# WRAF

# CONNECTOR FOR TIMBER-INSULATING LAYER-CEMENT WALLS

#### TIMBER-INSULATING LAYER-CEMENT ENVELOPE

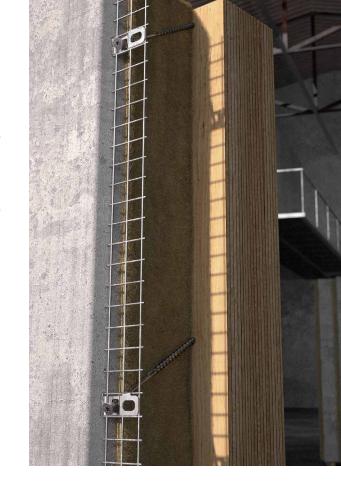
Designed for binding the cement finishing layer with the timber substructure of prefabricated timber-insulating layer-cement envelope walls.

#### REDUCED CEMENT LAYER

The omega shape of the connector allows the screw head to fit flush with the reinforcement of the cement layer without protruding, even in small thickness (up to 20 mm), and allows the screw to be applied at an angle of 0° to 45° to take full advantage of the screw thread withdrawal resistance.

#### LIFTING OF PREFABRICATED WALLS

Allowing the reduction of the cement finishing layer also results in a reduction of the layer's weight, thus returning the centre of gravity of the weight to the timber during handling and transport of the prefabricated walls.







#### MATERIAL



A2 | AISI304 austenitic stainless steel (CRC II)



polypropylene



# FIELDS OF USE

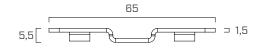
- lightweight frame substructures
- timber, LVL, CLT, NLT based panel substructures
- hard and soft insulation layer
- cement-based finishing layers (plaster, concrete, lightweight concrete, etc.)
- metal reinforcements (electrowelded mesh)
- plastic reinforcements

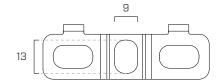
### CODES AND DIMENSIONS



CODE	material	pcs
WRAF	A2   AISI304	50
WRAFPP	polypropylene	50

## GEOMETRY

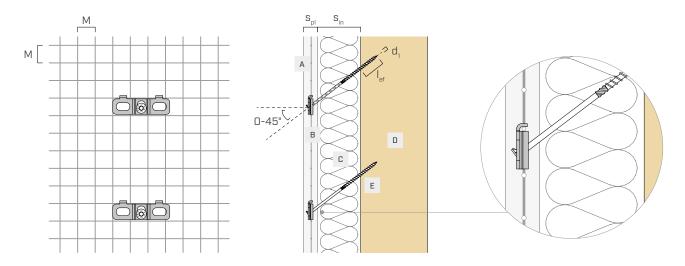






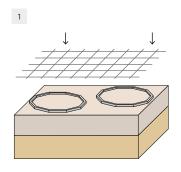
## INSTALLATION PARAMETERS

A FINISH	plaster, concrete, lightweight concrete, cement mortar	S <sub>pl,min</sub>	[mm]	20	minimum thickness
B GRID	Ø2 mm steel	М	[mm]	20 ÷ 30	mesh size
C INSULATION LAYER	continuous insulation (soft or rigid)	S <sub>in,max</sub>	[mm]	400	thickness
□ SUBSTRUCTURE	solid timber, glulam, CLT, LVL	l <sub>ef,min</sub>	[mm]	4·d <sub>1</sub>	minimum penetration length
E SCREWS	HBS, HBS EVO, SCI	d <sub>1</sub>	[mm]	6 ÷ 8	diameter

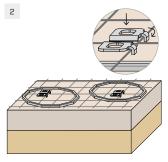


NOTE: The number and position of the fastening systems depends on the design of the surface, the kind of insulator and acting load.

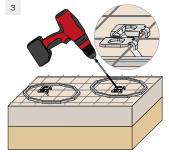
## INSTALLATION SUGGESTIONS



Place the mesh for the surface finishing layer on top of the insulation, spacing it with the appropriate supports.



Apply the WRAF washers according to the defined arrangement, hooking it onto the net.



Fasten WRAF washers with screws Apply the finishing coat to the wall. to the substructure.

