (Sisäilmastoluokitus 2008).

Tests to be carried out on terminal devices and associated requirements

Property	Requirement	Notes
Fibre detachment test using a vibration test (see the testing instructions in Appendix 7)	< 10 fibres/m ³ in the vibration test (> 20 µm of fibres)	Mandatory for products that use mineral wool as an insulator
Sensory tests (see Appendices 1 or 6 for testing instructions or the sensory evaluation of building materials in accordance with the emission classification)	-trained panel: intensity < 4 -untrained panel: acceptability > +0.1	Carried out if required
Oiliness	Oiliness of materials produced using processes that require oil <0.3 g/m ²	The oiliness test may be replaced by emission tests for building materials as specified on a case-by-case basis
Emissions of insulation materials that are used	Fulfil the requirements of emission class M1 for building materials	

In addition to the measurable requirements, products must fulfil the following special requirements (see [the application form](#))

- The technical noise and flow properties of terminal devices must be known
- Labels are not affixed to the surfaces of products
- Usage and cleaning instructions are available for terminal devices, along with the nominal flow and any applicable usage restrictions
- The products fulfil the requirements of Section 3.2.2.1 of the Internal Climate Classification
- Classified products are marked in such a way that they can be easily distinguished from unclassified supplies. The marking can withstand normal transportation, storage and handling on construction sites.
- The products are protected from becoming dirty during storage at the factory and transportation in a manner that enables them to withstand the prevailing conditions during transportation and on construction sites. Product-specific transportation, storage, installation and servicing instructions are issued and the instructions cover essential matters related to cleanliness.

Examples of the tests to be carried out for various products:

Product Terminal device	Oiliness test	Vibration test (fibres)	To be noted
Products containing mineral wool with a metal or plastic cover	If necessary, requirement < 0.3 g/m ³	< 10 fibres/m ³	<p>1) The mineral wool that is used must fulfil the requirements of emission class M1 for building materials</p> <p>2) If no oiliness test is carried out for a product or if the oiliness test is not required for the product, the product as a whole will be tested in accordance with the emission classification for building materials, and air circulation and load must be ensured. The requirement is emission classification M1</p>
Ordinary terminal devices and powder-coated parts			The special requirements of the products are known. If necessary a certificate is attached to the application.
Fan and nozzle convectors			Fan convectors are tested in accordance with the emission classification for building materials when the fan is activated. The requirement is emission classification M1.
Plastic-insulated product with a metal cover	< 0.3 g/m ³		<p>1) The insulation that is used must fulfil the requirements of emission class M1 for building materials</p> <p>2) If no oiliness test is carried out for the product, the product as a whole will be tested in accordance with the building materials test, and air circulation and load must be ensured. The requirement is emission classification M1.</p>