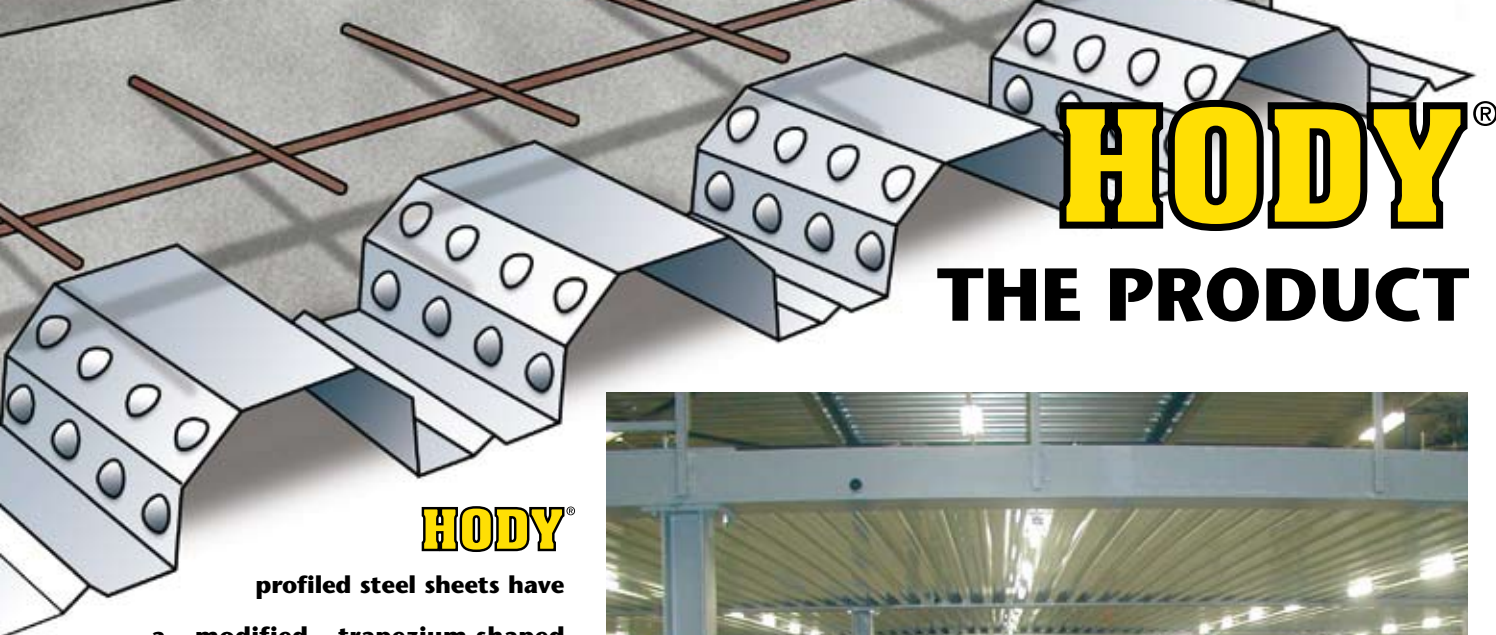


# HODY®

## THE PRODUCT



### HODY®

profiled steel sheets have a modified trapezium-shaped profile. The profile height is 60 mm. The sheets are intended for the production of so-called "low" steel-concrete composite floors. The height of the finished concrete floor is between 110 and 290 mm. The free span of the supporting structure may be 8 metres or more.

#### The system

A HODY® steel-concrete composite floor consists of a unique trapezium profiled steel sheet, which functions as permanent formwork and reinforcement, additional reinforcement (as detailed in the following illustration) and a minimum layer of C20/25 quality concrete.



The complete system

The result is an extremely strong, fire-resistant, sound insulating, relatively thin lightweight composite concrete floor that provides a simple to install cost effective solution.

During the curing period, HODY® sheets constitute the formwork supporting the weight of the concrete and allow the transfer of weight from the assembly load to the supporting structure. After the curing period the HODY® sheets,



entresol floor

usually with an additional layer of mesh reinforcement within the concrete produce an integral, robust composite floor.

#### Floor construction systems

- HODY® on steel beams
- HODY® between steel beams
- Unsupported span
- Sound-insulating floor structure
- IFD floor structure
- Wood-concrete composite floors
- Permanently visible constructions\*

\*HODY® sheeting can be provided at the bottom with a polyester or PVDF coating in RAL colour. Colour options depend on availability.

#### Features

- Minimum thickness of finished concrete floor 110 mm
- Relatively low own weight (> 2.10 kN/m<sup>2</sup>)
- Span from 2 to 8 m.
- High permissible load  $P_{rep}$
- High bearing capacity in case of point load  $F_{rep}$
- Flexible system construction
- Unsupported assembly to max. 2 m.
- Simple and quick assembly
- Available from stock
- Low transportation costs compared to prefabricated concrete
- Simple logistics at the site



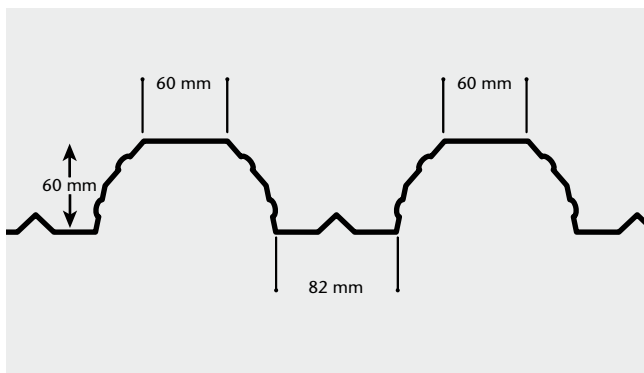
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### Applications

- New build structures
- Renovation
- IFD Projects
- Ground and higher level floors
- Raised floors
- Mezzanine floors
- Walkways
- Cantilever floors and balconies
- Composite steel-concrete floors
- Composite wood-concrete floors
- Unit building
- Bridges and overpasses
- Permanent formwork

### Technical Details

A detailed technical manual is available providing extensive instructions for the installation of HODY® sheets and the fitting of accessories, such as the profiled infill section in PE or rockwool, galvanised steel edges and/or end profiles, HODY® mesh reinforcements for increased fire-resistance, upper reinforcement or contraction netting, concrete thickness and quality to be applied.



The HODY® trapezium profile has a modified geometry, which allows for optimal pouring load and makes sure the cooperation between the HODY® profiled steel sheeting and the concrete allows for the highest possible load bearing capacity of the concrete floor.

### Technical data HODY® sheets

|                         |   |                                       |
|-------------------------|---|---------------------------------------|
| Nominal width           | : | 1086 mm                               |
| Cover                   | : | 1010 mm                               |
| Trade lengths           | : | 5000, 7400 and 11000 mm               |
| Dimensional             | : | continuously variable up to 12000 mm* |
| Length range            | : | -5/+ 20 mm                            |
| Width tolerance         | : | -6/+ 6 mm                             |
| Nominal steel thickness | : | 0,75 mm**                             |
| Design thickness        | : | 0,71 mm                               |
| Profile height          | : | 60 mm                                 |
| Profile width           | : | 60/82 mm                              |
| Weight                  | : | 0,0874 kN/m <sup>2</sup>              |

\* Lengths > 12 metres available on request.

\*\* Steel thicknesses 0.88 and 1.00 mm also available, if required.

Minimum concrete floor thickness 110 mm, depending on the load calculation. C20/25 concrete quality.

**Steel quality:** S320 GD + Z275 N-A-C in accordance with NEN-EN 10147  
HODY® is a registered trade mark of REPEL b.v. Dordrecht The Netherlands.



*Flexibility in details*

### Reports

HODY® low steel-concrete composite floors are extensively tested by TNO-Building and Construction Research in Delft, Netherlands.

Further calculations, design principles and tables were elaborated by the Dutch Ingenieursburo Bartels b.v. Everything was based on Eurocode 4.

### Calculations

If required we can make the calculations and, if applicable, draw the plans which need to be approved by the competent authorities before the works can be started.

### Service and advice

Should you have any questions please contact your supplier or our technical advisors. They will be able to advise you on the applicability and applications of HODY® steel-concrete composite floors.

### Specifications service

Specification clauses of the HODY® composite metal floor decking are available in the NBS Plus.

CDI

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