



Marin & Offshore

**Comfort and  
safety at sea.**

 **ISOLAMIN**  
By PartGroup



# ISOLAMIN

By PartGroup

In the early seventies ISOLAMIN in cooperation with Swedish shipbuilders developed and launched a new panel for marine accommodation partitions. This represented a break-through for industrial methods in the manufacture and installation of marine accommodation outfits.

Our panels have a core of noncombustible material, low weight, good thermal conductivity and excellent fire resistance. With facings of vinyl coated, painted galvanised

steel sheets or stainless steel, it provides a self-supporting panel with high impact strength and excellent sound reduction. The long

edges of the panel are profiled to a flexible, flush and almost invisible joint. ISOLAMIN continuously develops new high technology panel structures in cooperation with our customers, suppliers, marine associations and authorities. All supplies are "tailor made" in accordance with customer requirements.

ISOLAMIN products are today market leading in sound reduction as well as fire resistance with our sandwich constructions. Production capacity exceeds 400 000 sq.m. and our products are approved worldwide for use on ships and offshore platforms.

# Isolamin superior accommodation system.

This panel system is the result of almost 40 years experience of marine accommodation deliveries to ships, offshore platforms and marine installations worldwide. The flexible system comprehends optimized solutions to the requirements from ship owners, naval architects, installers and above all, the people who spend their time at sea with our products.

## Decorative finish

In rough weather at sea you really appreciate a warm and lively atmosphere on board. We have a wide range of decorative facings with coordinated colours, patterns and structures. Choose from PVC-coatings, painted colours to stainless steel finish. This offers almost unlimited possibilities to create a pleasant interior on board.

## Thermal comfort

The panel core consists of special made mineral wool, which gives a high thermal resistance to the panel. By choosing thicker panels, the surface temperature will be increased, which eliminates cold draughts onboard ships travelling in cold climates. Additional insulation on hull side is not needed, which means reduced costs for material and installation.

## Acoustic comfort

The ISOLAMIN panel was originally developed to meet increased requirements on acoustic comfort onboard Swedish ships. The system has now been improved to meet requirements for reduction of airborne sound transmission from 27 up to 51 dB Rw. The installation method and design of the panel joint takes care of structure borne sound transmissions and vibrations.

## Fire protection

ISOLAMIN flexible bulkhead system meets requirements for fire resistance according to the international convention for safety of life at sea (SOLAS). The core material is incombustible. The decorative finishes have low smoke emission and low spread of flame. Most authorities and classification societies throughout the world approve the panels.

## Light weight

Weight is of great importance when it comes to safety of stability, load capacity and fuel economy. The flexible bulkhead system is lightweight, only 8,4 – 34,4 kg/m<sup>2</sup> depending on type of panel. By choosing the right panel for each purpose, the total weight of the system can be kept to a minimum.

## Flexible and easy to install

The Isolamin accommodation system has been adapted to suit the practical reality during installation onboard. The flexibility of installation makes it possible to easily adjust to practical measure tolerances or last minute changes in the installation drawings. The panels are easy to cut to make holes for windows, conduits, etc or adjust the panel width for connection to other bulkheads.

Isolamin can supply the complete accommodation walls and ceilings tailor made to avoid cutting onboard. This means that every panel is made to suit an exact place then the delivery often includes prefabricated L- and T-corners for extra tightness and dust free environment.

The flexibility and flush installation means good installation and maintenance economy. The cost of the high quality components is more than outbalanced by less man hours and costs for design, workshop manufacture and installation. Capital cost is reduced due to reduced time for installation.

## The most advanced joint system on the market

The Isolamin joint system C is the "original" and most advanced joint system on the market with the following advantages:

- *Easy and fast installation and demounting*
- *Easy to remove any panel alone for inspection or replacement in case of damages*
- *Rigid construction which gives you a strong installation and strong long edges*
- *"Flush" fitting of panels and profiles*
- *Kind with tolerances as every joint manages changes against tolerance up to 2 mm, giving you big advantages during installation*
- *Pressure, suction, and splash proof and tight joint system*
- *Very few profile types necessary during installation*

Isolamin ceiling gives the possibility to open each panel for easy access to all equipment above. This is a demand today especially in alleyways on offshore accommodation platforms.

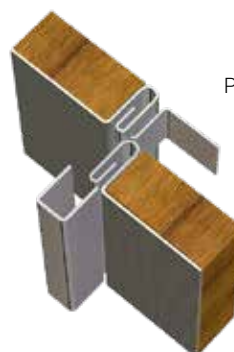
# Panels

## Decoration panels

Panel used as refurbishment lining

Article Name	Panel weight kg/m <sup>2</sup>	Thick-ness mm	Fire rating	Sound reduction db Rw
PADEC16	8,3	16	Incombustible	7 db*

\*) In combination with our 34 dB partiton an additional 7 dB increase giving the refurbished wall a total soud reduton value of 41 dB Rw.



PADEC16

## Lining panels

These panels are used as lining at internal steel bulkheads, wet units, etc. The panels are manufactured with decorative finish on one side only.

Article Name	Panel weight kg/m <sup>2</sup>	Thick-ness mm	Fire rating	Sound reduction db Rw
PA33C25	13,8	25	B-0	29
PA33C3X25	14,1	25	B15	30
PA34C25P	17,2	25	B-0	34 (as lining)



PA33C25 / PA34C25P

## Partition panels

The all-round panels of the system mainly used as partition, but with properties that make it suitable for almost all accommodation purposes.

Article Name	Panel weight kg/m <sup>2</sup>	Thick-ness mm	Fire rating	Sound reduction db Rw
PA30CAL50	8,4	50	B-15	27
PA30C50	14,1	50	B-15	30
PA33C50	21,1	50	B-15	33
PA33CL100	29,0	100	A-60	34
PA33CL80	25,9	80	A-60	33



PA30CAL50 PA33C50

Single wall panels of the system mainly used as partition with high sound reduction requirements.

Article Name	Panel weight kg/m <sup>2</sup>	Thick-ness mm	Fire rating	Sound reduction db Rw
PAIRP42	21,0	50	B-15	42
PA43C50	25,2	50	B-15	45



PAIRP42 PA43C50

Double wall panels of the system mainly used as partition with extreme sound reduction requirements.

Article Name	Panel weight kg/m <sup>2</sup>	Thick-ness mm	Fire rating	Sound reduction db Rw
PA42C50	23,0	50	B-15	42
PA42C70	23,2	70	B-15	45
PA34C25P	34,4	60	B-15	51 (as partition)



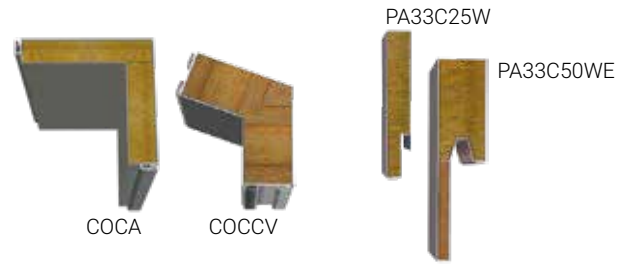
PA42C50  
PA42C70  
PA34C25P

### Corner panels

L- and T-corner panels are often part of our supply and are available for all panel produced thicknesses. L-corners are also available as special corners with variable angles > 90 degrees.

### Special panels

Our product range includes special panel versions as wet unit panels, reinforced and cable panels.



# Ceilings

### Ceiling panels

Vinyl coated, polyester painted or stainless steel sandwich ceiling, self supporting up to a span of 3000 mm. For larger spans a carrier profile is suspended from the deck above. This is a high strength ceiling panel for tough environments. Each panel is easy demountable for inspection.

Article Name	Panel weight kg/m <sup>2</sup>	Thickness mm	Fire rating	Sound reduction db Rw
PAIFC501	11,4	50	B-15/A30	48 (Estimated room to room)
PAIFC501P	11,1	50	B-15/A30	50 (Estimated room to room)



### Ceiling Cassette

Vinyl coated, polyester painted or stainless steel lightweight ceiling for cabins, corridors and public areas, selfsupporting up to a span of 2500 mm. The 300 mm wide cassette is filled with a layer of mineral wool for sound reduction and fire class.

Article Name	Panel weight kg/m <sup>2</sup>	Thickness mm	Fire rating	Sound reduction db Rw
PAIFC301	6,1	30	B-0	49 (Estimated room to room)



# Floating Floor

Isolamin floating floor system is a cost efficient way to cut out noise and vibration. It provides A60 fire resistance in a very time saving way compared to pinning insulation from underneath the steel deck. The floating floor carries the load of internal partitions and isolates the complete

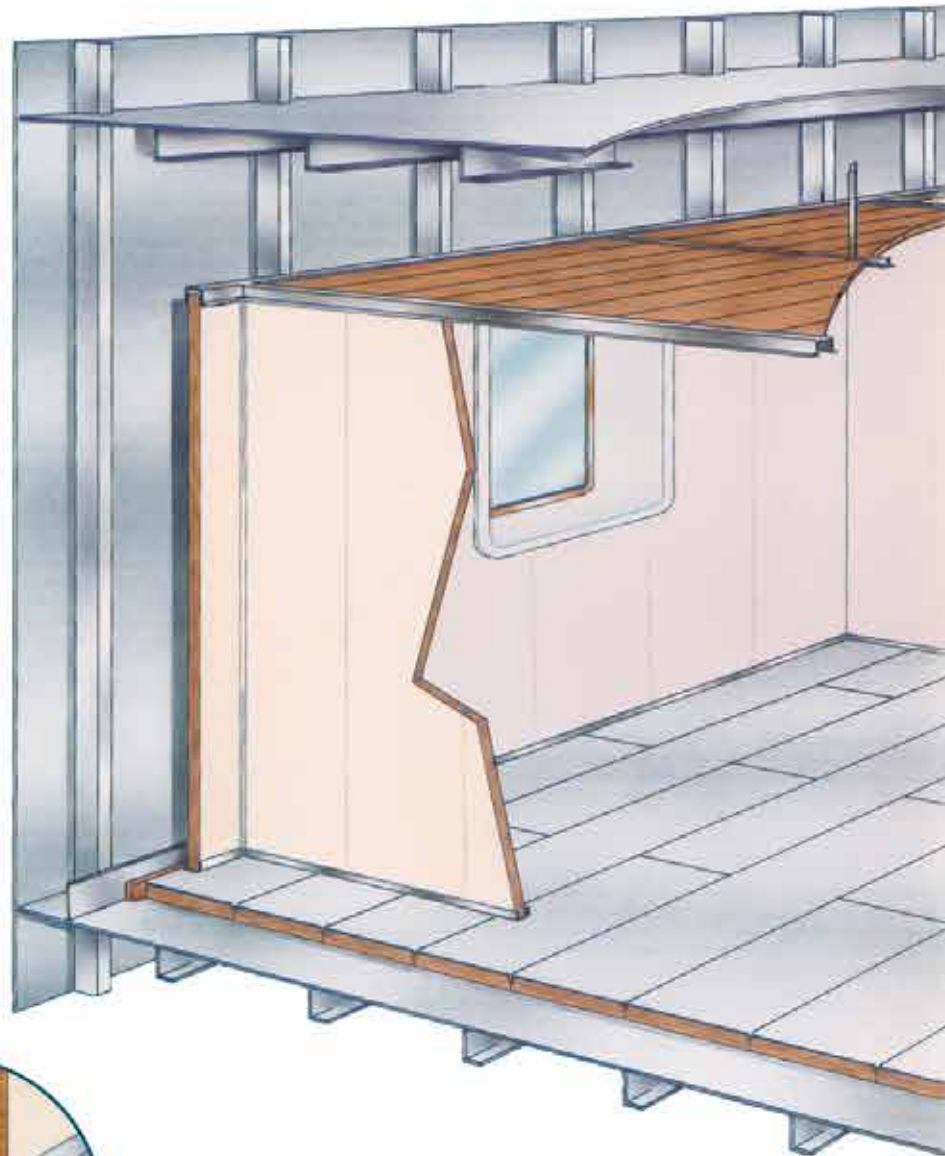
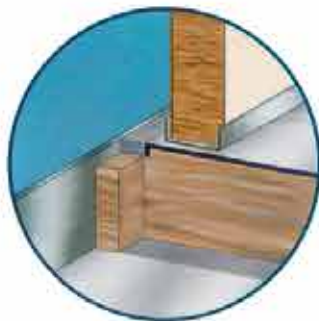
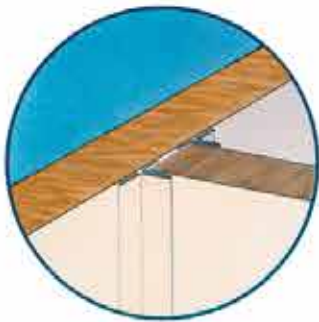
Article Name	Panel weight kg/m <sup>2</sup>	Thickness mm	Fire rating	Sound reduction db Rw
PAFF50	34,0	53	A-60	53
PAFF70	36,0	73	A-60	54
PAFF55AL	22,4	55	---	---

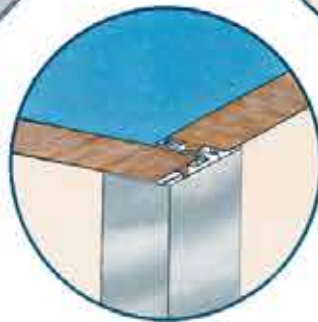
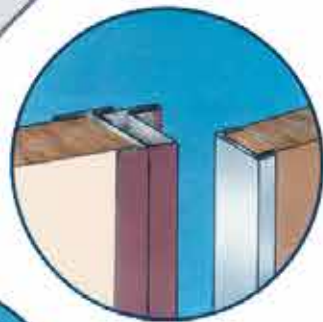
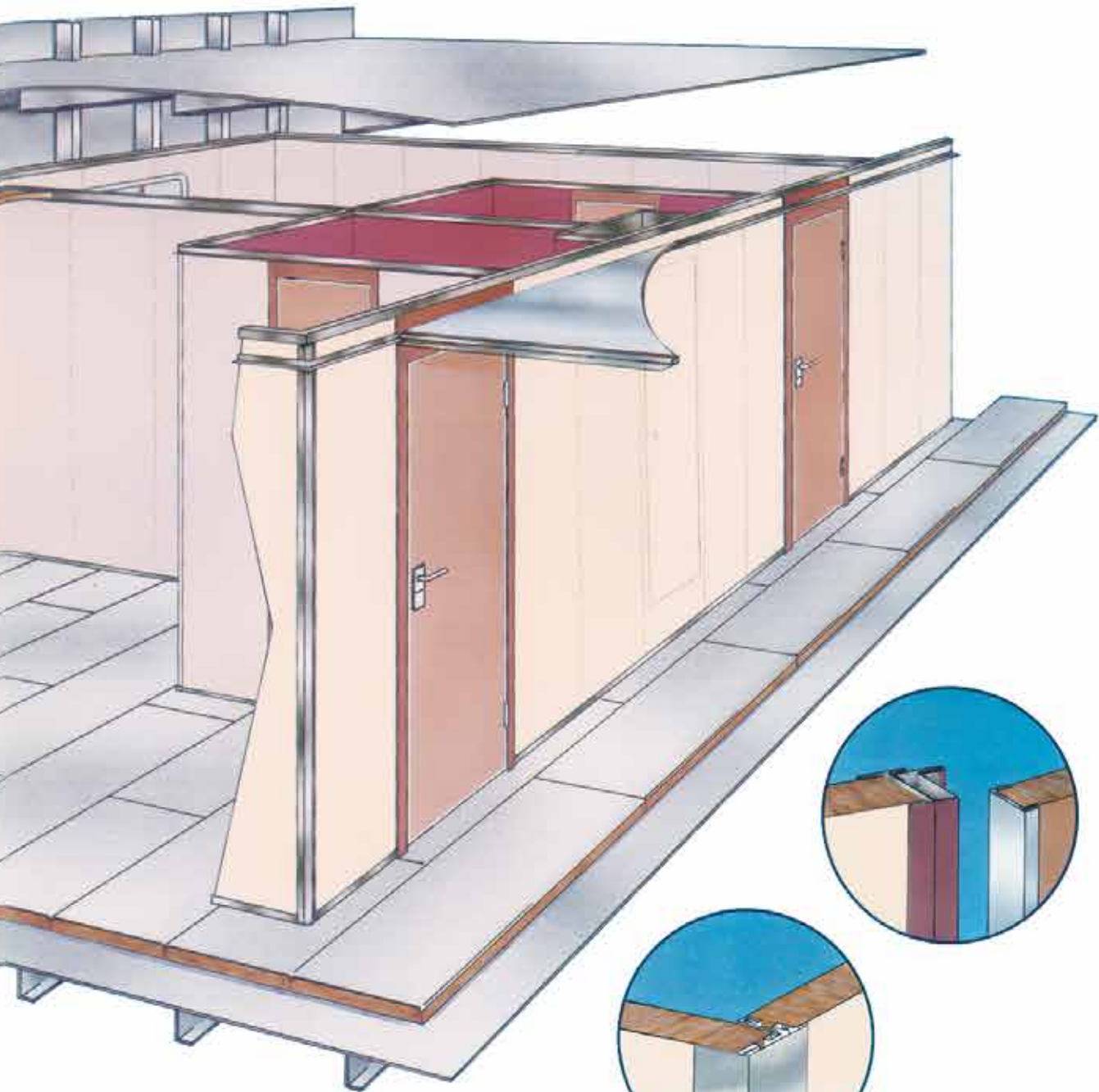
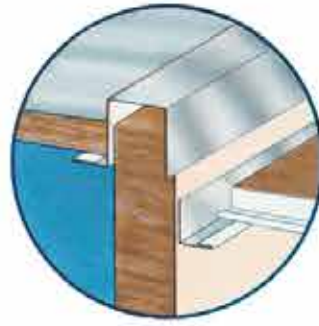
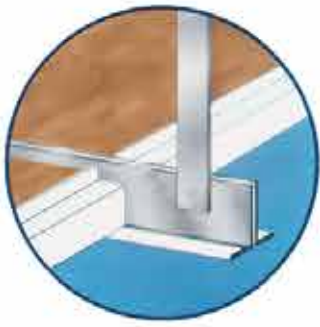


Isolamin

# The system

We deliver panels, ceilings and floating floors, all compatible products in a flexible system for cabins, galleys, workshops and other marine interiors. The system is designed to meet requirements for offshore platforms, ferries, cargo ships and cruisers. Any type of marine interior or built anywhere in the world.





# Profiles

Profiles are as standard delivered in the following materials:

- Vinyl coated galvanised steel.
- Galvanised steel
- Polyester painted galvanised steel
- Stainless steel, ground sheet 180 grit.

## Top- and Bottom profiles

Length 2500 mm

PR27G, PR25G, PR62G, PR725G, PR625G

## Joint profiles

Length 2000 – 3000 mm

PR11P, PR12G, PR82G

## Connection profiles

Length 2000 – 3000 mm

PR31P, PR32P, PR38P, PR36P, PR736P, PR726P, PR636P

## Corner profiles

Length 2000 – 3000 mm

PR39P, PR33P, PR65P, PR733P, PR633P, PR34P

## Top profiles

Length 2500 mm

PR54G, PR52G, PR57G, PR742G, PR642G, PR56P, PR53P

PR51P, PR59P

## Ceiling profiles

Length 2500 mm

PR21P, PR22P, PR22PM

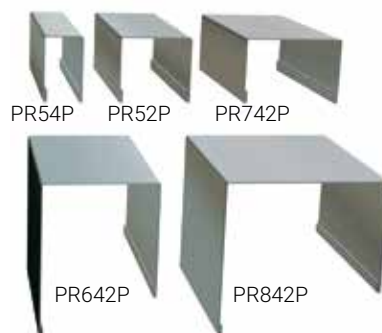
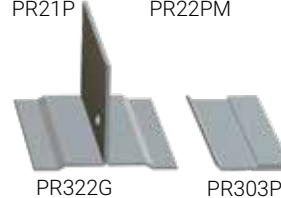
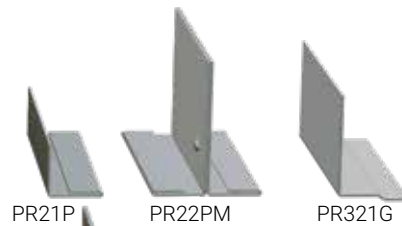
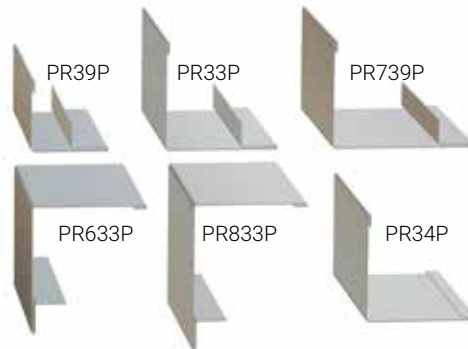
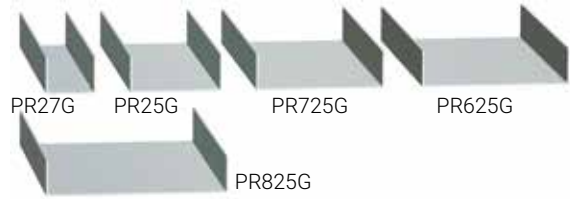
Length 2500 - 3000 mm

PR303P (2500 mm), PR321G, PR322G

## More detailed Information

If you need more detailed information about our product range, reference information, specification instructions or mounting manuals, please visit our website:

[www.isolamin.com](http://www.isolamin.com)





# Some references



# Enquiries, ordering and supply

Isolamin accommodation system is sold direct from our Head office and Factory in Överkalix, Sweden. Sales agents in many countries where ships, offshore modules or complete platforms are built, represents the company.

## Logistics

Panels are packed in wooden crates with cardboard and shrink plastic and profiles are packed separately in wooden crates. All packages are marked with exact destination onboard, with a copy inside, and in special cases at complete tailor-made supplies, every panel has its own marking, all in equivalence with the installation drawings which can be supplied.

## Quote Specification

For quotation a rough system specification should be supplied, preferable according to Isolamin specification form, as seen on

the next page. At this stage it is not necessary to specify profiles and vinyl colours. Do not forget to state Supervisory Authority. Based on this information, we are able to offer you our products with proper certificates enclosed.

## Order Specification

The order specification has to be more tailor-made as shown on the next page. We supply panels and profiles crated and marked according to your requirements to improve logistics on site.

# Engineering, advice and service

Doing business with us means full access to know-how and experience from deliveries to Marine and Offshore projects World Wide.

If you need information or detail solutions for special requirements, please study our product binder or contact our representative and we will be happy to assist you. ISOLAMIN has the unique capacity to offer the total accommodation package, tailor made for your safety, comfort and requirements, complete from

general arrangement drawings, installation drawings to package delivery, coordinated to your project plan. Should experience supervision during installation be required, we would be pleased to assist.

In this brochure is to be found technical specifications based on years of experience in the field of Marine & Offshore applications. The information herein is to assist our customers in determining the general suitability and does not constitute a warranty expressed or implied concerning the reliability of this information.

The technical information in this edition was accurate at the time of printing. We reserve the right to make changes due to the progressive development of our products.





Copyright © Isolamin AB, 2019.

## Isolamin Sweden AB

Industrivägen 5, SE-956 32 Överkalix, Sverige

+46 (0)926 756 00 | [info@isolamin.se](mailto:info@isolamin.se)

[www.isolamin.se](http://www.isolamin.se)



# ISOLAMIN

By PartGroup