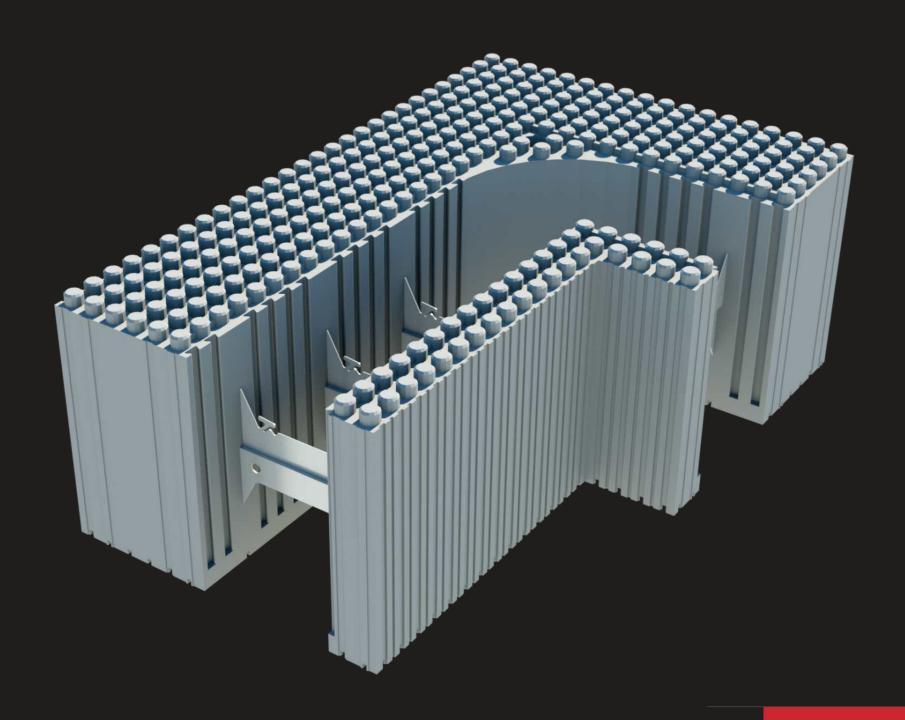


THE BLOCK

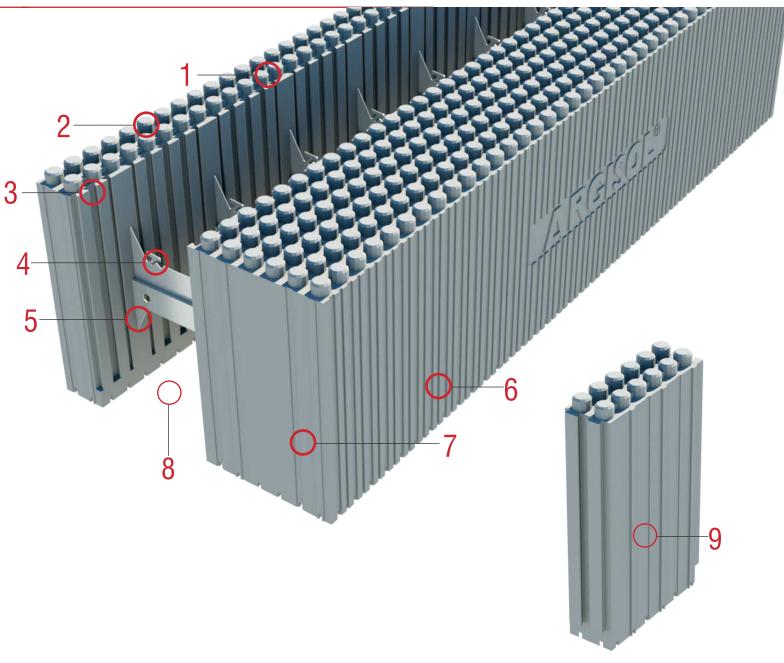


Innovation for the Future of **Modern Building Wall**



The ARGISOL® - Standard Element

- Sealing ribs prevent cement milk from leaking out and therefore eliminate the danger of thermal bridges
- 2. Nubs at a short distance permit aligned and exact fitting
- 3. Dove tail shaped inner surface provides perfect bonding to concrete
- 4. Spacer supports for reinforcing bars
- 5. Sheet metal inserts are precisely fused into the NEOPOR®
- 6. Spacing grooves allow for easy trimming of the building blocks in grids of 2,5 cm
- Due to the different thickness of insulation excellent inside and outside performance from the point of view of construction physics
- 8. Filling material concrete C25/30 XC4 XF1 XA1 F3 8
- 9. Separation or end elements for insertion between the two NEOPOR® panels



Uncompromising Stability and Insulation in one Operation







Concreting...



Finish!

R

ARGISOL AFRICA

ARGISOL BUILDING SYSTEMS LTD
(Nigeria)
ARGISOL BUILDING SYSTEMS PTY LTD
(South Africa)

Production and Sale of ARGISOL®
Building Elements

ARGISOL® - International GmbH

TECHNICAL IMPLEMENTATION AND SUPPORT

Delivering Turnkey ARGISOL Manufacturing Solutions













Creative Planning with ARGISOL® Building Elements for Massive Construction Walls

Standard element wall system 25 cm

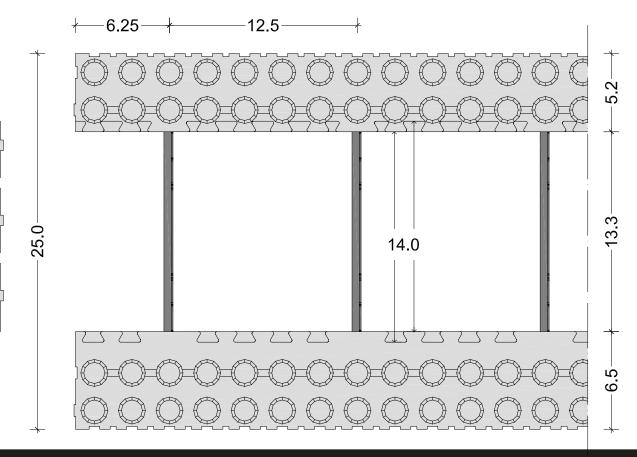
U-value: 0,27 W/m²K

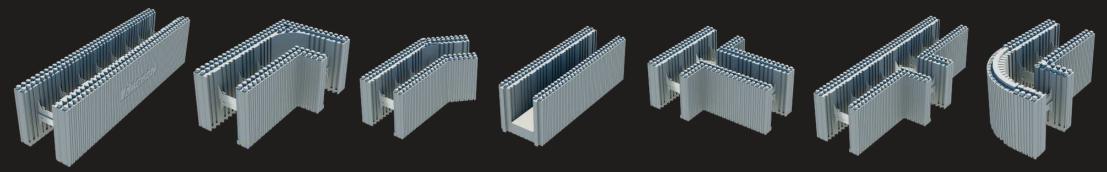
Our product range...

Wall system 25 cm

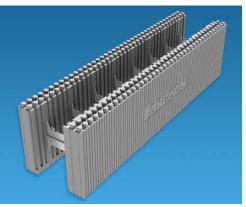
•	
 Standard element Height compensation element End element 	(100,0 x 25,0 x 25,0) (50,0 x 5,0 x 5,0) (14,0 x 5,0 x 25,0)
4. ARGISOL dowel5. T-element	(50,0 x 62,5 x 25,0)
 6. Angle element 45° 7. Corner element 8. Rounded corner element 9. End profile for ceilings 6. Single boards 	(100,0 x 37,5 x 25,0) (50,0 x 25,0 x 25,0) (60,0 x 35,0 x 25,0) (60,0 x 35,0 x 25,0) (75,0 x 10,0 x 20,0)
0. Single boards inside outside1. Lintel element	(100,0 x 4,5 x 25,0) (100,0 x 6,5 x 25,0) (75,0 x 25,0 x 25,0)

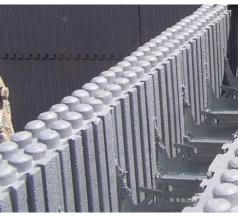
Length x width x heights (all measurements in cm)



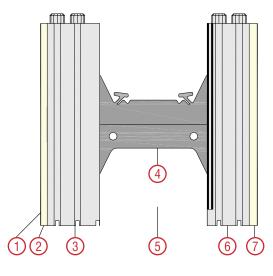


Technical Specifications ARGISOL®-Element 28









- 1. Plastering /Synthetic resin plaster 3 mm
- 2. Reinforcement or insulation plaster 5 7 mm
- 3. NEOPOR® exterior shell 65 mm
- 4. Sheet metal insert
- 5. Concrete core 133 mm
- 6. NEOPOR® inner shell 52 mm
- 7. Interior plaster 10 mm

Thickness of the wall: 25 cm, not rendered

Weight of the wall: 330 kg/m², not rendered

360 kg/m², rendered both sides

Amount of concrete: 140 l/m² (0,14 m³/m²) wall space

Concrete C25/30 XC4 XF1 XA1 F3 8

according to EN 206 (formerly B25/08 KR)

Material: Expandable polystyrol rigid foam board made from

NEOPOR®, flame resistant, specific gravity 30 kg/m³

with laid in galvanized metal bars

Weight of Standard element 25 cm:

building elements: 1 m long, 25 cm high, 25 cm wide, approximately 1,3 kg

U-Value: $U = 0.27 \text{ W/m}^2\text{K}$

Thermal conductivity: $\lambda = 0.031 \text{ W/mK}$

Water vapor diffusion

resistance coefficient: $\mu = 60$

Heat storage capacity: 1500 J/kgK

Sound absorption: Proven sound absorption parameter for buildings of

R'W = 45 dB, Test certificate of the Swiss Federal Laboratories for Materials Science and Technology

(EMPA) in Dübendorf

Reaction to fire: Classification REI 90 (F90),

Licensed for high-rise building levels, licensed to be used as a fire wall, certified by the Material Testing Office for the Building Industry, Braunschweig

Authorization: ETA - 05/0170, German Institute for Construction

Technology (DIBt)

Creative Planning with ARGISOL® Building Elements for Massive Construction Walls

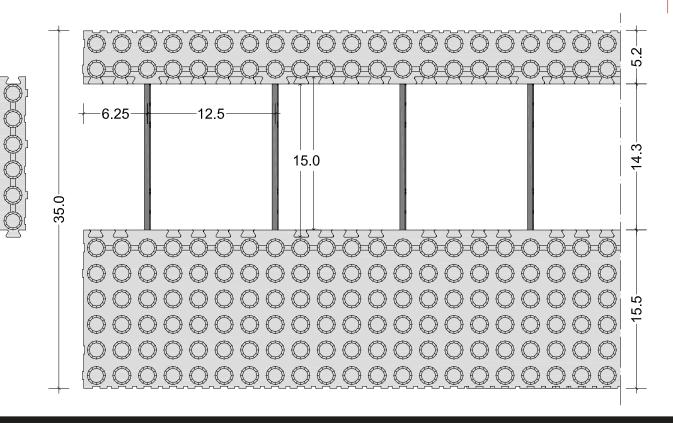


Wall system 35 cm

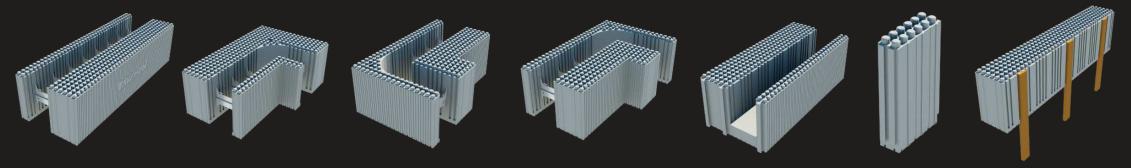
 Standard element 	(100,0 x 35,0 x 25,0)
2. Corner element	(70,0 x 45,0 x 25,0)
3. Internal corner element	(70,0 x 45,0 x 25,0)
4. Lintel element	(75,0 x 35,0 x 25,0)
5. End element	$(15,0 \times 5,0 \times 25,0)$
6. Single board outside	(100,0 x 15,5 x 25,0)

Length x width x height (all measurements in cm)

Standard element wall system 35 cm

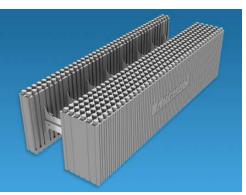


U-value: 0,15 W/m²K



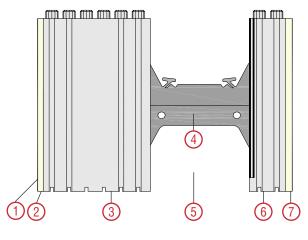
10 Copyright © ARGISOL®

Technical Specifications ARGISOL®-Element 38









- 1. Plastering /Synthetic resin plaster 3 mm
- 2. Reinforcement or insulation plaster 5 7 mm
- 3. NEOPOR® exterior shell 155 mm
- 4. Sheet metal insert
- 5. Concrete core 143 mm
- 6. NEOPOR® inner shell 52 mm
- 7. Interior plaster 10 mm

Thickness of the wall: 35 cm, not rendered

Weight of the wall: 350 kg/m², not rendered

380 kg/m², rendered both sides

Amount of concrete: 150 l/m² (0,15 m³/m²) wall space

Concrete C25/30 XC4 XF1 XA1 F3 8

according to EN 206 (formerly B25/08 KR)

Material: Expandable polystyrol rigid foam board made from

NEOPOR®, flame resistant, specific gravity 30 kg/m³

with laid in galvanized metal bars

Weight of Standard element 35 cm:

building elements: 1 m long, 25 cm high, 35 cm wide, approximately 2,1 kg

U-Value: $U = 0.15 \text{ W/m}^2\text{K}$

Thermal conductivity: $\lambda = 0.031 \text{ W/mK}$

Water vapor diffusion

resistance coefficient: $\mu = 60$

Heat storage capacity: 1500 J/kgK

Sound absorption: Proven sound absorption parameter for buildings of

R'W = 45 dB, Test certificate of the Swiss Federal Laboratories for Materials Science and Technology

(EMPA) in Dübendorf

Reaction to fire: Classification REI 90 (F90),

Licensed for high-rise building levels, licensed to be used as a fire wall, certified by the Material Testing Office for the Building Industry, Braunschweig

Authorization: ETA - 05/0170, German Institute for Construction

Technology (DIBt)

Creative Planning with ARGISOL® Building Elements for Massive Construction Walls



Wall system 45 cm

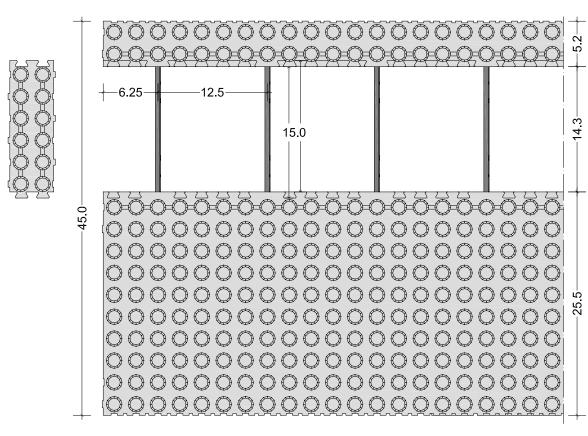
 Standard element 	(100,0 x 45,0 x 25,0)
2. Corner element	(70,0 x 55,0 x 25,0)
3. Internal corner element	(70,0 x 55,0 x 25,0)

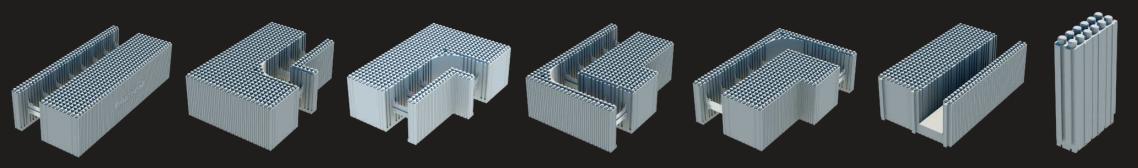
4. Lintel element (75,0 x 45,0 x 25,0)

5. End element $(15,0 \times 5,0 \times 25,0)$

Length x width x height (all measurements in cm)

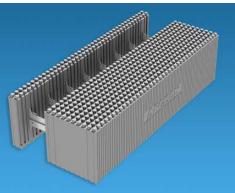
Standard element wall system 45 cm *U-value: 0,10 W/m²K*





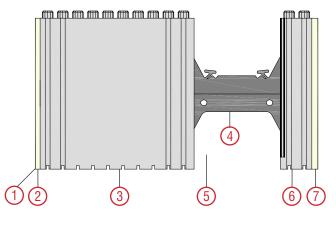
12 Copyright © ARGISOL®

Technical Specifications ARGISOL®-Element 48









- 1. Plastering /Synthetic resin plaster 3 mm
- 2. Reinforcement or insulation plaster 5 7 mm
- 3. NEOPOR® exterior shell 255 mm
- 4. Sheet metal insert
- 5. Concrete core 143 mm
- 6. NEOPOR® inner shell 52 mm
- 7. Interior plaster 10 mm

Thickness of the wall: 45 cm, not rendered

Weight of the wall: 360 kg/m², not rendered

390 kg/m², rendered both sides

Amount of concrete: 150 l/m² (0,15 m³/m²) wall space

Concrete C25/30 XC4 XF1 XA1 F3 8

according to EN 206 (formerly B25/08 KR)

Material: Expandable polystyrol rigid foam board made from

NEOPOR®, flame resistant, specific gravity 30 kg/m³

with laid in galvanized metal bars

Weight of Standard element 45 cm:

building elements: 1 m long, 25 cm high, 45 cm wide, approximately 2,8 kg

U-Value: $U = 0.10 \text{ W/m}^2\text{K}$

Thermal conductivity: $\lambda = 0.031 \text{ W/mK}$

Water vapor diffusion

resistance coefficient: $\mu = 60$

Heat storage capacity: 1500 J/kgK

Sound absorption: Proven sound absorption parameter for buildings of

R'W = 45 dB, Test certificate of the Swiss Federal Laboratories for Materials Science and Technology

(EMPA) in Dübendorf

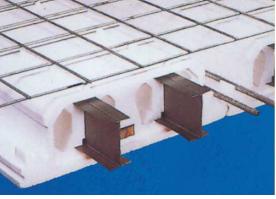
Reaction to fire: Classification REI 90 (F90),

Licensed for high-rise building levels, licensed to be used as a fire wall, certified by the Material Testing Office for the Building Industry, Braunschweig

Authorization: ETA - 05/0170, German Institute for Construction

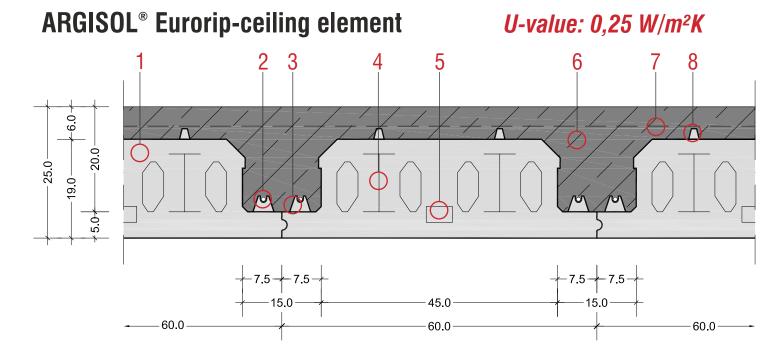
Technology (DIBt)

ARGISOL® Eurorip-Ceiling Element









- 1. ARGISOL®-Eurorip-ceiling element (shuttering body)
- 2. Rib reinforcement according to static calculations
- 3. Spacers for reinforcement rib
- 4. Double I-beam made of sheet steel
- 5. Insertion option for wooden slats
- 6. in-situ concrete C25/30 XC4 XF1, rule consistency, granulation 0/08
- 7. Transverse reinforcement according to Eurocode 2
- 8. Spacer for mesh reinforcement



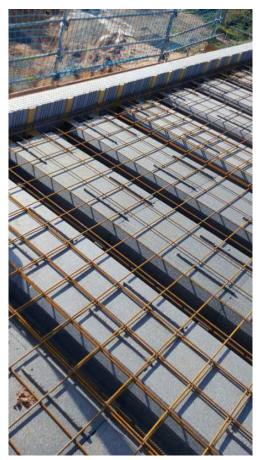
Technical Specifications ARGISOL®-Ceiling



- Ribbed slab according to Eurocode 2: Carrying capacity of the ceiling by individual reinforcement of the ribs and the plate
- Underside of the ceiling surface can be plastered or smoothed over.
- Easiest possible assembly of coverings and wooden ceilings by inserting roof slats from the side of the building
- It takes just 1 minute to put up one sqm (two people), thus making it the fastest ever ceiling to put up.







From static point of view, ARGISOL® Eurorip-ceiling element are permanent shutterings of rib ceilings according to Eurocode 2.

Widths/elements: 60 cm

Heights/elements: 19 cm (without covering concrete slab)

Lengths/elements: Factory tailored to building or room dimensions.

Rule length 6,00 m; Special lengths possible

Rib height: 20 cm

Rib width: 15 cm

Weight/element: ca. 4,8 kg/lfm

Material/element: Polystyrene rigid foam, flame resistant,

volumetric weight 22 kg/m³

Material/double-T plates: ST 52 d = 1 mm

Self-bearing capacity

during assembly: (incl. 6 cm concrete cover and man load) max. 3,00 m

Concrete needs at 6 cm

concrete cover: 95 l/m² (0,095 m³/m²)

Concrete quality: Concrete C25/30 XC4 XF1 XA1 F3 8

according to EN 206 (formerly B25/08 KR)

Steel quality: Rib reinforcement BST 420/500

Slab reinforcement BSTG 500/500

Board thickness

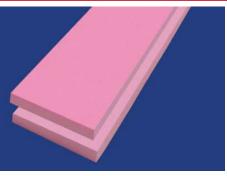
(with concrete cover): 6 cm or more according to static requirements

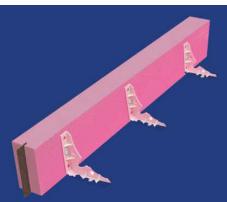
Fire protection: according to DIN 4102

Soundproofing: according to DIN 4109

Heat protection: according to DIN 4108

Thermo System - Base Plates Insulation Panelling







Thermo system floor element XPS 300

Insulation:

extruded polystyrene (XPS),

Thickness:

100-160 mm (other thicknesses on request); shiplap, smooth surface,

Compressibility:

300 kPa

(500 kPa + 700 kPa on request)

Floor element:

1250 x 600 mm

Thermo system edge board XPS 300

Insulation:

extruded polystyrene (XPS),

Thickness:

50/60/120 mm (other thicknesses on request); shiplap, honeycomb surface,

Compressibility:

300 kPa

(500 kPa + 700 kPa on request)

Element length:

1250 mm, three angle brackets per element pre-installed

Accessories:

speed screws for fastening on the bottom plate and plug springs for connecting the edge board



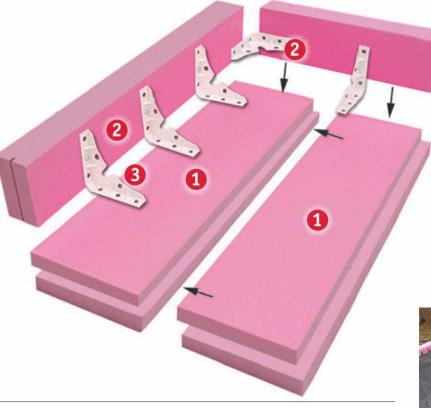




Floor element 10 cm: Edge board 12 cm: *U-value:* 0,339 W/m²K *U-value:* 0,285 W/m²K

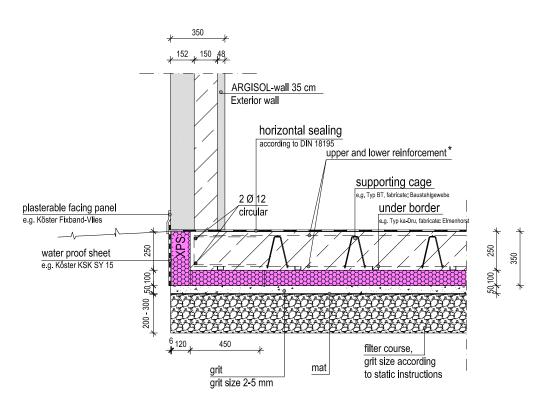
Assembling the base plate formwork

- 1 The floor elements with shiplap are assembled to complete the base plate
- 2 Edge boards with plug springs are placed and plugged together
- 3 Angle brackets and speed screws connecting the edge boards and floor elements securely to each other





Technical Specifications Base Plates Insulation Panelling







Base plates insulation panelling with $\text{ARGISOL}^{\$}\text{-}$ wallsystem 35 cm

- WITHOUT CELLAR -

Horizontal and vertical sealing of the bottom plate and the ARGISOL-wall are in accordance to DIN 18195!

The execution shall take place under control of the project management only and after evaluation of soil conditions.

The presentation given here does not apply to the execution actually required.

Insulation: extruded polystyrene (XPS), shiplap,

smooth surface (floor element) honeycomb surface (edge board)

Compressibility: 300 kPa (500 kPa + 700kPa on request)

Load capacity group: BG 30

Thermal conductivity: 0,035 W/mK (30 - 60 mm)

0,036 W/mK (70-120 mm) 0,038 W/mK (140-220 mm)

Minimum density: $\geq 30 \text{ kg/m}^3$

Compressive stress at 10%: $CS(10/Y) 300 \text{ kPa} = 30 \text{ t/m}^2$

Creep: (according to EN 1606 corresponding permissible continuous compressive

strength of 50 years)

CC(2/1,5/50) 130 kPa = 13 t/m²

Closed cells: ≥ 95 %

Modulus of elasticity: $12 \text{ N/mm}^2 = 12000 \text{ kPa}$

Capillary water absorption: 0

Water absorption by diffusion: WD(V)3 Vol.%

Freeze-thaw cycle resistance: FTCD 1

Flammability: B1

Smoke density class: Q3

Drop formation class: Tr1

Fire behavior EN 13501-1:

^{*} Type description for lower and upper reinforcement, such as cross section/dimension according to static instructions

Better Insulation with NEOPOR® - the New Silver-Grey Insulation Material by BASF

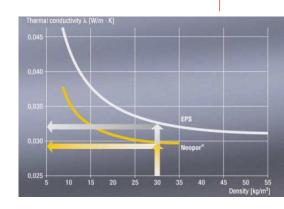
Benefits NEOPOR®

- up to 30% better insulating performance than conventional EPS
- proven high environmental efficiency and cost
- water repellent, non-aging and nonrotting, stable and dimensionally
- easy to use and processing



Better thermal conductivity

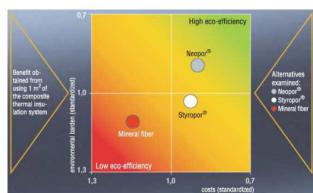
NEOPOR® - products with a foam density of 30 kg/m³ (like ARGISOL® shuttering elements) achieve a coefficient of thermal conductivity parameter of 0,029 W/mK. Using regular EPS with the same foam density a heat conduction parameter of only 0,032 W/mK is achieved.

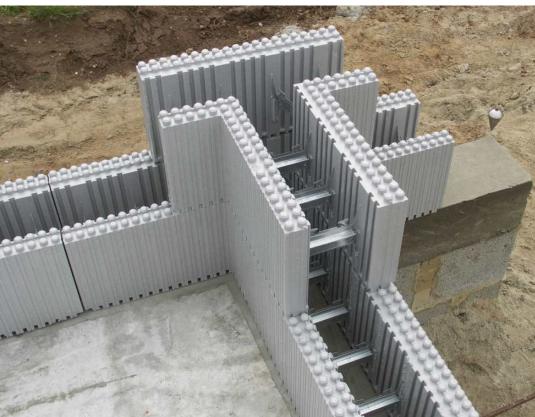




Building materials compared

Compared to alternative materials NEOPOR requires up to 50% less raw materials, which reduces cost as well as pollution. Using NEOPOR the same insulation performance is achieved by a reduced insulation thickness of 15-20%. According eco-efficient solutions achieve an upto-date thermal protection.







Copyright © ARGISOL® NEOPOR® = registered trademark of BASF SE

Building with ARGISOL® Represents a Sum of Convincing Advantages

1. Energy-conscious

Building in a traditional way means that high demands on heat protection can only be met by using additional

heat insulation. Using double-sided NEOPOR shuttering ARGISOL achieves an incredible **U-result of 0,15 W/m²K** (35 cm wall). With ARGISOL® you will always get a low-energy house.











2. Fast, easy, cost-efficient

One decisive advantage of skin concrete building are low wage costs: they are only 1/3 in comparison to traditional ways of building. To build with ARGISOL® is child's play: due to the nubs even a layman is able to build in a truly aligned and plump way. Futhermore, elements are very lightweight and therefore make heavy building work much easier. ARGISOL® shuttering elements can be set up and filled in shortest time compared to brick walls. Last but not least, the ARGISOL® building system is more cost-efficient than traditional ways of building.

3. Comfortable room atmosphere

By insulating the inside wall, the wall surface temperature differs only by 1° Celsius from the room temperature. As a result, there is hardly any air circulation caused by temperature differences in the room. Therefore a comfortable feeling is achieved at any season of the year, summer and winter alike.

Due to the solid concrete core a reliable sound absorption parameter of $Rw=45\ dB$ is achieved – a guarantee for quiet living.

4. Effective building

ARGISOL provides an optimum of heat and sound insulation although the wall thickness is only 25 cm. Your advantage, an increase in **living space!**2

With an assumed floor space of 100 m about 4,5 m space is gained in comparison to a 36,5 cm wall.

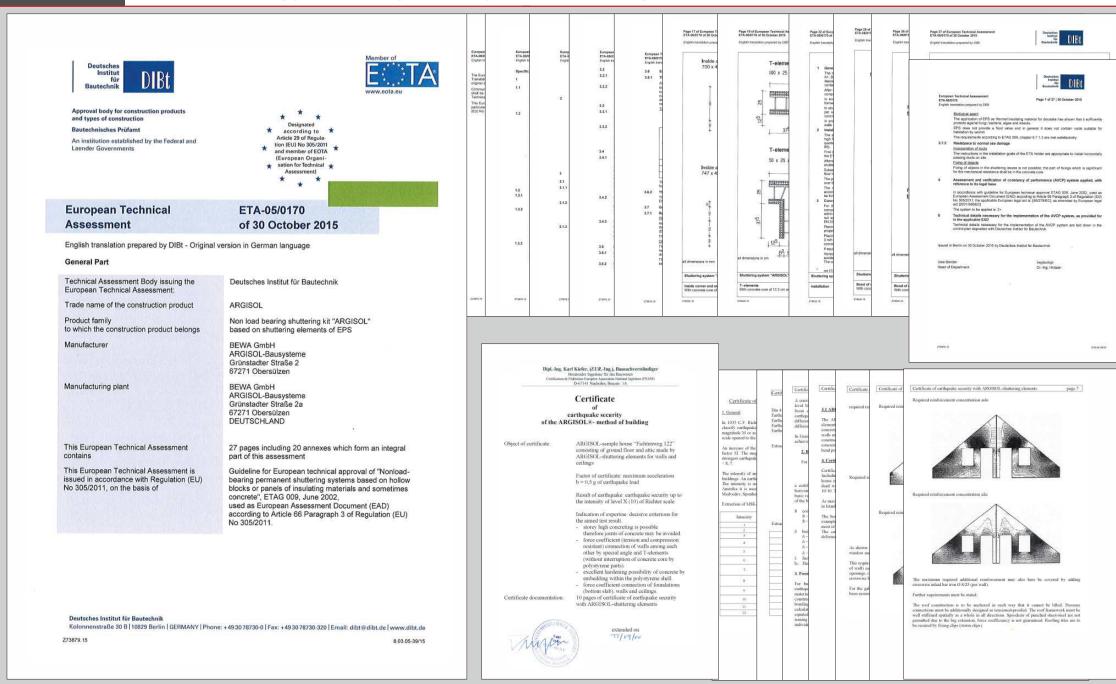
5. Creatively planning

ARGISOL building elements can be shortened in grids of 2,5 cm by a simple saw. The diversity of ARGISOL special elements (corner, angle and arched elements) allows realisation of any ground-plan.

6. Building for the future

The ARGISOL building system fulfills all demands, which are addressed nowadays to a recent construction material. Certification and inspection ereports confirm the technological superiority of the ARGISOL construction system.

ARGISOL® - Approvals, Expert's Report and Test Reports



ARGISOL® - Fire Protection

REMA ConbH ARGISOL-Bausysteme Grünstadter Straße 2 D-67271 Obersülzen

Letter 13615/2016

49 (5)631-361-8246

20/07/2016

Validity of the expert opinion no. 20245/2011 of 21/11/2011

Dear Sir/Madam.

In response to your query of 13/07/2016, we are writing to inform you that the statements relating to fire protection made in expert opinion no.20245/2011 of 21/11/2011 regar

designing load-bearing firewalls using prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel spacers in conjunction with a wall core made from reinforced concrete (in-situ concrete) based on DIN 4102-4: 1994-03 and in conjunction with DIN 4102-22 : 2004-11

are still valid.

As regards designing the load-bearing firewalls using prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel spacers in conjunction with a wall core made from reinforced concrete (in-situ concrete) in accordance with the boundary conditions laid out in expert opinion no. 20245/2011 of 21/11/2011, MPA Braunschweig recommends that this design continue to be evaluated as presenting "a non-essential deviation" from DIN 4102-4 : 1994-03 and in conjunction with DIN 4102-22 : 2004-11.

Expert opinion no. 20245/2011 of 21/11/2011 can therefore only be used together with DIN 4102-4 : 1994-03 in building authority procedures as a basis for a certificate of compliance.

Page 2 of 2 | Letter 13615/2016 of 20/07/2018



The manufacturer of the structure is responsible for issuing a certificate of compliance for it (indicating that it presents a "non-essential" deviation from the construction principles and boundary conditions in accordance with the abovementioned standard of fire protection).

Advisory opinion no. 20245/2011 of 21/11/2011 and this letter shall cease to be valid on 19/07/2021.

The period of validity of this expert opinion can be extended upon request and depending on the current level of technology.

This document is the translated version of Letter 2101/555/16 dated 20/07/2016 . The legally binding text is the aforementioned German Letter.

With kind, regards

Dipl.-Ing. S. Schmieder Deputy head of section

All bewarte Dipl.-Ing. M. Weingarten Official in charge

ARGISOL-Bausysteme Mr Hans-Jürgen Becker Grünstadter Straße 2

20245/2011

21/11/2011

Expert opinion on designing load-bearing firewalls using prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel apacers in conjunction with a wall core made from reinforced concrete (in-situ concrete) in compliance with DIN 4102-4: 1994-03 and in conjunction with DIN 4102-22: 2004-11

Dear Mr Becker.

MPA Braunschweig was commissioned by BEWA GmbH, Obersülzen, in writing on 20/10/2011 to provide an expert opinion on designing load-bearing firewalls using prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel spacers in conjunction with a wall core made from reinforced concrete (in-situ concrete) in compliance with DIN 4102-4: 1994-03 and in conjunction with DIN 4102-22 : 2004-11.

The expert opinion is required because proof of fire protection as a firewall (e.g. DIN 4102-4; 1994-03 in conjunction with DIN 4102-22; 2004-11) is not always given in all structural details for the abovementioned formwork walls.

1 Documents and basis for the expert opinion

The expert opinion for the load-bearing firewalls using prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel spacers in conjunction with a wall core made from reinforced concrete (in-situ concrete) is based on

- DIN 4102-4: 1994-03 in conjunction with DIN 4102-22: 2004-11 and

Page 2 of 4 | Letter 20245/2011 of 21/11/2011

European Technical Approval No. ETA-05/0170.

Alongside these documents, the fire protection evaluation also incorporates MPA Braunschweig's considerable testing experience in firewall structures reinforced concrete wall structures and formwork block structures.

IBMB MPA

2 Description of the structure

The following description is based on the information provided by the customer. Only the details that are relevant from a fire protection point of view are described below:

In contrast to DIN 4102-4; 1994-03, Section 4.8, standard concrete is used in accordance with DIN 1045-1 and in conjunction with an in-situ concrete reinforcement between prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel spacers.

Other details about the structural design of the wall structure made using prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel spacers in conjunction with a wall core made from reinforced concrete (in-situ concrete) can be found in European Technical Approval No. FTA-05/0170

3 Fire protection evaluation

Based on DIN 4102-4: 1994-03 and in conjunction with DIN 4102-22: 2004-11, European Technical Approval No. ETA-05/0170 and based on MPA Braunschweig's testing experience in firewall structures reinforced propertie well structures and formwork block structures the well structures described in Section 2 made using prefabricated formwork elements made from expanded polystyrene (EPS) with sheet steel spacers in conjunction with a wall core made from reinforced concrete (in-situ concrete) can be classified as a

"firewall" in accordance with DIN 4102-3; 1977-09-

because it compiles with the temperature-time curve (standardized), despite its deviations from DIN 4102-4: 1994-03

As regards the design of the wall structure described in Section 2, there is no reason from a fire protection point of view to believe that the criteria of

Loadbearing capacity



- 4.2 This expert opinion only applies to matters relating to fire protection. Further requirements e.g. building physics, statics, electrical engineering, ventilation engineering and similar - can be found in the technical building regulations applicable to the firewall and the relevant state building code or regulations for special structures.
- 4.3 The overall fire protection concept does not form a component of this expert opinion.
- 4.4 The abovementioned fire protection evaluation only applies if the load-bearing components have at least the same fire resistance time as the firewall.
- 4.5 Amendments and addenda to structural details (taken from this expert opinion) are only possible after consultation with MPA Braunschweig.
- 4.6 The executing company is solely responsible for proper implementation.
- 4.7 This expert opinion shall cease to be valid on 21/11/2016 at the latest and can be extended depending on the current level of technology.

This document is the translated version of Letter 3450/726/11 dated 21/11/2011 . The legally binding text is the

Vith Kind regards Dipl.-Ing. Mittmann Deputy Head of department

Dipl.-Ing. Schmieder



- Integrity and
- Temperature

will not be fulfilled in accordance with DIN 4102-2: 1977-09, even if the firewall structure causes an dditional horizontal impact load in accordance with DIN 4102-3 : 1977-09.

This requires the following:

- the unaffected cross-section of concrete is at least d = 140 mm thick:
- the centre distance of the reinforcement (measured from the inside of the formwork block) is at
- the alenderness is no more than h./d = 25 and
- the load-bearing and strutting members supporting the firewall comply with fire resistance class "F 90" as a minimum in accordance with DIN 4102-2 : 1977-09.

Moreover, to determine the load factor a, at a structural safety proof in accordance with DIN 1045-1: 2008-08, the design value of the standard force in a fire N_{n.41} in accordance with DIN 1055-100 nust be divided by the loadbearing capacity N_{RII} in accordance with DIN 1045-1 and multiplied by a* = 2.0, based on Section 5.2 of DIN 4102-22 : 2004-11.

 $\alpha_i = (N_{t,ti} / N_{tot}) \times \alpha^*$

Owing to the unaffected cross-section of concrete with the sheet steel spacers, no flammable construction materials penetrated through the firewall, meaning there is no risk of fire and smoke passing through the wall structure via the flammable formwork elements

This does not affect the other general requirements for firewalls outlined in other countries' building authority provisions.

4 Special references

4.1 This expert opinion can be used in conjunction with DIN 4102-4: 1994-03 and DIN 4102-22: 2004-11 in building authority procedures as a basis for the certificate of compliance, since the deviations from the abovementioned standards are evaluated as "non-essential" from a fire protection point of view. The manufacturer of the structure is responsible for issuing a certificate of compliance for it (indicating that it presents a "non-essential" deviation from the construction principles and boundary conditions in accordance with the abovementioned standards of fire protection).

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ARGISOL® - Machine AR 1412 for Standard Elements

















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Punching Machine





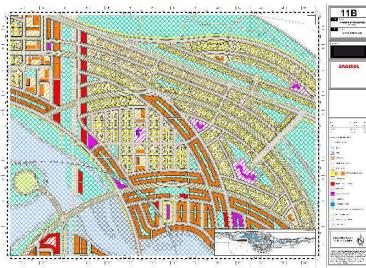


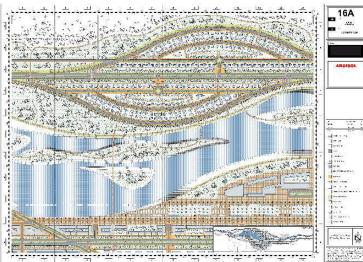
ARGISOL® - Development











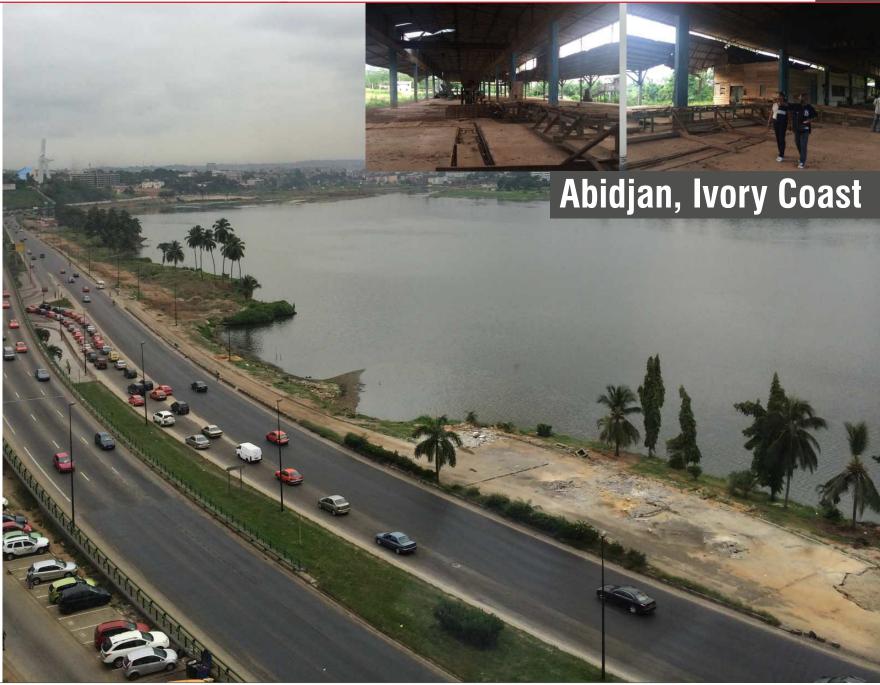
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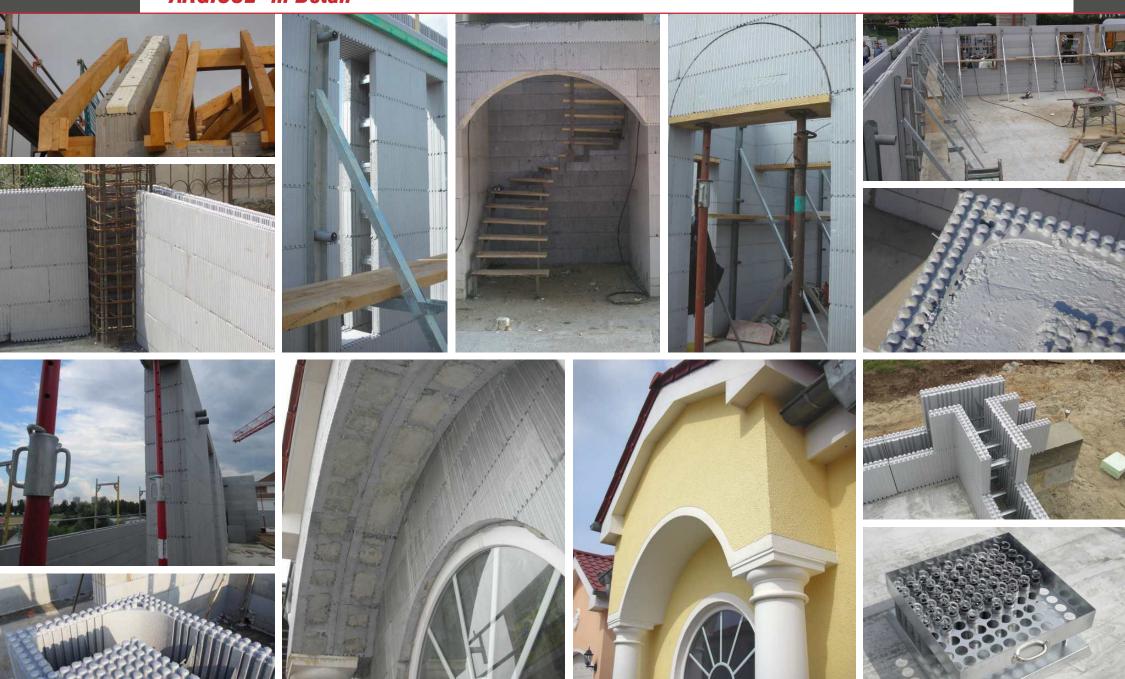








ARGISOL® in Detail

























Multi-Family House "Ludwigshafen - Melm"





























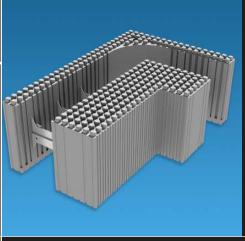


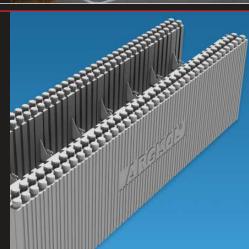
















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