



#### **ISOFLEX AB**

is the original manufacturer of the passenger coach and translucent window insulation Moniflex. Company headquarters are located in Gustafs, close to the city of Borlänge, some 220 km NW of Stockholm, Sweden.

#### **MONIFLEX AND THE ENVIRONMENT**

Moniflex material complies with the REACH legislation. As with Moniflex, which is made from recyclable and renewable raw materials, also the manufacturing methods and equipment have been designed with the environment in mind. All harmful emissions from the process have been eliminated and waste or scrap is being recycled and used again in the production of new foil.

**Isoflex AB** is not only a manufacturer and supplier of insulation material, we also can offer our customers:

- Training
- Documentation
- Engineering
- Design/Mockup
- Quotation/Contract
- Project management

# MONIFLEX®



## ISOFLEX®

Isoflex AB • Soldatvägen 1  
SE-783 50 GUSTAFS • Sweden  
Telephone +46 243 841 50  
Telefax +46 243 22 92 00  
E-mail: [info@isoflex.se](mailto:info@isoflex.se)  
[www.isoflex.se](http://www.isoflex.se)

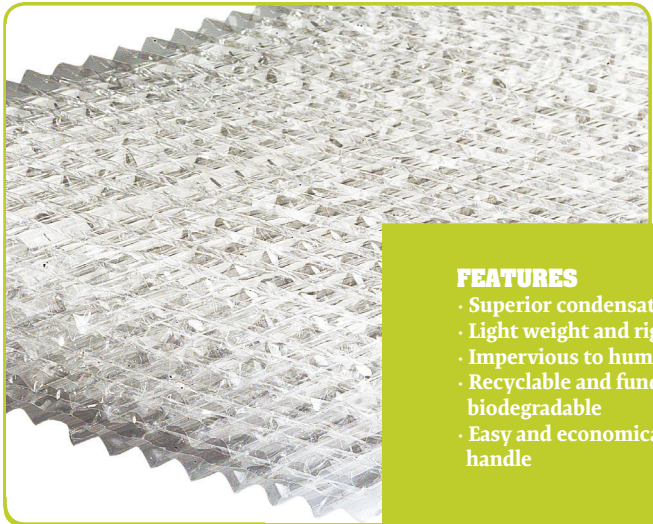
## No. 1 in condensation management

## ISOFLEX®



Moniflex

Moniflex is the first choice when it comes to condensation handling in rail vehicles. Moniflex is a well-established product, which still proves its superior properties, particularly in all types of tracked vehicles. Moniflex consists of pleated layers of cellulose acetate foil, with every other layer glued crosswise to form a sheet of suitable thickness. Produced from renewable and sustainably sourced wood pulp. For improved fire protection aluminum foil can be added.



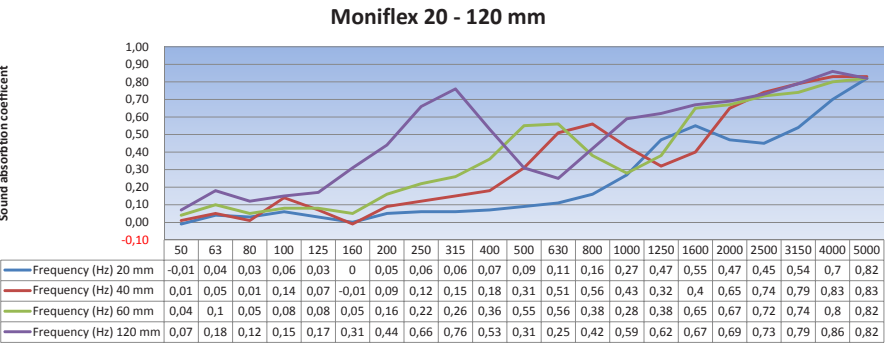
FEATURES

- Superior condensation handling
- Light weight and rigid
- Impervious to humidity and molding
- Recyclable and fundamentally biodegradable
- Easy and economical to cut and handle
- No protective clothing required
- Non-toxic, non-fibrous
- Long life
- Fulfills most international fire standards

FIRE PROTECTION	CLASSIFICATION
DIN 5510-2	S4/S3, SR2, ST2
CEN/TS EN 45545-2:2013	HL3 (R1) (R10)
NF F 16 101/102	F1, M1
UNI CEI 11170	
UNI 8457/9174	1B
Floor insulation	LR1/LR2/LR3/LR4
Wall insulation	LR1/LR2
Roof insulation	LR1/LR2
NFPA 130:2010	Approved
ASTM E662:2009	Ds 4 min 24,2 < 100
ASTM E162:2009	Is 1,8 ≤ 25
PN-K-02512:2000	P2, D1, R1
PN-K-02501:2000	D1
PN-K-02512:2000	R1
PN-K-02511:2000	P2
UIC Code 564-2	UIC Code 564-2
Appendix 15	A
Appendix 7	C
Appendix 4	A
GOST 30402-96	Approved
GOST 30244-94	Approved
GOST 12.1.044-89	Approved

Combined materials  
- the best of two worlds

MONIFLEX combined with other modern insulation materials; super-efficient insulation can be achieved. By combining the non-absorbing Moniflex with materials such as polyester, glass wool, or others it is possible to ensure that the inevitable moisture, which is the result of differences in inside and outside temperatures in rail coaches, only occurs in the Moniflex layers and is being drained of harmlessly. It also ensures that the material package is dry and retains its insulation and acoustic properties.



Moniflex + Melamine + Aluminium foil

This product is a lightweight, open cell melamine foam insulation developed as an alternative to traditional insulation systems, such as glass wool. These high performance melamine foam sheets have a wide temperature range, low smoke and flame properties and are available in standard sizes. Custom shapes and large foam panels are available by request.

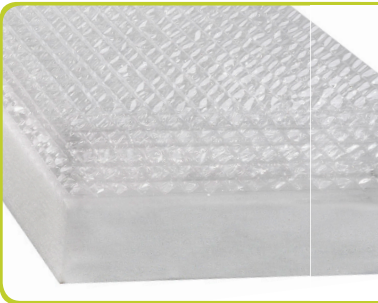


FEATURES

- Easy install
- Flexible
- High temperature
- Low smoke and flame ratings
- Flame resistance
- High sound absorption capacity
- Low weight
- Good thermal insulation properties

Moniflex + Polyester + Aluminium foil

Polyester is made from a white non-woven that fulfills the highest requirements of diverse flammability tests – optionally laminated with an embossed foil of highest-grade aluminum. Does not provide a substrate for mold and fungal growth.



FEATURES

- Superior condensation handling due to Moniflex
- High temperature resistance
- High sound absorption values
- Fulfills high requirements regarding fire performance
- User friendly – no protective clothing required
- Non-toxic, non-irritant and non-allergenic
- High shape stability
- Aluminum foil for fulfillment of the highest hygienically requirements
- The aluminum foil prevents the penetration of liquids and smoke

Moniflex + Glass wool + Aluminium foil

Glass wool has been a common insulation material for many decades in the rail industry. High performance for high temperatures, we focus on the unique thermal, acoustic and fire protection solutions. Our combined products will provide efficient insulation solutions for original equipment, where noise control is required. A range of non-combustible glass mineral wool slabs, used to provide acoustic and thermal insulation in a wide variety of applications.



FEATURES

- Superior condensation handling due to Moniflex
- High thermal and acoustic properties.
- Durable; it will not damaged easily during installation
- Not slump or consolidate in application.
- High fire performance