

RAMIRENT MODULAR FACTORY PRODUCT FAMILIES OVERVIEW






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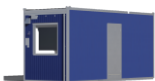


1. General

Ramirent offers a substantial fleet of wooden modules available for purchase or rent. Produced in Estonia by Ramirent Modular Factory (from here on out „RMF“), these wooden modules excel in harsh Nordic weather, with multiple product families tailored to meet specific regional needs.

RMF’s product families differ in dimensions, insulation values, indoor climate quality, load-bearing capacity, and appearance. Each family features a variety of standard models, and most modules can be easily connected to create multi-storey buildings for various purposes, such as commercial spaces, service facilities, accommodations, schools & kindergartens, etc. If our standard options don’t meet your requirements, we can customize designs to fit your needs and create the perfect modules just for you.

2. A Brief Overview of our Product Families

Product Family	Picture	Description
Standard (ENV-C)		RMF energy label C modules with external dimensions of 8,5 x 3,0 x 3,0 m (Length x Width x Height). Primarily used in the Baltics to create all kinds of cost-effective commercial and infrastructure buildings.
Comfort (SHA)		RMF energy label A modules with external dimensions of 8,5 x 3,0 x 3,0 m. Primarily used in Sweden to create all kinds of commercial and infrastructure buildings.
Premium (SHAA)		RMF energy label A+ modules with external dimensions of 8,5 x 3,0 x 3,0 m. These modules are used in Sweden, Norway, Finland, and the Baltics, making it the most universal family in RMF. Some models are specifically designed for accommodation and have structures with higher fire ratings.
Deluxe (TEK17)		RMF energy label A+ modules with external dimensions of 8,5 x 3,0 x 3,3 m. All modules in this family are designed to meet Norway’s Building technical regulations (TEK17), making them ideal for Nordic projects with higher demands for quality .
Wide (FFA)		RMF energy label A modules with external dimensions of 7,2 x 3,4 x 3,0 m. Primarily used in Finland. With wider modules , it is often more efficient to create rooms demanding open space, i.e., locker rooms, kitchens, etc.

Compact (FEA)		RMF energy label A modules with external dimensions of 6,0 x 2,4 x 3,0 m (or 3,0 x 3,0 x 3,0 in certain cases). The modules in this family are ideal for small spaces and help to cut down on transportation costs. They are often used as stand-alone modules to fill specific functions, i.e., events, ticket kiosks, security guard rooms, etc.
K-TYPE		RMF energy label A++ modules with external dimensions of 9,6 x 3,0 x 3,4 m. The modules in this product family are used to assemble school buildings, kindergartens, nurseries, youth centers, etc. These modules are designed to meet the latest requirements for energy efficiency, air climate, and fire safety.
Low-Energy Module (LEM)		RMF energy label A+++ modules with external dimensions of 9,6 x 3,5 x 3,4 m. The modules in this product family have been developed to meet Denmark's building requirements (BR18). This product family stands out by having very fire-resistant structures with great thermal and sound isolation values , enabling the erection of energy-efficient and long-lasting buildings.

3. Dimensions & Insulation values by Product Family

Attribute	ENV-C	SHA	SHAA	TEK17	FFA	FEA	K-TYPE	LEM
RMF Energy Label	C	A	A+	A+	A	A	A++	A+++
U-value, W/m²K, external wall	0,35	0,29	0,22	0,22	0,26	0,26	0,16	0,15 / 0,18
U-value, W/m²K, roof	0,26	0,24	0,18	0,18	0,21	0,21	0,15	0,14
U-value, W/m²K, floor	0,26	0,26	0,18	0,18	0,26	0,26	0,18	0,12
U-value, W/m²K, window	1,3	1,0	1,0	1,0	1,3	1,3	1,0	0,89
U-value, W/m²K, ext.door	1,6	1,6	1,6	1,1	1,6	1,6	1,0	0,84
Length, m (external)	8,5	8,5	8,5	8,5	7,2	6,0	9,6	9,6
Width, m (external)	3,0	3,0	3,0	3,0	3,4	2,4	2,9	3,5
Height, m (external)	3,0	3,0	3,0	3,3	3,0	3,0	3,4	3,4
Length, m (internal)	8,1	8,1	8,1	8,1	6,9	5,6	9,1	8,9
Width, m (internal)	2,6	2,5	2,5	2,5	3,1	2,1	2,6	3,2
Height, m (internal)	2,4	2,4	2,4	2,7	2,4	2,4	2,7	2,7
Weight, Tonnes (starting from)	3,5	3,8	4,0	4,5	3,5	3,0	5,0	9,5

4. Storey count, fire ratings & maximum loads by Product Family

Attribute	ENV-C	SHA	SHAA	TEK17	FFA	FEA	K-TYPE	LEM
Fire Rating *1, external wall.	REI15	REI30	REI30	REI30	REI30	REI30	REI30	REI60
Fire Rating *1, roof	REI30	REI30	REI30	REI30	REI30	REI30	REI30	REI60
Fire Rating *1, floor	REI15	REI30	REI30	REI30	REI30	REI30	REI30	REI60
Dead load *2, kN/m ² (floor)	2,6	2,6	2,6	2,6	2,0	2,6	3,0	2,0
Snow load *3, kN/m ² (roof)	2,75	3,6	3,6	6,5	3,5	3,6	2,75	1,00

The maximum storey count depends on the exact geographical location and national building regulations. In some cases, Ramirent Modular Factory will allow the assembly of its modules in up to three storeys. Contact Ramirent Modular Factory directly for more information.

1) The listed REI values are the minimum values in case of a two-storey building in most Nordic locations. The actual value depends on the exact geographical location and the number of storeys. Ramirent Modular Factory is capable of producing structures with higher REI values for projects with higher demands (e.g. accommodation buildings, staircases, etc.).

2) The listed snow loads are derived from the building function and region where product family is typically used. RMF can provide modules with floors designed for higher-load requirements.

3) The listed dead loads correspond to the climatic conditions of the region where the product family is typically used. RMF can provide modules with structures engineered to withstand higher snow loads.

5. Functionality & Features

- ✓ Included
- ✓ Optional

Feature	ENV-C	SHA	SHAA	TEK17	FFA	FEA	K-TYPE	LEM
Steel Base Frame	✓	✓	✓	✓	✓	✓	✓	✓
Liftable via Forklift	✓	✓	✓	✓	✓	✓	✓	✓
Liftable via Crane	✓	✓	✓	✓	✓	✓	✓	✓
Window Steel Bars	✓	✓	✓	✓	✓	✓	✓	✓
Window Sun Protection Glazing	✓	✓	✓	✓	✓	✓	✓	✓
Electrical connection CEE 432-6, 32A, 230V	✓	✓	✓	✓	✓	✓	✓	✓
Electrical connection CEE 432-6, 32A, 400V	✓	✓	✓	✓	✓	✓	✓	✓
Energy Saving Options	✓	✓	✓	✓	✓	✓	✓	✓
LED lighting	✓	✓	✓	✓	✓	✓	✓	✓
Motion sensor	✓	✓	✓	✓	✓	✓	✓	✓
Electric Heating	✓	✓	✓	✓	✓	✓	✓	✓
Air-to-Water Heat Pump	✓	✓	✓	✓	✓	✓	✓	✓
Air-to-Air Heat Pump / AC	✓	✓	✓	✓	✓	✓	✓	✓
Floor Heating	✓	✓	✓	✓	✓	✓	✓	✓
Ventilation heat recovery	✓	✓	✓	✓	✓	✓	✓	✓
CO ² sensor	✓	✓	✓	✓	✓	✓	✓	✓
Ethernet Wall Sockets	✓	✓	✓	✓	✓	✓	✓	✓
Concealed cabling	✓	✓	✓	✓	✓	✓	✓	✓
Concealed sewage pipes	✓	✓	✓	✓	✓	✓	✓	✓
Hot water	✓	✓	✓	✓	✓	✓	✓	✓

6. Interior Design Options

- ✓ Standard solution
- ✓ Optional solution

Feature	ENV-C	SHA	SHAA	TEK17	FFA	FEA	K-TYPE	LEM
Wall & Ceiling Finish – Laminated chipboard panels (D-s2,d0)	✓	✓	✓	✓	✓	✓	✓	✓
Wall & Ceiling Finish – MDF panels painted with fire retardant (B-s1,d0)	✓	✓	✓	✓	✓	✓	✓	✓
Wall & Ceiling Finish – Painted gypsum boards (A2-s1,d0)	✓	✓	✓	✓	✓	✓	✓	✓
Floor Finish – PVC flooring (usage class 34/43, slip resistance R9)	✓	✓	✓	✓	✓	✓	✓	✓
Floor Finish – PVC flooring (usage class 34/43, slip resistance R10, Bfl-s1)	✓	✓	✓	✓	✓	✓	✓	✓
Floor Finish – LVT flooring (usage class 34/43, slip resistance DS, Bfl-s1)	✓	✓	✓	✓	✓	✓	✓	✓
Floor Finish – Hardwood flooring (usage class 23/33, Cfl-s1)	✓	✓	✓	✓	✓	✓	✓	✓

The listed materials are RMF's standard solutions for modular buildings, but alternative finishes can be used based on client requirements. Contact us to discover additional finish options and available colors or textures.

7. Exterior Design Options

- ✓ Standard solution
- ✓ Optional solution

Feature	ENV-C	SHA	SHAA	TEK17	FFA	FEA	K-TYPE	LEM
Façade Finish – Painted vertical wooden siding * ¹	✓	✓	✓	✓	✓	✓	✓	✓
Façade Finish – Painted horizontal wooden siding * ¹	✓	✓	✓	✓	✓	✓	✓	✓
Façade Finish – Painted facade panels ¹ (fiber cement / composite)	✓	✓	✓	✓	✓	✓	✓	✓
Roof finish – SBS bitumen roofing	✓	✓	✓	✓	✓	✓	✓	✓
Roof finish – PVC roofing membrane	✓	✓	✓	✓	✓	✓	✓	✓
Windows – White PVC frame * ²	✓	✓	✓	✓	✓	✓	✓	✓
Windows – White wooden frame * ²	✓	✓	✓	✓	✓	✓	✓	✓
External doors – Hot-dip galvanized or painted steel doors	✓	✓	✓	✓	✓	✓	✓	✓
External doors – Painted wooden doors	✓	✓	✓	✓	✓	✓	✓	✓
Rainwater system – Visible hot-dip galvanized or painted steel gutter & downpipe	✓	✓	✓	✓	✓	✓	✓	✓
Rainwater system – Concealed rainwater system	✓	✓	✓	✓	✓	✓	✓	✓

- 1) The façade color may be selected according to the client's preference.
- 2) Custom paint finishes can be provided upon request for an additional fee.