

SINTEF Technical Approval

TG 20896

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 Valid until 01.09.2031
 Provided listed on
www.sintefcertification.no

SINTEF confirms that

S-Base

has been found to be fit for use in Norway and to meet the provisions regarding product documentation given in the regulation relating to the marketing of products for construction works (DOK) and regulations on technical requirements for building works (TEK), with the properties, fields of application and conditions for use as stated in this document



1. Holder of the approval

Solidum EST AS
 Stjørdølaveien 17C
 5515 Haugesund

2. Product description

S-Base is a foundation product for temporary buildings made up of standard building modules. S-Base consists of a base plate made of recycled PVC with galvanized steel plates bolted to the base and an L-shaped steel support welded to a threaded rod and wing nuts, see Figure 1.

The width and length of the PVC-base plate is 600 mm, The steel support can be adjusted up to 330 mm measured from the bottom of the base. See figure 2.

3. Fields of application

S-Base can be used as foundations for temporary buildings.

The foundations shall be placed on compacted and levelled ground which have sufficient resistance to prevent the foundations from sinking into the ground.

4. Product performance

Load-carrying capacity

The maximum design resistance (R_d) of S-Base foundations is given in table 1. The table also give a minimum ratio between the vertical and horizontal design actions (E_d).

The load-carrying capacity have been found by laboratory testing and statistical evaluation according to EN 1990 annex D.

Safety in case of fire

The galvanized steel components have class A1 with respect to reaction to fire according to EN 13501-1.

Reaction to fire class for the PVC-Base plate is not determined.

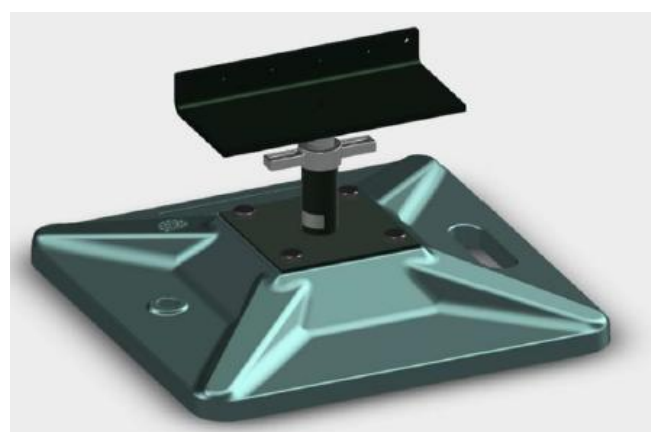


Fig. 1

S-base made of recycled PVC and bolted steel plate and steel support with threaded rods and wing nuts

Table 1

Load-carrying capacity of S-Base

Property	Value
Vertical design resistance: $R_{d,vert}$	< 80 kN
Horizontal design resistance: $R_{d,hor}$	< 10 kN
Ratio between vertical and horizontal load: $E_{d,vert} / E_{d,hor}$	> 3

Durability

S-Base is considered to have sufficient durability for continuous outdoor use of up to 36 months.

After continuous use as foundations for a temporary building, they shall be evaluated by the manufacturer for further use.

SINTEF is the Norwegian member of European Organisation for Technical Assessment, EOTA, and European Union of Agrément, UEAtc

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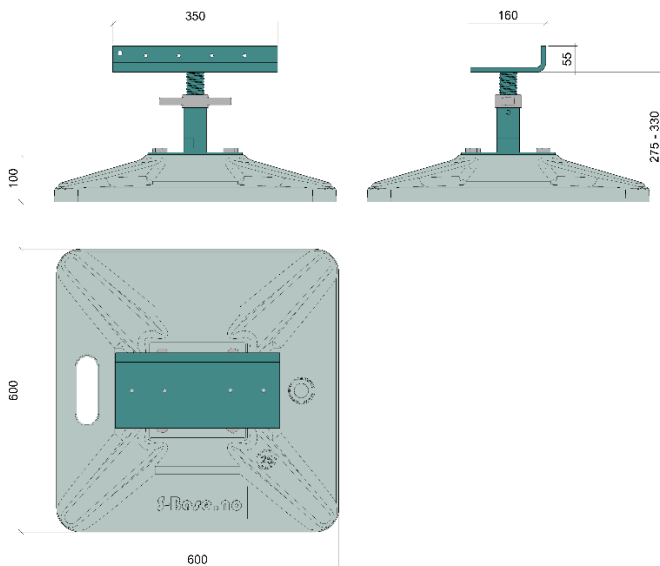


Fig. 1
Dimensions of S-Base foundation

5. Environmental aspects

Substances hazardous to health and environment

The product contains no hazardous substances with priority in quantities that pose any increased risk for human health and environment. Chemicals with priority include CMR, PBT or vPvB substances.

Waste treatment/recycling

The product shall be sorted as residual waste. The product shall be delivered to an authorized waste treatment plant for energy recovery.

6. Conditions of use

Design considerations

The design loads (E_d) acting on the foundations shall be calculated based on eurocodes and relevant national annex considering the actual construction on top and building site. The loads on each foundation shall be within the requirements given in chapter 4.

S-Base shall be placed in a pattern so that the axial loading is approximately the same on all of the foundations except for the foundations in the outermost corners of the building. This is to make sure that any overloading of the foundations can be visually monitored on the outer most foundations.

The load bearing capacity of the ground shall be verified for the design loads (E_d) acting on the foundation. The case of both the maximum axial load and the combination of axial and horizontal load shall be considered. The combination of axial and horizontal loads on the foundation may induce larger forces on the ground than the maximum axial loads alone.

S-Base does not have any uplift capacity. The construction must therefore be checked for stability with respect to uplift and overturning and if any anchoring is necessary.

Safety in case of fire

The use of S-Base shall in each case be evaluated with respect to safety in case of fire according to regulations on technical requirements for construction works (TEK 17) section 11-4 taking into consideration the structure on the foundations and its intended use.

The load-bearing fire resistance (R) has not been determined for S-Base as part of this approval.

Installation

S-Base foundations shall be placed on a horizontal and levelled surface so that the vertical loads go through the centre of the foundation.

Marking of the position of the wing nut shall be made after it is adjusted to correct height to be able to monitor any movement of the wing nut.

Maintenance

While in use S-Base foundations shall be monitored routinely for any movements or deformation or degradation of the PVC base or steel components. The connection between the wooden structure and the foundation shall also be monitored routinely. The monitoring shall be documented, and any movement, deformation or degradation of the foundations shall be reported to Solidum EST.

Transport and storage

Before storage the S-base foundations shall be cleaned and inspected for any degradation. Components with any degradation shall be submitted for checks by Solidum EST.

The foundations shall be placed in storage so that no components are susceptible to loads that may deform the product. They shall be stored in a dry location not exposed to direct sunlight.

7. Product and factory production control

S-Base is produced by Schake GmbH, Volmarsteiner Strasse 48, 58089 Hagen, Germany.

The holder of the approval is responsible for the factory production control in order to ensure that S-Base is produced in accordance with the preconditions applying to this approval.

The manufacturing of the products and the manufacturer's system for factory production control (FPC) is subject to continuous surveillance in accordance with the contract regarding SINTEF Technical Approval.

8. Basis for the approval

The product's characteristics are documented in reports issued by independent bodies. The technical documentation serves as the basis for SINTEF's product assessment with respect to EN standards, the guidelines for SINTEF Technical Approval, and recommendations as outlined in SINTEF Building Research Design Guides.

9. Marking

S-Base foundations are marked with S-Base, component number and production time.

The approval mark for SINTEF Technical Approval TG 20896 may also be used.

10. Liability

Solidum has sole product liability according to **current** law. Claims can only be made against SINTEF under general law or other special grounds.

for SINTEF



Ola Asphaug
Approval Manager