



# DBP HOUSING PRODUCT INFORMATION



VARIABLE AND SUSTAINABLE EMERGENCY ACCOMODATION



## by **INNODEEN**

At Innodeen shared solutions, we like to work with you on smart solutions. We actively contribute to achieving the desired result. For this, we offer sustainable solutions and good quality products, accurate and to size.

Whether you want a tough or elastic product, wear-resistant or transparent: we provide the best solution for every request. Made of

HOLLODEEN®, DURODEEN®, COMPODEEN® or EELODEEN®.

Where other materials fail, our innovative power comes to life.

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# WHY DBP HOUSING

The DBP HOUSING system stands out for its simplicity in structure and versatility in terms of capabilities and applications. This makes the system ideal for emergency housing in disaster areas, such as shelters for refugees, emergency hospitals and other basic services. This system is also used as a building extension for existing homes or for sheds or outbuildings. Thanks to its modular design, DBP HOUSING gives you complete design freedom.



## COMPODEEN

DBP HOUSING wall profiles are made of Composeen, a composite based on natural fibres. Compounded and perfected by Innodéen. This sustainable, 100% recyclable material comes into its own in places where other materials fail due to ageing, rotting or wear. Which makes it ideal for the use in construction, civil engineering and infrastructure.



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# THE **DBP HOUSING** SYSTEM

*The DBP HOUSING system offers a wide range of innovative, modular solutions for the realisation of (emergency) housing, offices and non-residential buildings.*

The system is characterised by the nearly infinite flexibility in design, form, layout and dimensions. There is a wide choice of doors, windows, roof panels, flooring, finishes and accessories. The type of construction is based on the Swedish log cabin building method of interlocking wall profiles for a very strong connection. The hollow wall sections ensure good insulation, and the chambers in the profiles also allows you to properly conceal cables and piping.



**DESIGN AND FREEDOM**

During the design phase, clients have complete freedom to indicate and discuss requirements and wishes. We also look together at the application and location so that we can check it against local building requirements and regulations.

**COMPLIES WITH LOCAL BUILDING REGULATIONS**

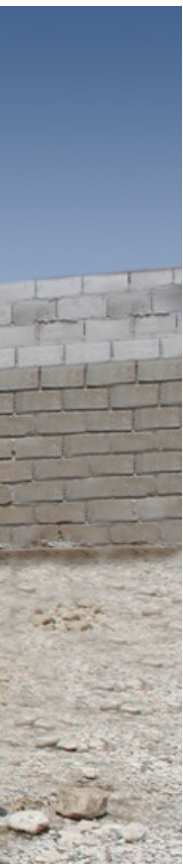
Once the final DBP HOUSING design is ready, it complies fully with the local building regulations. Structural calculations (strength calculations) are also added, which can be transferred to local authorities.

**NO BUILDING KNOWLEDGE REQUIRED**

The units are very easy to assemble. This requires no specific building knowledge or specialist tools. All building components are clearly marked and supplied prefabricated. No need to customise anything on site.

The wall profiles are easily stacked and provided with a prefabricated interlocking system at the corners for immediate stability. No screws or adhesives required. The trusses, roof panels and cover profiles are fixed by means of nuts, bolts and screws. Due to the simple, modular assembly, the building is just as easy to disassemble, adapt, expand or move.

The system is accompanied by instructions with clear drawings which guide you through the assembly step-by-step from start to finish.



# THE CONSTRUCTION

All kit components (floor, walls, roof, windows, doors and accessories) are delivered completely pre-fabricated and provided with all the recesses, holes, slots et cetera, which are required for the assembly. All components are marked. The kit comes with step-by-step assembly instructions with clear illustrations. All DBP HOUSING packages are subjected to a thorough quality control. This guarantees an appropriate and complete delivery. If required, we also provide on-site technical support.

## WALLS

The outside and inside walls are made up of interlocking, stackable, hollow wall sections, finished with H and U profiles. The hollow wall is ideal for concealing cables and piping. You can arrange the inside walls as required, even after installation.

## FLOORS

The DBP HOUSING system is primarily designed for assembly on standard modular steel flooring panels. The flooring panels are finished with sheet material and can, if desired, be provided with insulation. The floor modules are placed directly on the prepared surface. You can also implement the DBP HOUSING system without a floor when use is made of a concrete foundation.

## WINDOWS AND DOORS

There is a wide choice of pre-glazed single or double glazed windows and doors with or without mosquito nets, blackouts, roller shutters or other accessories. The windows and doors are very easy to fit into the ready-made recesses in the wall. This gives you complete freedom in your choice of implementation, size and material.





### ROOF FINISHES

The roof rests on trusses and purlins, which are supported by steel posts at the module lines. All steel fittings are galvanized and equipped with mounting holes with associated fastening materials for quick and simple assembly. The design takes the local regulations into account for wind and snow loads. The roof can be insulated depending on the climate and is provided with gutters if required. There is a wide choice of various types of roof panels and colours.



### CONSTRUCTIONAL PERFORMANCE

The units are designed to fully meet the needs of the customer in compliance with local regulations. Once the design is finalised, a technical data sheet is drawn up, complete with all the necessary structural calculations. These documents must be submitted for inspection and verification to the local building inspectorate.





### AESTHETICS

Standard Compodeen has a light brown colour, like the colour of untreated softwood. Optionally, it is possible to choose light grey coloured profiles.



### SPECIAL FINISHES

For sterile applications, such as treatment and operating rooms or technical areas, it is possible to opt for a special PVC wall, ceiling and floor finish.



**MAINTENANCE**

Maintenance is limited to an absolute minimum. The Compodeen components do not require a protective coating. If it is desirable from an aesthetic standpoint, it is possible to paint the components. Compodeen profiles meet Durability Class 1 - 2. Similar to Azobé tropical hardwood.



**COMPO  
DEEN®**

# COMPODEEN WFC

## WOOD FIBRE COMPOSITE



permanent  
**CO<sub>2</sub>**  
storage

The IPCC - Intergovernmental Panel on Climate Change - states that permanent CO<sub>2</sub> storage exists if a material stores CO<sub>2</sub> for more than 100 years.



**COMPODEEN** is a durable and environmentally friendly biobased composite composed of natural fibres and polymers. The patented method of compaction, in which the fibres are positioned length-wise, creates a unique, stable and weather-resistant product. This sets CompoDeen apart from all other polymer compounds.

### NATURAL BASIC MATERIAL

The natural base of CompoDeen consists of wood for now. In time, this will be expanded to include other natural raw materials preferably from third-party waste streams.

**Geupcycled  
uit 100%  
restafval**





## ECOLOGICAL WOOD FIBRE,

Wood fibre, the main component of Compodeen, comes from unpainted scrap wood, end-of-life pallets and PEFC-certified waste streams, among others. The binding agent Polypropylene (PP) comes from the PMD residual waste you and I present to the waste processor. PP is easy to recycle and is therefore one of the most environmentally-friendly thermoplastics available. No toxic or harmful substances are added during the extrusion process. Compodeen start-up material is shredded and then forms new base material for Compodeen without compromising on quality. This naturally also applies to applied Compodeen. The material is thus fully circularly applicable and thus has a permanent CO<sub>2</sub> storage.



## THE BENEFITS OF COMPODEEN:

- Biobased
- Upcycled from 100% residual waste
- Sustainable
- For in- and outdoor use, without treatment
- Easy to process
- 100% recyclable / 100% circular
- Permanent CO<sub>2</sub> storage
- Shape- and wear-resistant
- Weather-resistant
- Free of harmful additives
- Antistatic
- Natural greying

## COMPODEEN

Is the material from which housing profiles are made. Compodeen has the same natural look as wood with the advantages of plastic and requires no treatment.





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