

Granab, subfloor system

Holder/Issued to

Bygg & Miljöteknik Granab AB

Åkerigatan 2, SE-447 37 Vårgårda, Sweden

Product description

Girdered, raised floor construction consisting of adjustment screws, steel profiles, LVL beams, support block, dampening elements and surface layer of 22 mm thick flooring 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 Swedish application of European design standards (Eurocodes), section C, article 8. The product shall be used in corrosivity class C1.

Trade name

Granab golvregelsystem 3000N, 7000N, 8000W 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 type approval, 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, 16 §

Materials

Section A, 17 §

Design by testing and calculation**

Section A, 22 §

Calculation models and calculation methods**

Section A, 23 §

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

** Design according to relevant Eurocodes and national determined parameters in EKS.

Associated documents

Granab Golvregelsystem "N" Projekterings-/Monteringsanvisning, dated 2021-10-28.

Control

The factory production control (FPC) is monitored by an independent inspection body.

Type Approval SC0296-14 | issue 3 | 2021-12-21

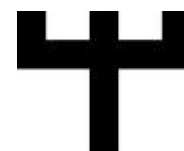
RISE Research Institutes of Sweden AB | Certification

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Control plan: Ref no. 210-04-0154 dated 2004-04-07 Inspection body: RISE Research Institutes of Sweden.

When the building proprietor performs inspection at the building site, markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this type approval and associated documents. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this type approval is based.

Manufacturing place

Production control includes the following place:

Bygg & Miljöteknik Granab AB, Åkerigatan 2, SE-447 37 Vårgårda, Sweden.

Marking

The products are to be marked at the factory. The marking consists of a label on every product/packing supplied and includes:

Holder/Distributor	Bygg & Miljöteknik Granab AB
Manufacturing place	Vårgårda
Product type designation	Granab golvregelsystem
Consecutive manufacture no./date of production	no./date
Type approval number	SC0296-14
Boverket's registered trade mark	†
RISE Accreditation number	1002
Certification body and Inspection body	RISE

Basis for approval

Report 4P02040, 3P04159-A, 3P04159-C, 3P04159-E, 4P02605-B, P302700C, 3P03903, P501330-1, P705473, PX05294A, PX05294B, 4P00999 and statement P503562 from SP Technical Research Institute of Sweden.

Report Ca910812 6P06813 150818-A 150818-B 150818-C, O100287-150808-10, O100287-150818-11, O100277-178589A och O100277-178589B from RISE Research Institutes of Sweden.

Document: ÅF PM01 6026682/591786 and ÅF PM02 6026682/591786 from ÅF-Infrastructure AB; SVAREA IVF 513015 from Swerea IVF AB; Plastspecifikation Polyfill PPC GF7020 PD2 E15 from Polykemi AB. Ingående komponenter för Granab Golvregelsystem 3000N, 7000N och 9000N, dated 2021-12-13. Ritningsförteckning dated 2021-12-13.

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 has been recorded:

	weighted impact sound improvement	construction (mounted on a stiff concrete slab)
7000 N6 (dampening element t=6mm)	Ln,w=26dB	subfloor system 7000, 22 mm flooring grade particleboard, rag board and 15 mm wood flooring.
7000 N12 (dampening element t=12mm)	Ln,w=29dB	
S 8000 W (dampening element t=6mm)	Ln,w=27dB	subfloor system S 8000 W, 22 mm flooring grade particleboard, rag board and 15 mm wood flooring.
S 8000 W (dampening element t=12mm)	Ln,w=30dB	

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

Associated documents shall accompany the product or by other means be available to users of the product.

This type approval supersedes the previous type approval with the same number dated 2019-05-21.

Validity

Valid through 2024-05-20.

Validity of this type approval can be verified on our website.

The validity of this type approval expires when the type approved products with the intended use according to this type approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Martin Tillander

This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish text shall take precedence