

Swedish Technical Approval

SC0296-14

and decision on production control, in accordance with chapter 8, 22 and 23 §§ Planning- and Building Act (2010:900), PBL

Granab, subfloor system

Holder

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Product

Girdered raised floor consisting of adjustment screws, steel sections, support block, dampening elements and surface layer of 22 mm thick flooring grade particleboard.

Intended use

Air column-forming, adjustable floor construction intended to be installed in areas corresponding to load category A, residential rooms-floors according to EKS, Boverket mandatory provisions and general recommendations on the application of European design standards (Eurocodes).

Trade name

Granab golvregelsystem 3000N, 7000N and 9000N.

Approval

The products satisfy the requirements set forth in chapter 8, 4 § 1 and 5 PBL, in respect to and under conditions stated in this certificate, and are therefore approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR) and Boverket mandatory provisions on application of the European construction standards (Eurocodes), (EKS): both issued by the National Board of Housing, Building and Planning.

BBR

Acoustic conditions*

7.2

EKS

Durability

Section A, article 7

Design through calculation and testing **

Section A, article 9

Action on structures

Section C, article 8

Materials

Section A, article 11

*The construction has impact sound reducing properties that may be variable in each case.

**Design in accordance to national application of relevant Eurocodes.

Associated documents

Granab golvregelsystem "N" Projekterings/Monteringsanvisning, dated 2014-02-07.

Control

Production control is to be performed in accordance with instructions for control dated 2014-04-07. An independent inspection body audits the control.

Control agreement: No. 210-04-0154.

Inspection body: SP Technical Research Institute of Sweden.

When the building proprietor performs inspection at the building site, he shall check the markings to ensure that the correct products have been supplied and that they are used in accordance with the requirements stated in the approval and the associated documents. He must also check that the product is accompanied by a manufacturing assurance, which certifies that the product has been manufactured in accordance with the documents on which this approval is based.

Manufacturer

Production control includes the following site:

Bygg-och Miljöteknik Granab AB, Vårgårda

Marking

The product is to be marked at the factory. The marking consists of labels on the packaging material, as well as information in the accompanying manufacturer's declaration and includes:

Approval holder
Manufacturing site

**Bygg-och Miljöteknik Granab AB,
Vårgårda**

Boverket's registered trademark
Certification body and accreditation number

**SP Certifiering 1002
Granab golvregelsystem**

Product type designation

3000N/7000N/9000N

Approval number

SC0296-14

Consecutive manufacture no./date of production

no./date

Inspection body

SP

Basis for approval

Reports 4P02040, 3P04159-A, 3P04159-C, 3P04159-E, 4P02605-B, P302700C, 3P03903, P501330-1, P705473, PX05294A, PX05294B, 4P00999, 3P05281 and opinion P503562 issued by SP Technical Research Institute of Sweden.

Documents:

- ÅF 6026682/591786 issued by ÅF-Infrastructure AB
- SVAREA IVF 513015 issued by Swerea IVF AB
- Plastspecifikation Polyfill PPC GF7020, PD2 issued by Polykemi AB
- Included components issued by SP Certification dated 2014-06-18
- List of drawings dated 2014-08-21

Comments

The particleboard must be CE marked in accordance with EN 13986, with a thickness of 22mm, in at least technical class P6 according to EN 312 and approved for splicing between joists for use in load category A, residential rooms and spaces /floors.

When testing sound characteristics, a weighted impact sound improvement of $L_{n,w}=26\text{dB}$ for Granab subfloor system 7000 N6 (dampening element $t=6\text{mm}$) as well as $L_{n,w}=29\text{dB}$ for Granab subfloor system 7000 N12 (dampening element $t=12\text{mm}$) has been recorded, for a construction (mounted on a stiff concrete slab) consists of Granab subfloor system 7000, 22 mm flooring grade particleboard, rag board and 15 mm wood flooring. The measured value for weighted impact sound improvement meets requirements for flooring surface class 8A according to SS 25267 Appendix B.

Granab subfloor system 3000 N6/N12 is judged to have equal impact sound improvement performances as Granab subfloor system 7000 N6/N12.

Period of validity

This approval is valid until 2019-08-25.

The validity of this approval expires when the product shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

SP National Research Institute of Sweden Certification

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