

TRUTEK TIF – PINS FOR DYNAMIC INSTALLATION OF INSULATION BOARDS

Usage:

- dowels with a 60mm diameter plate are intended for fixing hard insulation boards, e.g. expanded polystyrene Styrofoam
- dowels with a diameter of 90mm are intended for fixing soft mineral wool insulation boards
- fixing thermal insulation boards in solid materials such as concrete, silicate block and solid brick

Advantages:

- quick assembly without drilling holes
- no requirement for electric for installation of pins to insulation panels
- dowel deposition using a gas nailer is a capacity of approx. 1000 seats per 1 gas load
- excellent insulating qualities with a flap closing the inside of the dowel



Method for marking TIF pins

Trutek Insulation Fastener	Disc plate size d [mm]	Insulation thickness or stud length L [mm]
TIF	60	080



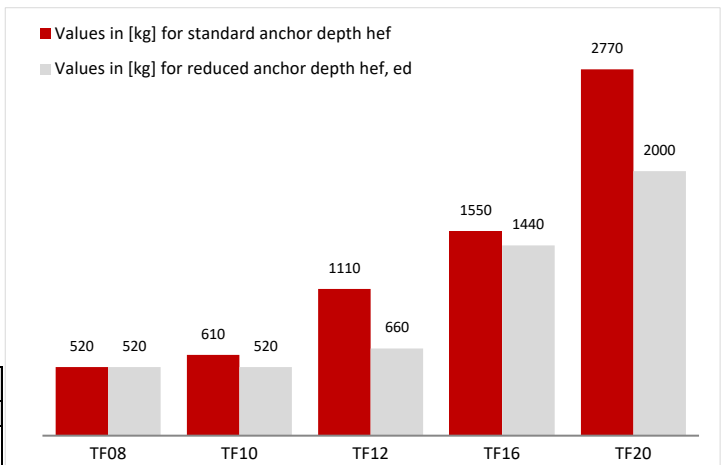
Pin Material:

TIF pins are made of PE-HD polyethylene and nails made of carbon steel No. 1065 hardened HRC56-59 and are covered with a layer of zinc not less than 5µm thick

Substrate material:

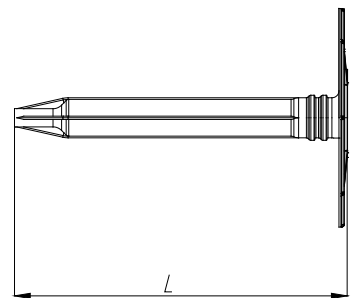
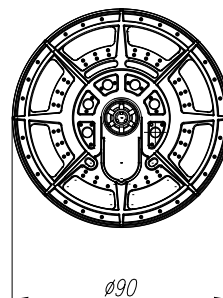
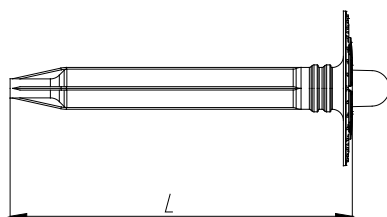
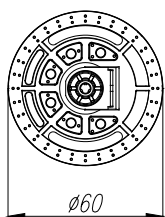
Concrete class min. C20 / 25 to C50 / 60, silicate blocks, solid brick

Design load capacity for pulling out of concrete C20 / 25 in kg



Technical parameters of the TIF60 and TIF90 pins

Product Code	Substrate material	Insulation material	Pin color	Disc/Plate diameter	Insulation thickness	Nail diameter and length	Effective nail depth	Pin length
				d [mm]	t _{fix} [mm]	d _g x L _{g,red} [mm]	h _{ef} [mm]	L [mm]
TIF60080	concrete block silicate full brick	expanded polystyrene styrofoam	white	60	80	stepped nail 3,2/3,7x52	18-25	75
TIF60100					100			95
TIF60120					120			115
TIF60140					140			135
TIF60150					150			145
TIF60160					160			155
TIF60180					180			175
TIF60200					200			195
TIF90080	concrete block silicate full brick	mineral wool	black	90	80	stepped nail 3,2/3,7x52	18-25	80
TIF90100					100			100
TIF90120					120			120
TIF90140					140			140
TIF90150					150			150
TIF90160					160			160
TIF90180					180			180
TIF90200					200			200

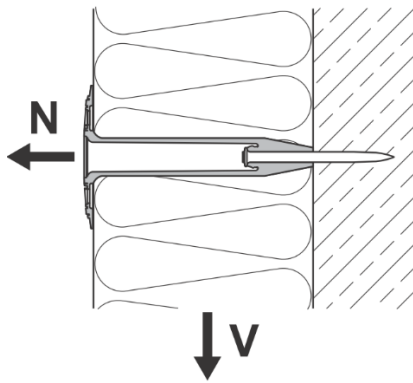


Recommended load capacities for TIF dowels in concrete class min. C20 / 25

Connector designation	TIF
Effective embedment depth h_{ef} [mm]	18-25
Recommended pull-out load capacity N_{rec} [kN]	0,3
Recommended shear capacity V_{rec} [kN]	0,3
Stud spacing S_{min} [mm]	75
Distance from the edge C_{min} [mm]	75
Recommended number of pins on $1m^2$ [szt/ m^2]	4
Minimal substrate thickness s_{min} [mm]	100
Type TRUTEK gas nailer	TGT IS200 or LV600M*

* the LV600M fastener should be equipped with a guide for LV60017 insulation pins, the maximum length of the pin can be mounted with LV600M with a guide for insulation pins is 160mm. The entire European Technical Assessment ETA should be considered when designing

Diagram of fixing TIF pins



Installation diagram of TIF anchors

