

C90 PRODUCTFACT



FACTS ABOUT THE C90 MODULAR SYSTEM

The C90 system meets high international standards. It is characterised by modern design in which function, working environment and energy consumption have been the guiding principles of development work. Another goal has been versatility; C90 suits schools and daycare as well as it does offices.



Welcome to the new C90



GENERAL INFORMATION

→ Module types A, A1, B, I, K, S and WC1 have external dimensions 9600 (l) x 2960 (w) x 3470(h) mm.

→ Module type IG has external dimensions 9600 (l) x 3050 (w) x 3470(h) mm.

→ Module type C has external dimensions 10700 (l) x 3035 (w) x 3470 (h) mm

→ Module type J has external dimensions 9600 (l) x 3950 (w) x 3470 (h) mm

→ Stairwells T1, T2 and T3 have external dimensions 4700 (l) x 2950 (w) mm floor-to-ceiling height T1 and T2 2820 mm, T3 2400 mm.

→ Lowest interior floor-to-ceiling height for modules A, A1, B, I, K, S and IG is 2 700 mm. C module lowest interior floor-to-ceiling height, see room specifications

→ Weight varies between 6 tonnes for the small modules and approx. 11 tonnes for the technology modules.

BUILDING CONSTRUCTION

The static calculations and fire safety design (REI 60) of the C90 modular system allow for buildings up to three storeys high.

LOAD BEARING SYSTEM

Foundation

Timber foundation or Leca stone on concrete slab with 3-storey construction.

Roof construction

Designed for snow zone III

Fire class REI 60

U value: 0.12

Wall construction:

Fire class REI 60

U value: 0.15

Façade

Fibre cement façade sheets

Floor framework

Fire class REI 30

U value = 0.15

Permitted load 2.5 kN/m²

WINDOWS

Fixed and opening windows. All windows have sun-protection glass, which limits inward heat radiation and creates a more even and comfortable interior climate. Exterior blinds are also available as an option to reduce heat even more.

U value: 0.78

EXTERIOR DOORS

Aluminium doors 15-21, double doors

U value: 1.5

INTERIOR DOORS

Solid doors EI30 35db with pinch protection and rubber seals behind.

DOOR FRAMES

Door frames in contrast colours

STAIRS IN STAIRWELL

Steel stairs with stainless steel handrail.

First and last step in contrast colours.

Handrails according to handicap standards.



COLOURS

Ceiling: NCS 0502Y

Walls: Glassfibre weave G100 NCS 0500-N

FLOOR COVERINGS

Rooms: 2.0 mm linoleum, grey. Class Cfl-s1

WC: 2.0 mm homogeneous plastic matting, grey

HWC: 2.0 mm homogeneous non-slip plastic matting, grey

SOUND ABSORPTION

Acoustic ceilings are fitted throughout to minimise reverberation time and create a good working environment.

HEATING

The building is heated by direct electricity. Central, wireless heating control with a night-reduction function is available as an option.

As an alternative, a water-based radiator system is available with heat source in the form of a heat pump or district heating.

LIGHTING

All lighting fixtures are fitted directly against the ceiling and are equipped with motion sensors and pull switches.

VENTILATION

The modules are ventilated with a ventilation unit located in the technical/WC module.

The ventilation units have energy-saving fan motors for ventilation and extraction, efficient air filters, rotating heat exchangers for heat recovery, integral cooling functions and electrical or water-based post-heating units

ELECTRICITY

Central distribution box max 180A for connection to technical modules up to three storeys and elevator, located at rear of technical module. Each technical module has an integral distribution box, max 63A. The module contains energy meters for heating and ventilation, earth fault breakers and automatic fuses.

The kitchen/changing room module (S module) has an integral 16A distribution box. Electricity is distributed to adjacent modules and the S module via channelling in the angle between ceiling and wall. Wago type rapid coupling. Electrical sockets in outer walls. Socket pillars are available as an accessory.

TOILETS

The technical module can be supplied with 2-4 toilets, depending on the nature and needs of the organisation. The handicap WC meets requirements for access for persons in electric wheelchairs with limited outdoor use.

MODULE TYPES



ABOUT THE INTERIOR CLIMATE AND ENERGY EFFICIENCY

A good interior climate is very important and improving the indoor environment can increase productivity by 5-15 per cent for adults and by over 15 per cent for school pupils. C90 has mixed ventilation with ceiling-mounted devices for the best airflow distribution. The ventilation units have very high heat recovery and energy-efficient fans with a low noise level. The unit has a deep-pleated filter for high-quality air filtration. Integral cooling in the air conditioning system is available as an option for extra comfort. Cooling is very energy-efficient and operating costs are low.