

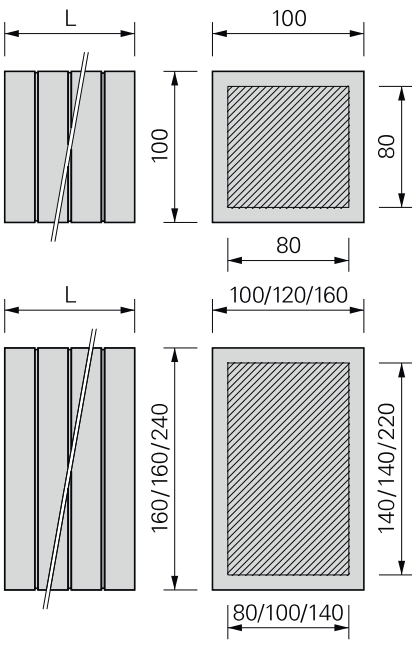
Beschrijving

Montageblokken VARIQ® en VARIR® zijn gemaakt van EPS met een hoge dichtheid. Het allround 20 mm rooster geeft de exacte zaagsnede aan. Ze zijn verkrijgbaar in vier maten.

Description

Fixation ashlars VARIQ® and VARIR® are made of EPS with a high volumetric weight. The all-round 20 mm pitch pattern specifies the saw groove. They are available in four sizes.

Afmeting / Dimensions



Afmeting

Afmetingen groot: 100 x 100 / 160 x 100 mm
 160 x 120 / 240 x 160 mm
 Oppervlakte: 80 x 80 / 140 x 80 mm
 140 x 100 / 220 x 140 mm
 Lange L: 1000 mm
 dichtheid: 140 kg/m³

Dimensions

Sizes: 100 x 100 / 160 x 100 mm
 160 x 120 / 240 x 160 mm
 Useable surface areas: 80 x 80 / 140 x 80 mm
 140 x 100 / 220 x 140 mm
 Length L: 1000 mm
 Volumetric weight: 140 kg/m³

Toepassing

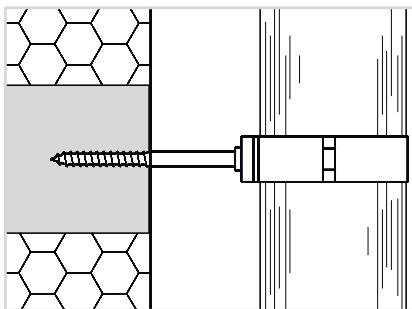
Bevestigingsashlars VARIQ® en VARIR® zijn geschikt voor de thermische brugvrije montage in composietsystemen voor thermische isolatie van geëxpandeerd polystyreen (EPS) en steenwol (SW). Verder kunnen ze ook worden gebruikt als drukkussens voor middelzware ladingen. Houtschroeven of plaatschroeven zijn geschikt voor fixatie ashlars VARIQ® en VARIR® evenals die met cilindrische schroefdraden en grote gradiënten (frameschroeven)

Applications

Fixation ashlars VARIQ® and VARIR® are suitable for thermal bridge-free mounting in thermal insulation composite systems of expanded polystyrene (EPS) and rock wool (SW). Furthermore, they may also be used as pressure pads for medium-heavy loads. Wood screws or sheet metal screws are suitable for fixation ashlars VARIQ® and VARIR®, as well as those with cylindrical threads and large gradients (frame screws).

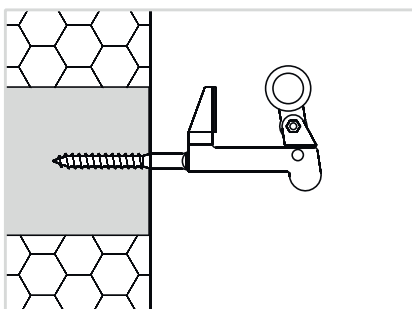
Externe installatie zonder koudebruggen is mogelijk, b.v. bij:

Thermal bridge-free mounting are possible, e.g. by



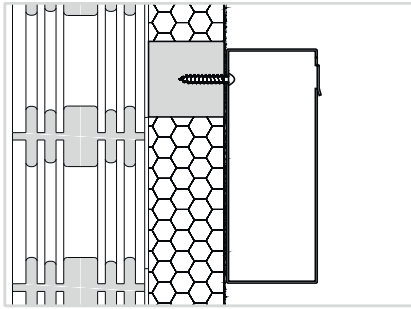
Buisklemmen met houten draad voor dakafvoer

Pipe clamps with wooden thread for rain-water downpipes



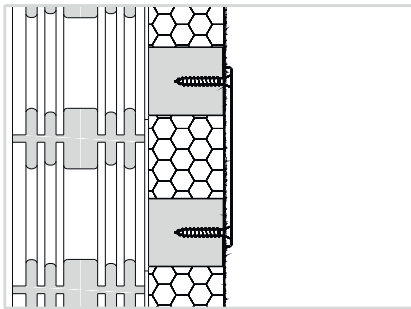
Pal en sjerp met houten draad voor luiken

Retainer and shutter catch with wooden thread for window shutters



Brievensbus

Mailboxes



Billboards

Advertising signs

Eigenschappen

Brandgedrag volgens DIN 4102:

B2

Warmteoverdracht

Thermische geleidbaarheid λ
(nominale waarde):

0.047 W/mK

Punctuele warmteoverdrachtscoëfficiënt
 X [W / K] gebaseerd op het EOTA
technisch rapport TR 025

Characteristics

Fire behaviour according to DIN 4102:

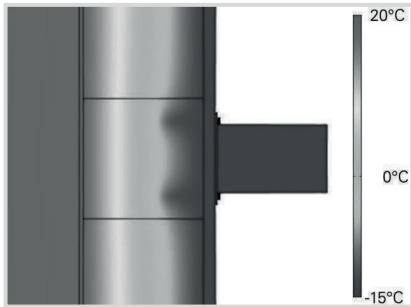
B2

Heat transfer

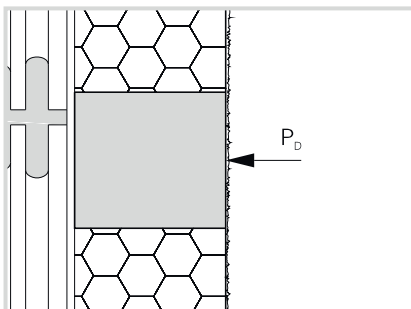
Thermal conductivity λ
(measurement value):

0.047 W/mK

Point-like overall coefficient of heat transfer
 χ [W/K] following the EOTA Technical
Report TR 025



D mm	60	80	100	120	140	160	180	200	220	240	260	280	300
100 x 100	6.10	4.61	3.43	2.53	1.86	1.40	1.10	0.93	0.84	0.80	0.77	0.72	0.60
160 x 100	8.40	5.62	4.22	3.14	2.35	1.80	1.44	1.24	1.14	1.10	1.08	1.03	0.90
160 x 120	8.70	6.86	5.34	4.11	3.14	2.40	1.86	1.50	1.28	1.17	1.20	1.16	1.20
240 x 160	12.1	9.86	7.96	6.36	5.05	4.00	3.19	2.60	2.20	2.10	2.10	2.10	2.10



Aanbevolen werklust drukkracht P_D op hele kubusvormige gebieden

100 x 100 mm:

1.00 kN

160 x 100 mm:

1.60 kN

160 x 120 mm:

1.90 kN

240 x 160 mm:

3.80 kN

Recommended use load compressive force P_D on complete ashlar surface

100 x 100 mm:

1.00 kN

160 x 100 mm:

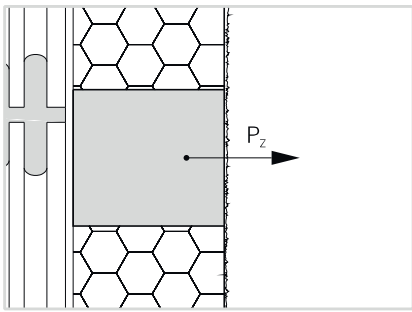
1.60 kN

160 x 120 mm:

1.90 kN

240 x 160 mm:

3.80 kN



Aanbevolen werklust trekkraft P_z

op correct ingestelde bevestigingsassen
 VARIQ® 100 x 100 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.20 kN
 SW-Insulation boards 48 kg/m³ 0.13 kN

op correct ingestelde bevestigingsassen
 VARIR® 160 x 100 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.25 kN
 SW-Insulation boards 48 kg/m³ 0.17 kN

op correct ingestelde bevestigingsassen
 VARIR® 160 x 120 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.25 kN
 SW-Insulation boards 48 kg/m³ 0.17 kN

op correct ingestelde bevestigingsassen
 VARIR® 240 x 160 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.25 kN
 SW-Insulation boards 48 kg/m³ 0.17 kN

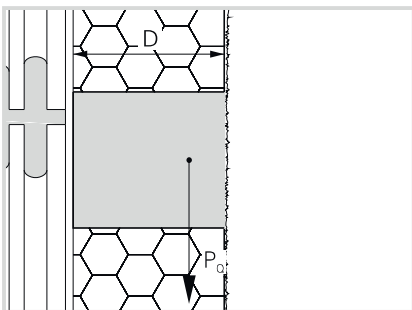
Recommended use load tensile force P_z

on properly set fixation ashlars
 VARIQ® 100 x 100 mm in
 EPS-Insulation boards 15 kg/m³: 0.20 kN
 SW-Insulation boards 48 kg/m³: 0.13 kN

on properly set fixation ashlars
 VARIR® 160 x 100 mm in
 EPS-Insulation boards 15 kg/m³: 0.25 kN
 SW-Insulation boards 48 kg/m³: 0.17 kN

on properly set fixation ashlars
 VARIR® 160 x 120 mm in
 EPS-Insulation boards 15 kg/m³: 0.25 kN
 SW-Insulation boards 48 kg/m³: 0.17 kN

on properly set fixation ashlars
 VARIR® 240 x 160 mm in
 EPS-Insulation boards 15 kg/m³: 0.25 kN
 SW-Insulation boards 48 kg/m³: 0.17 kN



Aanbevolen gebruik belasting dwarskracht P_o

op correct ingestelde bevestigingsassen
 VARIQ® 100 x 100 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.25 kN
 SW-Insulation boards 48 kg/m³ 0.17 kN

op correct ingestelde bevestigingsassen
 VARIR® 160 x 100 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.30 kN
 SW-Insulation boards 48 kg/m³ 0.20 kN

op correct ingestelde bevestigingsassen
 VARIR® 160 x 120 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.30 kN
 SW-Insulation boards 48 kg/m³ 0.20 kN

op correct ingestelde bevestigingsassen
 VARIR® 240 x 160 mm in
 in EPS-isolatieplaten 15 kg/m³ 0.30 kN
 SW-Insulation boards 48 kg/m³ 0.20 kN

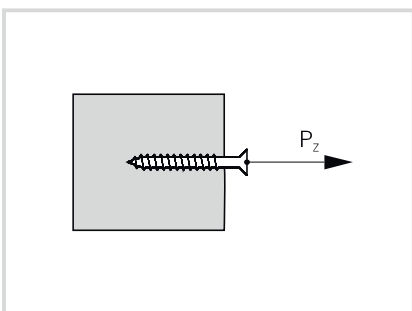
Recommended use load transverse force P_o

on properly set fixation ashlars
 VARIQ® 100 x 100 mm in
 EPS-Insulation boards 15 kg/m³: 0.25 kN
 SW-Insulation boards 48 kg/m³: 0.17 kN

on properly set fixation ashlars
 VARIR® 160 x 100 mm in
 EPS-Insulation boards 15 kg/m³: 0.30 kN
 SW-Insulation boards 48 kg/m³: 0.20 kN

on properly set fixation ashlars
 VARIR® 160 x 120 mm in
 EPS-Insulation boards 15 kg/m³: 0.30 kN
 SW-Insulation boards 48 kg/m³: 0.20 kN

on properly set fixation ashlars
 VARIR® 240 x 160 mm in
 EPS-Insulation boards 15 kg/m³: 0.30 kN
 SW-Insulation boards 48 kg/m³: 0.20 kN



Aanbevolen werklust trekkraft op schroefverbinding P_z

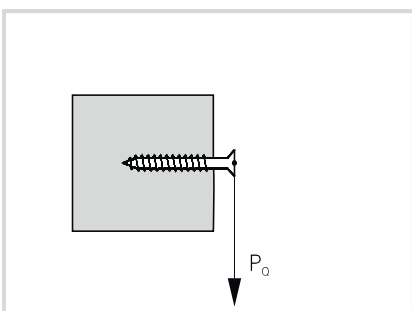
per schroef: 0.25 kN

Waarden zijn gebaseerd op
 Schroef diameter: 7 mm
 Diepte instellen: 60 mm

Recommended use load tensile force P_z on screw attachments

per screw: 0.25 kN

Values based on
 Screw diameter: 7 mm
 Set depth: 60 mm



Aanbevolen werkbelasting schuifkracht P_o op schroefverbinding

per schroef: 0.12 kN

Waarden zijn gebaseerd op
 Schroef diameter: 7 mm
 Diepte instellen: 60 mm

Recommended use load transverse force P_o on screw attachments

per screw: 0.12kN

Values based on
 Screw diameter: 7 mm
 Set depth: 60 mm

Anforderung für maximale Belastbarkeit

Die maximale Belastbarkeit der Montagequader VARIQ® und VARIR® setzt deren einwandfreien Einbau im Wärmedämmverbundsystem voraus. Die Vorgaben des Systemlieferanten sowie die fachgerechte Ausführung des Wärmedämmverbundsystems sind einzuhalten.

Zudem müssen die Montagequader VARIQ® und VARIR® einen Mindestrandabstand von 250 mm und untereinander einen Mindestachsabstand von 500 mm in allen Richtungen aufweisen. Montagequader VARIQ® und VARIR® mit kleineren Achsabständen sind als Gruppe zu betrachten und es sind die Einzelwerte eines Montagequaders VARIQ® oder VARIR® zu verwenden. Jeder Montagequader VARIQ® oder VARIR® darf nur einer Gruppe zugeordnet werden. In begründeten Fällen können die Mindestwerte der Rand- und Achsabstände reduziert werden.

Die angegebenen Lastwerte gelten für eine Beanspruchung in die entsprechende Belastungsrichtung. Bei kombinierten Beanspruchungen (Schrägzug) ist die Interaktion der Zug- und Querkraftbelastung nachzuweisen.

Weitere Anforderungen siehe Allgemeine Bestimmungen.

Montage

Montagequader VARIQ® und VARIR® können mit handelsüblichen Beschichtungsmaterialien für Wärmedämmverbundsysteme ohne Voranstrich beschichtet werden.

Anbauteile können auf die Putzbeschichtung montiert werden.

In diesem Fall muss die Beschichtung den Druckkräften, welche durch das Anbauteil entstehen, standhalten.

Verschraubungen in die Montagequader VARIQ® und VARIR® sind nur für leichte, nicht bewegliche Lasten erlaubt. Schwere Lasten müssen im Untergrund verankert werden.

Für die Verschraubung in die Montagequader VARIQ® und VARIR® eignen sich Holz- oder Blechschrauben, sowie solche mit zylindrischem Gewinde und grosser Steigung (Rahmenschrauben).

Verschraubungen dürfen nur in die dafür vorgesehenen Nutzflächen erfolgen.

Weitere Angaben zur Montage sind auf unserer Webseite publiziert.

Requirement for maximum load-bearing capacity

The maximum load-bearing capacity of the fixation ashlar VARIQ® and VARIR® assumes proper installation in the thermal insulation system. The specifications of the system suppliers and the proper execution of the thermal insulation composite system are to be followed.

In addition, the fixation ashlar VARIQ® and VARIR® must have a minimum margin distance of 250 mm and minimum axis distance from each other of 500 mm in all directions. Fixation ashlar VARIQ® and VARIR® with a smaller axis distance must be regarded as a group and the individual values of a fixation ashlar VARIQ® or VARIR® should be used. Each fixation ashlar VARIQ® or VARIR® may only be assigned to one group. When justified, the minimum values of the margin and axis distances can be reduced.

The specified load values are valid for a load in the corresponding load direction. For combined loads (diagonal tension), the interaction of the tension and lateral load must be determined.

For further requirements, see the general provisions.

Assembly

Fixation ashlar VARIQ® and VARIR® may be coated with usual coating materials for thermal insulation composite systems without primer.

Attachments can be mounted on the plaster coating.

In this case, the coating must withstand the compressive forces generated by the attachment.

Screw fittings for mounting the fixation ashlar VARIQ® and VARIR® are only permissible for light, non-moving loads. Heavy loads have to be anchored in the underground.

Wood screws or sheet metal screws are suitable for fixation ashlar VARIQ® and VARIR®, as well as those with cylindrical threads and large gradients (frame screws).

Screws may only be in the useful surface areas provided.

Further information on assembly is published on our website.