



## ISOVER FLOATING FLOOR COVERING CONSTRUCTIONS, FOR INDOOR APPLICATIONS

Smart solutions for quieter, safer and  
stronger spaces

# U SEAPROTECT®: THE ULTIMATE FLOATING FLOOR SOLUTION FOR PERFORMANCE AND SAFETY

Every environment is unique, so your flooring system should be too. We offer 3 tailored solutions, each designed to meet different performance needs. Let's find the one that fits your priorities!

## 3 DESIGNS, 1 FREEDOM OF CHOICE



### System advantages

#### → 1 - LOOKING FOR ACOUSTIC COMFORT?

Yes: Select **U SeaProtect® Slab** achieving at least 55 dB airborne sound insulation performance or increase your insulation thickness.

No: A thinner, lighter insulation solution may be sufficient.

#### → 2 - NEED FIRE RESISTANCE?

Yes: Select A-60 systems feature **U SeaProtect®** insulation, delivering certified fire protection for peace of mind.

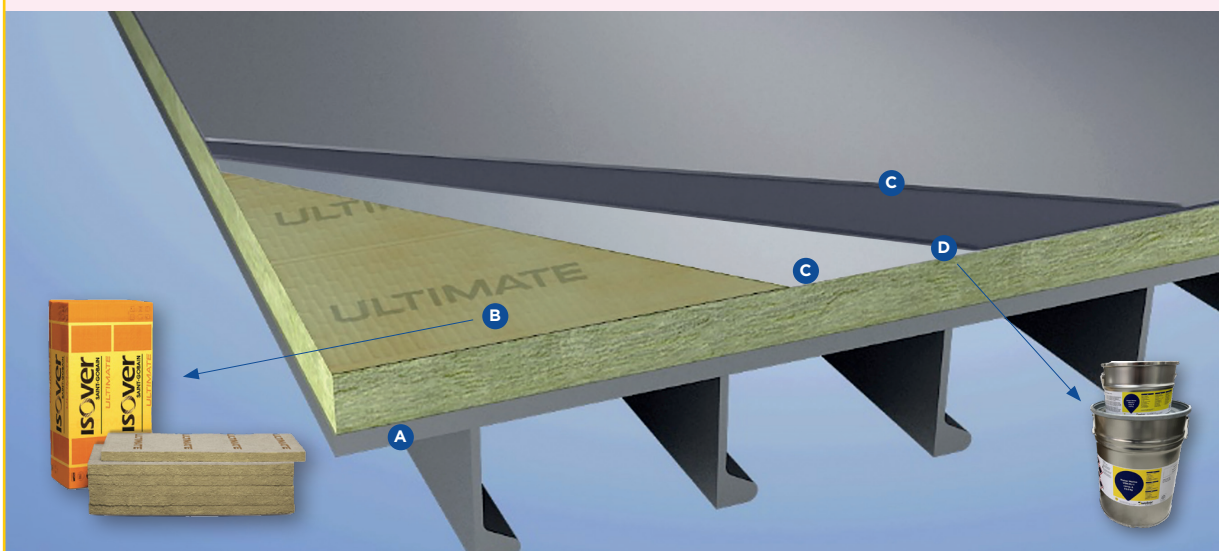
No: Opt for a lighter, thinner more cost-effective solution.

#### → 3 - EXPECT HIGH TRAFFIC?

Yes: Select a durable system built with **U SeaProtect® CR-H Slab**.

No: A softer, more flexible option may be ideal.

### Systems description

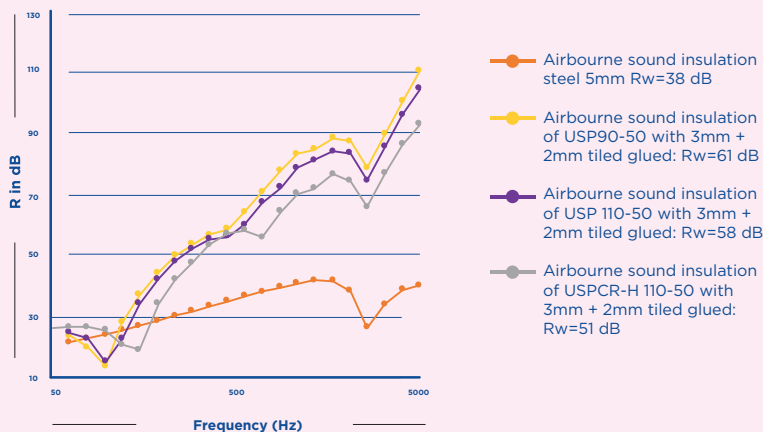


- A** Steel Deck
- B** Insulation / **U SEAPROTECT® INSULATION** (3 options)
- C** Steel plates / 3 + 2 mm steel plates
- D** Visco-elastic / **WEBER MARINE VEM PU-1** sound dampening

## System features

		1 ↓	2 ↓	3 ↓
		LOOKING FOR ACOUSTIC COMFORT?	NEED FIRE RESISTANCE?	EXPECT HIGH TRAFFIC?
Feature		Acoustic Floor for quieter environments	A-60 Fire Resistant Flooring	A-60 & Heavy-Duty Performance Floor
<b>SYSTEM CHARACTERISTICS</b>	Insulation	U SeaProtect® Slab 90	U SeaProtect® Slab 110	U SeaProtect® CR-H Slab 110
	Insulation thickness	50 mm (other thicknesses possible)	minimum 50 mm	minimum 50 mm
	Top layer	3 +2 mm steel plate with visco-elastic layer type «WEBER MARINE VEM PU-1»		
	Fire Class	A-0	A-60	A-60
	Final thickness	56 mm (other thickness possible)	min. 56 mm	min. 56 mm
	System weight	45 kg/m <sup>2</sup>	46 kg/m <sup>2</sup>	46 kg/m <sup>2</sup>
	Airborne sound insulation, $R_w$ in dB	61	58	51
<b>INSULATION PARAMETERS</b>	Impact sound level $L_{n,w}$ in dB	67	69	74
	Insulation Density	90 kg/m <sup>3</sup>	110 kg/m <sup>3</sup>	110 kg/m <sup>3</sup>
	Insulation Fiber orientation	Laminar	Laminar	Crimped
	Thermal conductivity at 10°C	31 mW/(m.K)	31 mW/(m.K)	37 mW/(m.K)
	Compressive strength (acc. EN826)	5 kPa	9 kPa	45 kPa
	Dynamic stiffness	4 MN/m <sup>3</sup>	5 MN/m <sup>3</sup>	12 MN/m <sup>3</sup>

### Airborne sound insulation



### DID YOU KNOW

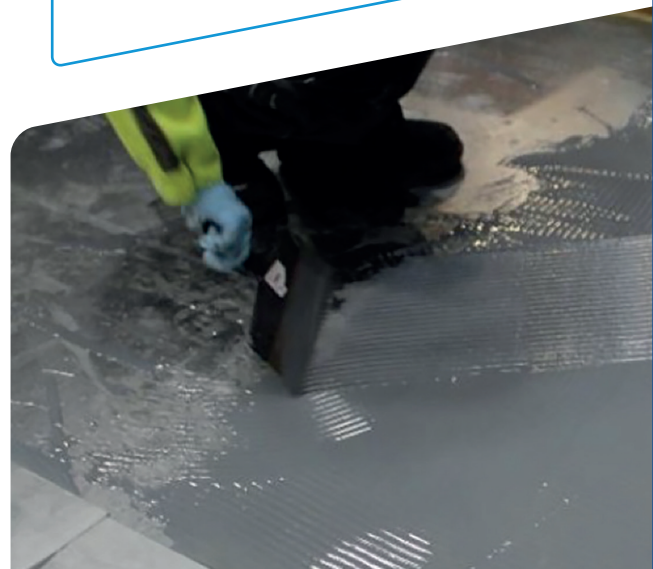
During production, fibers naturally align in horizontal layers, creating a laminar structure, great for insulation, but with low mechanical resistance. To boost performance, manufacturers use a crimping machine to reorient the layers vertically, enhancing the product's mechanical strength and versatility.



## HOW TO INSTALL

Installing your floating floor system is simple and efficient with **U SeaProtect®**. Follow these key steps for optimal.

Apply **U SeaProtect® Slab** directly on the steel deck. The first layer of steel plate must be applied directly on top of **U SeaProtect®**, then spread Weber VEM PU-1 visco-elastic onto the first layer of steel plate using a coating knife or RS-4 toothed blade (following Weber instruction) to get a finish layer thickness of approx. 1 - 2 mm. While the compound is still wet, apply the second layer of steel plate, making sure to stagger the joints relative to the first layer for added strength and stability.



LEARN MORE ABOUT OUR INSULATION  
SOLUTION U SEAPROTECT®:



**SAINT-GOBAIN**  
Saint-Gobain ISOVER  
Tour Saint-Gobain  
12 place de l'Iris  
92096 La Défense Cedex - France  
[www.isover-technical-insulation.com](http://www.isover-technical-insulation.com)

The information given in this brochure is based on our current knowledge and experience. If any information is incorrect this is not deliberate or grossly negligent. This document is not continually updated and we cannot be held responsible for any unintentional errors. For the most up-to-date information, please visit our website: [www.isover-technical-insulation.com](http://www.isover-technical-insulation.com)