

ISOVER OPTIMA

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ISOVER OPTIMA

Integrated solution for dry lining system

Improvement of :

- Thermal comfort
- Acoustic comfort
- Moisture management
- Air quality
- Visual comfort



OPTIMA INSTALLATION

ISOVER

A Brand of Saint-Gobain

ISOVER
SAINT-GOBAIN

ISOVER OPTIMA

Technical certificate:

FRANCE

UK

IRELAND

ROMANIA



Isover Optima gets NSAI certification

Isover Optima, the high-performance insulation solution developed to improve thermal and acoustic performance

where outer facade or cavity wall insulation is not an option, has been awarded NSAI certification.

It is the first dry-lining system accredited by the NSAI and has been tested and approved not only to improve the thermal and acoustic performance, but also to reduce thermal bridging.

Photo shows Brian Dolan, Managing Director Gyproc and Isover Ireland with Sean Balfe, Director, Irish Agrément Board, NSAI.



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Advantages

Modular solution

Multiple possibilities of interior finishing

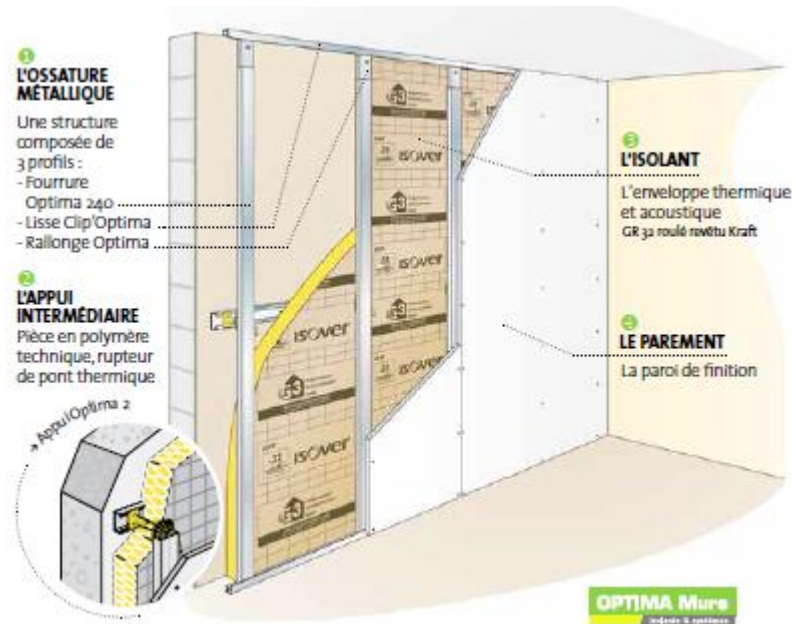
Easy installation on all surfaces

Limitation of the possible errors

High performances

Thermal and acoustic bridge free connections,
pass of cables without thermal loses

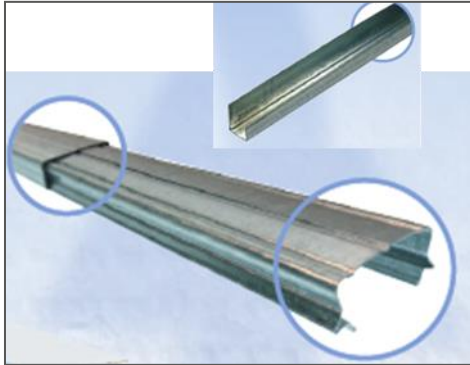
Up to 5 times less construction site waste
compared to classical solutions



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Components

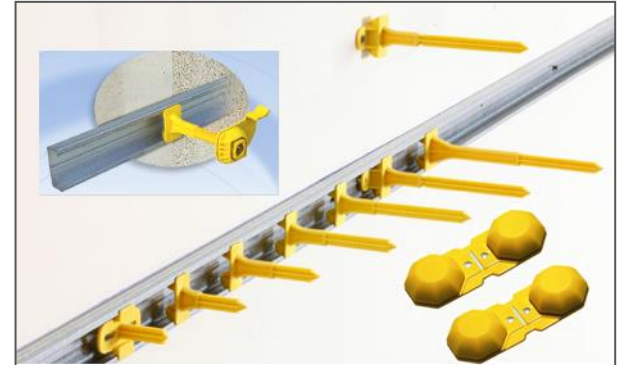
ISOVER telescopic profile system



ISOVER VARIO system



ISOVER OPTIMA fixation and connectors



ISOVER MW

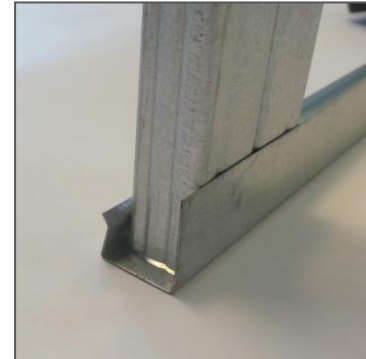


Rigips Activ'Air®



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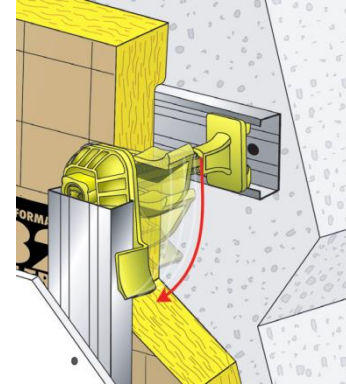
ISOVER telescopic profile system



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ISOVER OPTIMA fixation and connectors

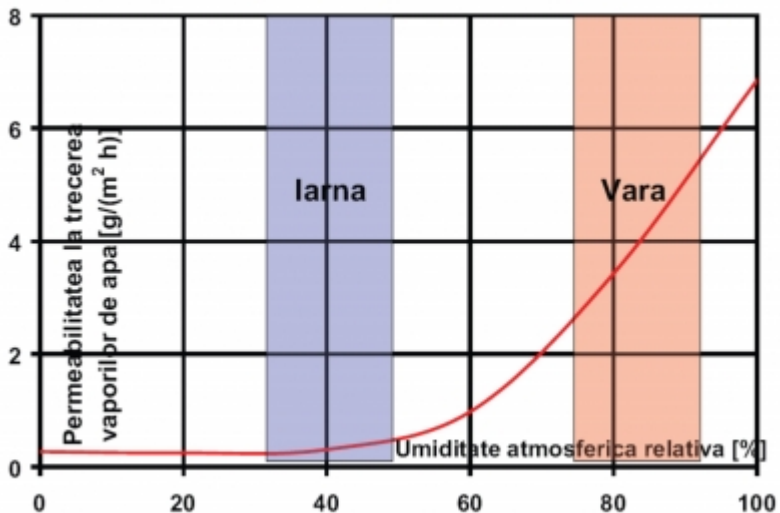
Up to 200mm thickness of insulation



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ISOVER VARIO system

Vario KM Duplex with variable permeability



Componentele sistemului ISOVER VARIO

Componentele sistemului ISOVER VARIO au fost dezvoltate și testate pentru a asigura o funcționare corectă a întregului ansamblu.



ISOVER VARIO KM Duplex - Membrană Climatică Inteligentă cu permeabilitate variabilă în funcție de umiditatea relativă din spațiul izolat. Produsul este disponibil la rolă: 1rolă=60m².



ISOVER VARIO DoubleFit - adeziv elastic pentru realizarea de lipituri etanșe la îmbinările dintre membrana ISOVER VARIO KM Duplex și pereți, placă sau planșeu. Produsul este disponibil la tub: 1tub=310ml.



ISOVER VARIO KB1 - bandă adezivă pentru etanșarea îmbinărilor dintre bucățile de membrană ISOVER VARIO KM Duplex. Produsul este disponibil la rolă: 1 rolă=40m



ISOVER VARIO MultiTape - bandă adezivă ranforsată pentru etanșeizarea la îmbinările cu tâmplăria, precum și a tuturor străpungerilor (trecerea cablurilor, cleștilor etc). Produsul este disponibil la rolă: 1 rolă=25m.

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Thermal Performance

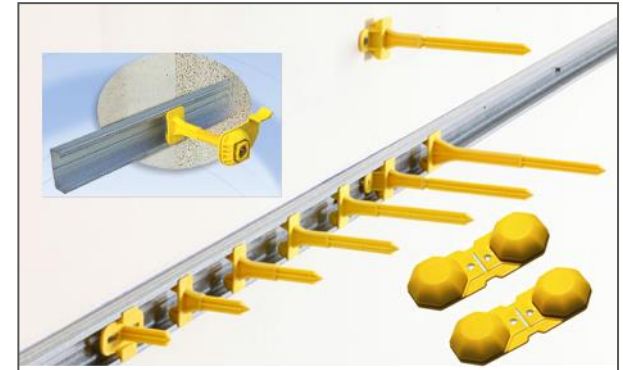
Depending of the selected insulation product and thickness

U values: 0.17

Thermal bridges study



ISOVER OPTIMA fixation and connectors



Raccord paroi intérieure à la façade		2.3-11	
Valeur U façade en W/(m ² ·K)	Façade		Valeur Ψ en W/(m·K)
	Brique t.c.	Béton armé	
0.15	0.11	0.15	
0.20	0.13	0.17	
0.25	0.14	0.19	
0.30	0.14	0.22	
0.35	0.15	0.23	
0.40	0.15	0.24	

Conditions standard
Mur intérieur en brique t. c. 12.5 cm

Majorations
Mur intérieur en brique t. c. 15 cm + 0.02 W/(m·K)

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Acoustic performances

Depending on the selected ISOVER products

Depending on the support wall

Up to $R_w(C;C_{tr})$ dB = 79(-3,-9)



Support	Isolant	Parement	Support seul (R_w (C; C_{tr}) dB)	Support + Optima Mur (R_w (C; C_{tr}) dB)	Rapports d'essais
Béton de 16 cm	GR 32 - 100 mm	1 BA13	56 (-2;-7)	74 (-4;-10)	CSTB n°AC08-26014413/1
Parpaing creux de 20 cm + enduit	MONOSPACE 35 - 100 mm	1 BA13	56 (-1;-3)	79 (-3;-9)	CSTB n°AC08-26014413/2
	GR 32 100 mm	1 BA13	56 (-1;-3)	78 (-2 ; -8)	CSTB n°AC08-26014413/2
	GR 32 - 160 mm	1 BA13	56 (-1;-4)	82 (-4;-10)	CSTB n°AC08-26014413/2
Brique creuse en terre cuite de 20 cm + enduit	GR 32 - 100 mm	1 BA13	45 (-3,-9)	69 (-3;-11)	CSTB n°AC08-26014413/4
Brique en terre cuite à joints minces de 500 x 200 x 314 mm + enduit	GR 32 - 100 mm	1BA13	41 (0 ; -2)	69 (-3 ; -9)	CSTB n°AC08-26014413/3
	GR 32 - 160 mm	1BA13	41 (0 ; -1)	72 (-3 ; -8)	CSTB n°AC08-26014413/3

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Moisture management performances

Dynamic simulation soft

WUFI Pro 3.5

Norms

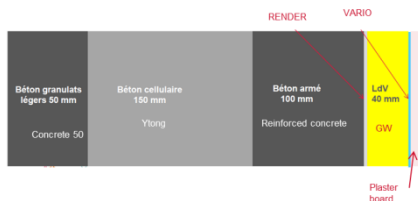
ASHRAE 160



NF EN ISO 6946

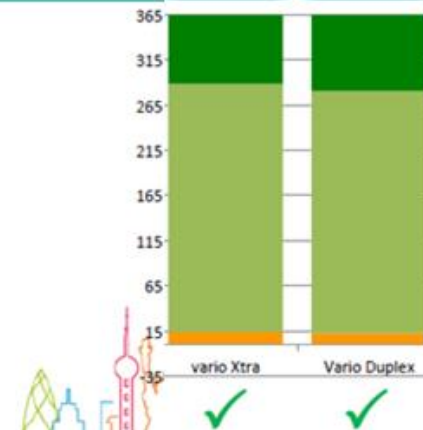
Air infiltration in the building

$n_{50}=2.21\text{vol/h}$



RÉSULTATS

	Membrane Vario Xtra	Membrane Vario Duplex
Désorption	76 jours	85 jours
Sans risque	274 jours	268 jours
Condensation	0 jour	0 jour



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Moisture management performances

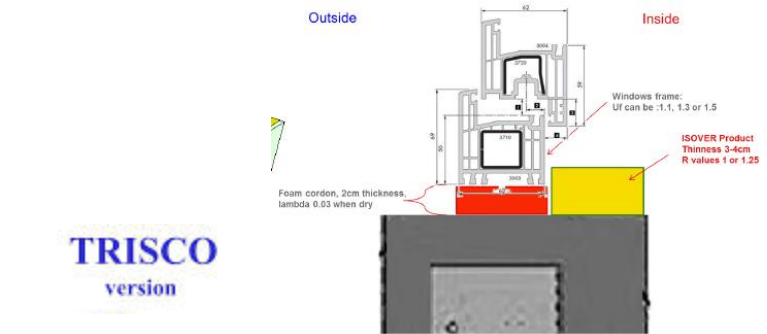
Annalise of the windows reveals

Trisco 12

Windows frames: U values: 1.1; 1.3; 1.5

Climatic regions

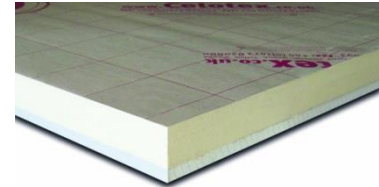
Temp ext	U=1,1	
	R=1	R=1,25
-12	66%	66%
-15	63%	63%
-18	60%	60%
-21	58%	58%



TRISCO
version



Zone	Te
Zone I	-12°C
Zone II	-15°C
Zone III	-18°C
Zone IV	-21°C



Isover solution: Celotex
product PIR + Plaster
board 37mm thickness

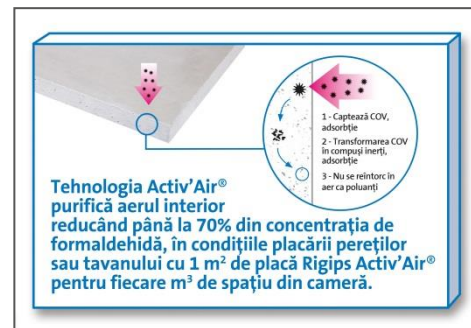
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Air quality

Using Rigips Activ'Air®

Actively cleaning air by removing VOC compounds



Thank you !