

# RAMIRENT MODULAR FACTORY PRODUCT FAMILIES OVERVIEW

11.02.2026

## 1. General

Ramirent offers a substantial fleet of wooden modules available for purchase or rent. Produced in Estonia by Ramirent Modular Factory, 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	Description
<b>ENV-C</b>	RMF environmental class 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 temporary commercial and infrastructure buildings.
<b>SHA</b>	RMF environmental class A modules with external dimensions of 8.5 x 3.0 x 3.0 m. Primarily used in Sweden to create all kinds of temporary commercial and infrastructure buildings.
<b>SHAA</b>	RMF environmental class 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.
<b>TEK17</b>	RMF environmental class 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.
<b>WIDE</b>	RMF environmental class A modules with external dimensions of 8.5 x 3.0 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.
<b>FEA</b>	RMF environmental class A modules with external dimensions of 6,0 x 2.4 x 3.0 m. 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.
<b>K-TYPE</b>	The modules in this product family are used to assemble temporary school buildings, kindergartens, nurseries, youth centers, etc. These modules are designed to meet the latest requirements for energy efficiency, air climate, and fire safety.
<b>LEM</b>	Energy-efficient 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	WIDE	FEA	K-TYPE	LEM
Length, mm (external)	8474	8474	8474	8508	7226	5974	9636	9562
Width, mm (external)	2924	2924	2924	2952	3442	2396	2888	3510
Height, mm (external)	3000	3000	3000	3316	3000	3000	3395	3400
Length, mm (internal)	8134	8084	8084	8080	6886	5634	9060	8908
Width, mm (internal)	2584	2534	2534	2524	3102	2056	2636	3164
Height, mm (internal)	2400	2400	2400	2700	2400	2400	2700	2700
Weight, kg (starting from)	3500	3800	4000	4500	3500	3000	5000	9500
U-value, W/m <sup>2</sup> K, external wall	0,35	0,29	0,22	0,22	0,26	0,26	0,16	0,15 / 0,18
U-value, W/m <sup>2</sup> K, roof	0,26	0,24	0,18	0,18	0,21	0,21	0,15	0,14
U-value, W/m <sup>2</sup> K, floor	0,26	0,26	0,18	0,18	0,26	0,26	0,18	0,12
U-value, W/m <sup>2</sup> K, window	1,3	1,0	1,0	1,0	1,3	1,3	1,0	0,89
U-value, W/m <sup>2</sup> K, ext.door	1,6	1,6	1,6	1,1	1,6	1,6	1,0	0,84

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

Attribute	ENV-C	SHA	SHAA	TEK17	WIDE	FEA	K-TYPE	LEM
Maximum storey count <sup>1</sup>	2	2	2	2	2	2	2	3
Fire Rating <sup>2</sup> , external wall.	REI15	REI30	REI30	REI30	REI30	REI30	REI30	REI60
Fire Rating, roof	REI30	REI30	REI30	REI30	REI30	REI30	REI30	REI60
Fire Rating, floor	REI15	REI30	REI30	REI30	REI30	REI30	REI30	REI60
Fire Rating, internal wall	-	-	-	-	-	-	- / EI30	- / EI60
Dead load, kN/m <sup>2</sup> (floor)	2,6	2,6	2,6	2,6	2,0	2,6	3,0	2,0
Snow load, kN/m <sup>2</sup> (roof)	2,75	3,6	3,6	6,5	3,5	3,6	2,75	1,00

1) 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 three storeys. Contact Ramirent Modular Factory directly for more information.

2) The listed REI values are the minimum values in case of a two-storey building in most Nordic locations. The exact 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 (i.e., for accommodation buildings, staircases, etc.).

## 5. Functionality & Features

- ✓ Included
- ✓ Optional
- ✗ Not an option

Feature	ENV-C	SHA	SHAA	TEK17	WIDE	FEA	K-TYPE	LEM
Steel Base Frame	✓	✓	✓	✓	✓	✓	✗	✓
Liftable via Forklift	✓	✓	✓	✓	✓	✓	✗	✓
Liftable via Crane	✓	✓	✓	✓	✓	✓	✓	✓
Window Steel Bars	✓	✓	✓	✓	✓	✓	✓	✓
Sun Protection Glazing	✓	✓	✓	✓	✓	✓	✓	✓
Door Closer	✓	✓	✓	✓	✓	✓	✓	✓
ASSA 565 door lock	✓	✓	✓	✓	✓	✓	✓	✓
Electrical lock cables installed	✓	✓	✓	✓	✓	✓	✓	✓
<b>Electrical connection</b> CEE 432-6, 32A, <b>230V</b>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Electrical connection</b> CEE 432-6, 32A, <b>400V</b>	✓	✓	✓	✓	✓	✓	✓	✓
Energy Saving Options	✓	✓	✓	✓	✓	✓	✓	✓
LED lighting	✓	✓	✓	✓	✓	✓	✓	✓
Motion sensor	✓	✓	✓	✓	✓	✓	✓	✓
Electric Heating	✓	✓	✓	✓	✓	✓	✓	✓
Water-to-Air Heat Pump	✓	✓	✓	✓	✓	✓	✓	✓
Air-to-Air Heat Pump / AC	✓	✓	✓	✓	✓	✓	✓	✓
Floor Heating	✓	✓	✓	✓	✓	✓	✓	✓
Ventilation heat recovery	✓	✓	✓	✓	✓	✓	✓	✓
CO <sup>2</sup> sensor	✓	✓	✓	✓	✓	✓	✓	✓
Ethernet Wall Sockets	✓	✓	✓	✓	✓	✓	✓	✓
Concealed cabling	✓	✓	✓	✓	✓	✓	✓	✓
Concealed sewage pipes	✓	✓	✓	✓	✓	✓	✓	✓
Hot water	✓	✓	✓	✓	✓	✓	✓	✓

## 6. Interior Design Options

- ✓ Standard solution
- ✓ Optional solution
- ✗ Not an option

Feature	ENV-C	SHA	SHAA	TEK17	WIDE	FEA	K-TYPE	LEM
<b>Wall Finish</b> – Forestia one-step laminated chipboard panels (D-s2,d0) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Wall Finish</b> – Huntonit MDF panels painted with fire retardant (B-s1,d0) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Wall Finish</b> – Painted gypsum boards (A2-s1,d0) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Ceiling Finish</b> – Forestia one-step laminated chipboard panels (D-s2,d0) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Ceiling Finish</b> – Huntonit MDF panels painted with fire retardant (B-s1,d0) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Ceiling Finish</b> – Painted gypsum boards (A2-s1,d0) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Floor Finish</b> – PVC flooring (usage class 34/43, slip resistance R9) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Floor Finish</b> – PVC flooring (usage class 34/43, slip resistance R10, Bfl-s1) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Floor Finish</b> – PVC flooring (usage class 34/43, slip resistance R10, Bfl-s1) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Floor Finish</b> – LVT flooring (usage class 34/43, slip resistance DS, Bfl-s1) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Floor Finish</b> – Hardwood flooring (usage class 23/33, Cfl-s1) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Moulding</b> – painted plastic trims (standard = white or gray)	✓	✓	✓	✓	✓	✓	✓	✓
<b>Moulding</b> – painted wood trims (standard = white or black)	✓	✓	✓	✓	✓	✓	✓	✓
<b>Moulding</b> – painted wood trims (standard = beech, white)	✓	✓	✓	✓	✓	✓	✓	✓

**i** 1) Contact Ramirent Modular Factory to hear more about the different options for color and texture.

## 7. Exterior Design Options

- ✓ Standard solution
- ✓ Optional solution
- ✗ Not an option

Feature	ENV-C	SHA	SHAA	TEK17	WIDE	FEA	K-TYPE	LEM
<b>Facade Finish</b> – Painted vertical wooden siding	✓	✓	✓	✓	✓	✓	✓	✓
<b>Facade Finish</b> – Painted horizontal wooden siding	✓	✓	✓	✓	✓	✓	✓	✓
<b>Facade Finish</b> – Painted fibre cement boards	✓	✓	✓	✓	✓	✓	✓	✓
<b>Facade Finish</b> – Aluminium Composite Panels	✓	✓	✓	✓	✓	✓	✓	✓
<b>Roof finish</b> – SBS bitumen roofing	✓	✓	✓	✓	✓	✓	✓	✓
<b>Roof finish</b> – PVC roofing membrane	✓	✓	✓	✓	✓	✓	✓	✓
<b>Windows</b> – PVC frame	✓	✓	✓	✓	✓	✓	✓	✓
<b>Windows</b> – Wooden frame	✓	✓	✓	✓	✓	✓	✓	✓
<b>External doors</b> – Hot-dip galvanized steel doors	✓	✓	✓	✓	✓	✓	✓	✓
<b>External doors</b> – Painted steel doors	✓	✓	✓	✓	✓	✓	✓	✓
<b>External doors</b> – Painted wooden doors	✓	✓	✓	✓	✓	✓	✓	✓
<b>Metal trims</b> – Hot-dip galvanized steel trims	✓	✓	✓	✓	✓	✓	✓	✓
<b>Metal trims</b> – Painted steel trims	✓	✓	✓	✓	✓	✓	✓	✓
<b>Rainwater system</b> – Hot-dip galvanized steel gutter & downpipe	✓	✓	✓	✓	✓	✓	✓	✗
<b>Rainwater system</b> – Painted steel gutter & downpipe	✓	✓	✓	✓	✓	✓	✓	✗
<b>Rainwater system</b> – Concealed rainwater system	✗	✗	✗	✗	✗	✗	✓	✓
<b>Electrical connection box</b> – Protruding from facade	✓	✓	✓	✓	✓	✓	✗	✗
<b>Electrical connection box</b> – Flush with facade	✓	✓	✓	✓	✓	✓	✗	✓
<b>External water &amp; sewage connection</b> – Through external wall	✓	✓	✓	✓	✓	✓	✓	✓
<b>External water &amp; sewage connection</b> – Through floor	✓	✓	✓	✓	✓	✓	✓	✓