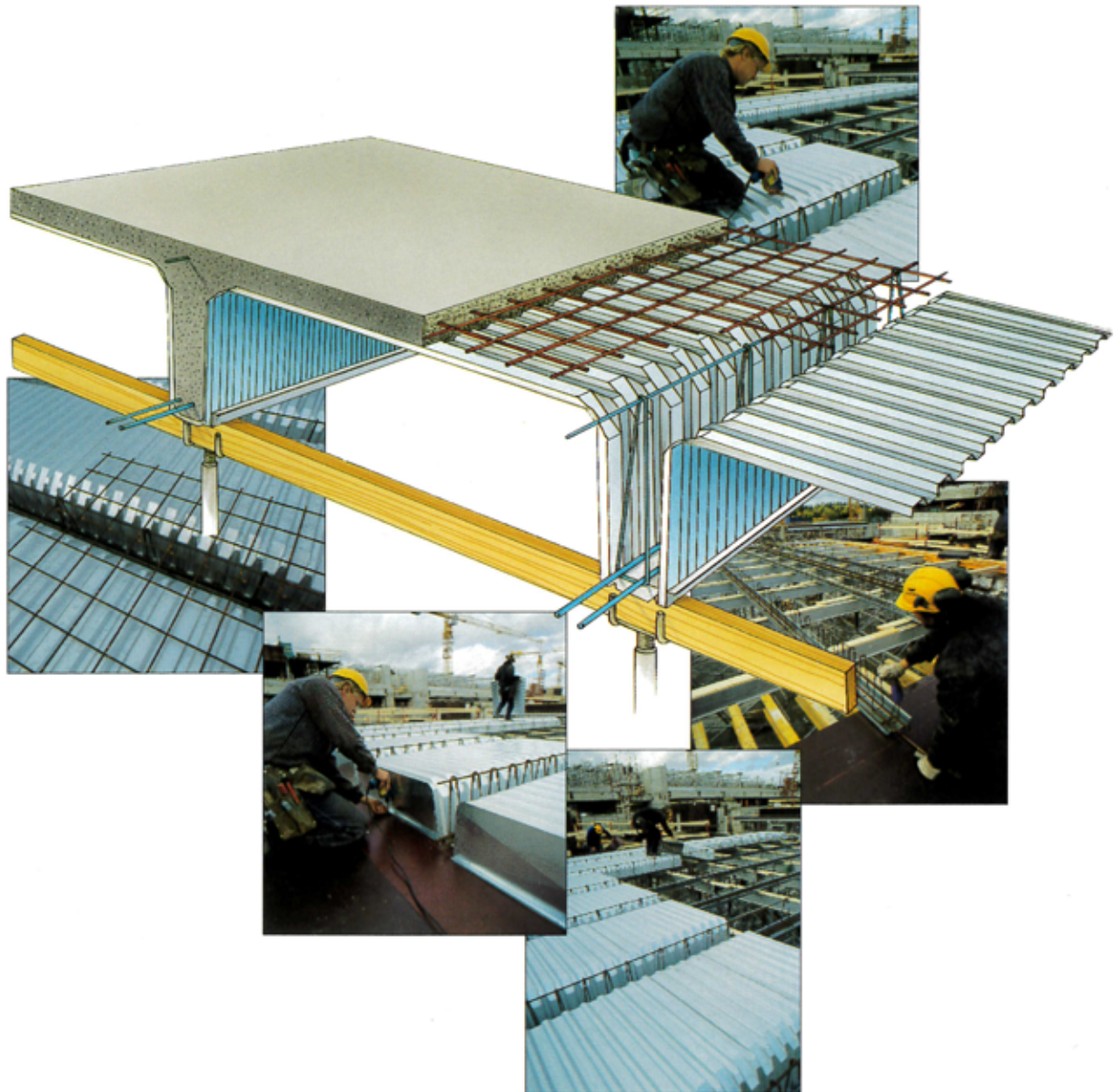


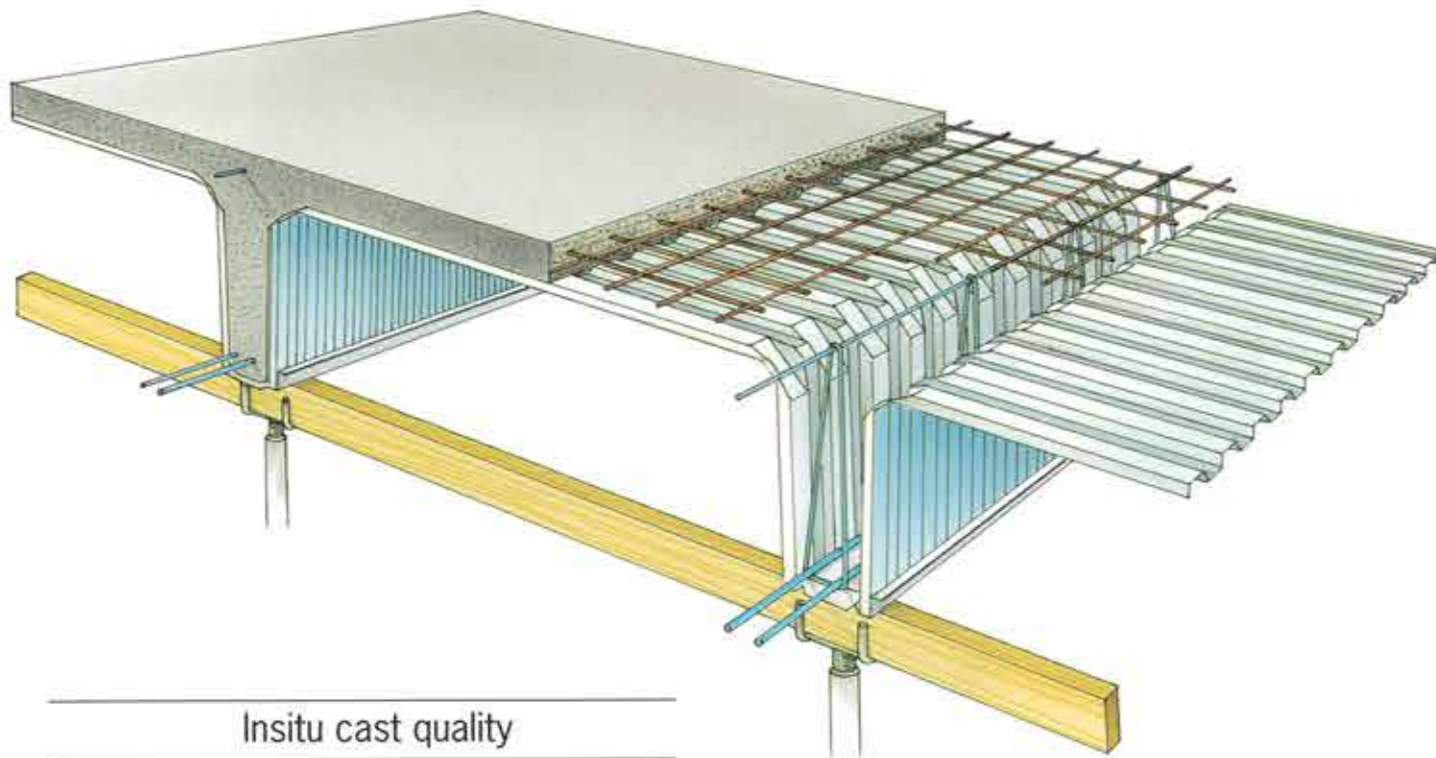
# Swedeck

COMBINED SHUTTERING AND REINFORCEMENT SYSTEM



# SweDeck shuttering and reinforcement system for insitu concrete flooring

*SweDeck is one of the most economical flooring systems available, providing free spans up to 18 meters. It is simple to adjust to a variety of floor layouts and results in a light weight construction. These product advantages have been utilised in a variety of buildings such as hospitals, supermarkets, offices, banks, industrial and car parks.*



## Insitu cast quality

The SweDeck system provides the high quality of insitu concrete combined with flexibility.

The construction depth is minimised by the integration of the primary beams within the system SweDeck offers high fire resistance.

The sound insulation is better than other conventional systems with comparable weight.

## Flexibility in design reduces construction time

On a project with SweDeck, design and construction can follow closely. This results in the time between design and construction being equal to precast con-

crete and amendments to detailing can be accomplished late in the building programme.

## Optimised economy for long spans

Cost comparisons between different concrete flooring systems shows that SweDeck is most economical for long spans up to a maximum of 18 meters.

## Simplified installations

Installations for services are easily located in the troughs and it is simple to make penetrations for ducting and electricity supply.

This provides flexibility for future change of use.



## Permanent lining or ceiling

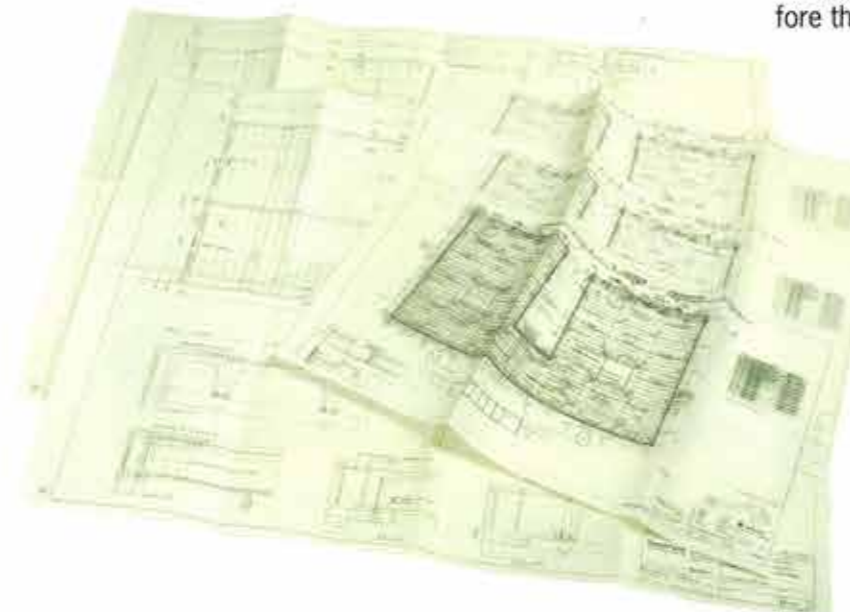
The shuttering is frequently used as finished lining. Ceilings for sound insulation purposes can be added if required.



## Limited construction time?

If the construction schedule is limited it is valuable to have as much time as possible available for planning and construction.

SweDeck shuttering allows you to start building before the design is finalised.



# Installation of Swedeck is both fast and simple

The installation is simple and the components are easy to handle. The progressive installation of the shuttering will form a safe working platform for work to proceed. The installation time for the complete system, including installation and dismantling of temporary propping, is 0.2 - 0.3 man hours/m<sup>2</sup>.

**1** The installation starts with installation of temporary proppings (towers for high levels) to support the permanent shuttering and formwork for primary floor beams.



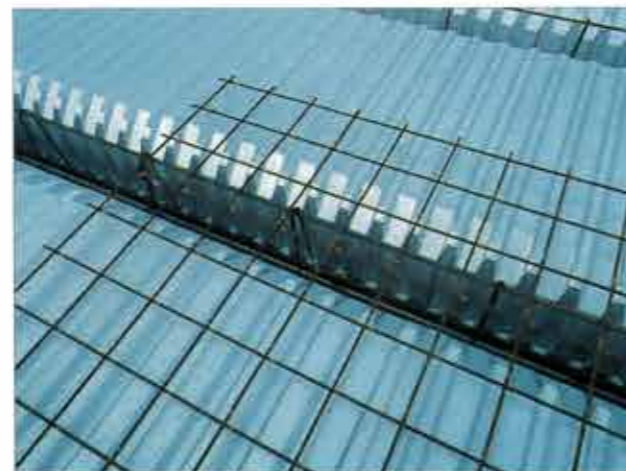
**2** Reinforcement beams are laid out to the predetermined spacing and then fixed.



**3** The shuttering is laid out and sits into the groove of the bottom tray. One corrugation overlap between the shuttering provides a good seal against leakage.



**4** End cover plates are installed to each end of the flooring.

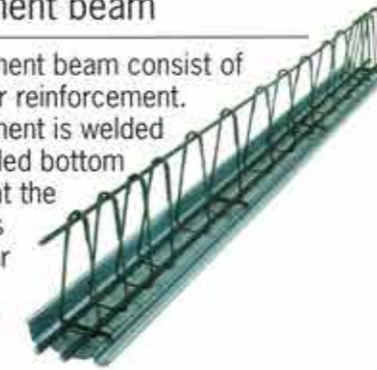


**5** The reinforcement mesh is laid out. The reinforcement beams automatically support the floor mesh in the center of the floor slab. For continuous slab design additional reinforcement is provided over primary support beam.

# These components are included in the Swedeck system

## Reinforcement beam

The reinforcement beam consists of bars and shear reinforcement. The reinforcement is welded to a rigid profiled bottom tray. The bar at the top also works as a spacer for the floor slab mesh. Bottom tray without reinforcement can be supplied on request.



## Shuttering

The shuttering is precranked by a patented method which provides extreme rigidity. The cover length is 1000 mm and the finish is galvanized.



## End cover Plate

The end cover plate forms a mould side for the primary beams and is prestiffened to resist pressure from concrete.



## Technical data.

**Design:** In accordance with building regulations.

Spans: 7-18 meters.

Depth: 150-700 mm.

Width: 600-1500 mm. Standard: 1200 mm.

Cover length: 1000 mm.

Propping: 1200 mm ctrs maximum.

### Material:

Shuttering: Galvanized steel.

End cover plate: Galvanized steel.

Bottom tray: Galvanized steel.

Reinforcement: Standard.

Fire resistance: Standard = A60, A90 and A120 can be achieved depending on detailing.

Acoustics: Sound insulation is better than other conventional systems with comparable weight.

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