



Modern Building Solutions



We are experts in the sale and delivery of building materials all over Europe



**Building
Design**



**Building
Materials**



**Construction
Services**



**Low-energy
Houses**

Top quality building materials

Hundreds of full truck deliveries across the whole of Europe every year

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Innovative design services incl. low-energy houses

Competitive prices

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www.stanlux.com

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I. BUILDING DESIGN:

The expertise of our professionals allows us to offer you a comprehensive and reliable design service for both residential and industrial buildings. As a part of our service we provide you with a three-dimensional visualization, virtual visit of the designed buildings and complete interior design including selection of all the necessary materials. What's more, our designers will make sure that your project is unique and fully suited to your needs and expectations. Please have a look for yourself at a demonstration of our experts' works:

No 1. BUILDING DESIGNS



No 2. INTERIOR DESIGNS



II. BUILDING MATERIALS:

1. Foundations

1.1. Foundation walls / Strip Footing made of Styropor elements



To make the strip footing, we recommend the MCFU 1/50 elements. They have 5-cm insulating walls and a 40-cm space where you put the reinforcement and pour the concrete.

The strip footing should be made on a layer of lean concrete and horizontal waterproofing membrane. After the strip footing has been concreted, the waterproofing membrane is made on its horizontal and vertical surfaces. On the strip footing prepared in such a way, you make foundations using the shuttering elements with the adequate thickness of insulating walls. If you opt for the MCFU or MC elements, you can have the core thickness of 15 or 20 cm, and the insulation thickness of 5, 10, 15 or 25 cm. This insulation will protect the building from freezing.



MCFU



MCFU 1/25



MCFU 1/35



MCFU 1/50



MCFU 2/25



MCFU 2/35



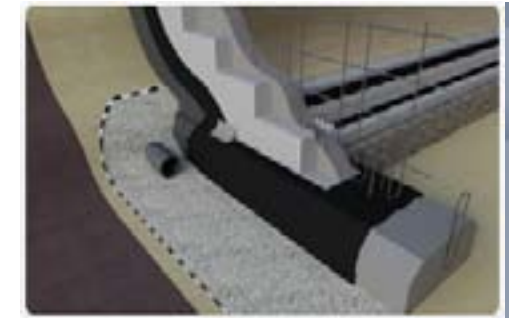
MCFU 2/50

1.2. Basement

The same elements can be used to build basement walls. They are erected just like the outside walls. However, due to the ground pressure they need to be reinforced and the styrofoam-compatible damp proofing membrane should be made wherever the groundwater level is high.



The walls and the damp proofing membrane should be protected in order not to affect their continuity when the excavation is backfilled.

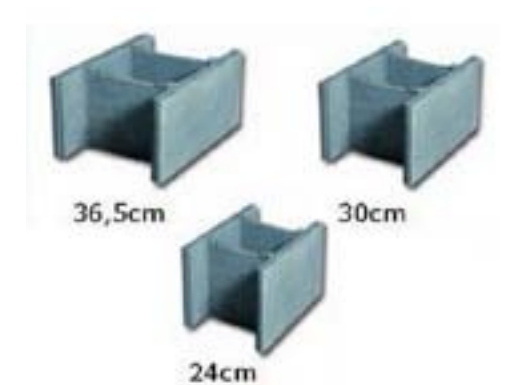


The picture shows the use of polyethylene damp proofing membrane to protect the basement wall insulation.

1.3. Foundation walls / Strip Footing and basements - other materials



XELLA SILKA E24S
kl. 20 i 25 foundation walls block



Brukbet foundation
walls block



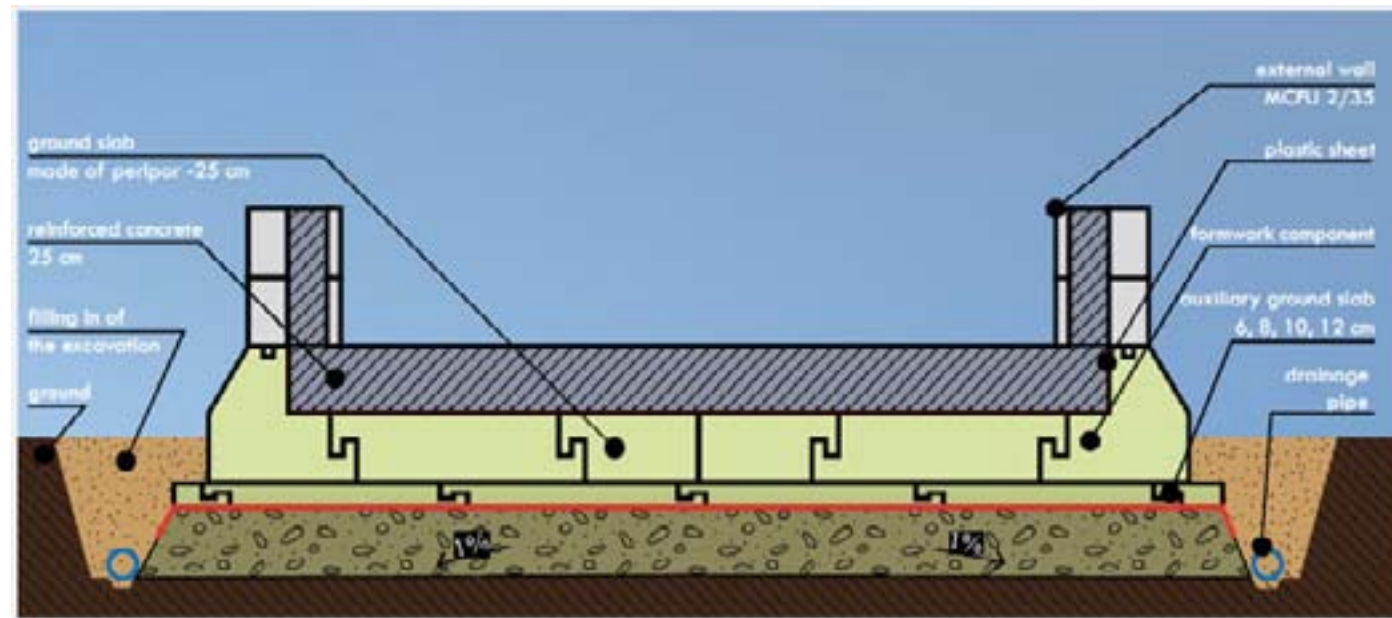
BETARD foundation walls block 50x25x24



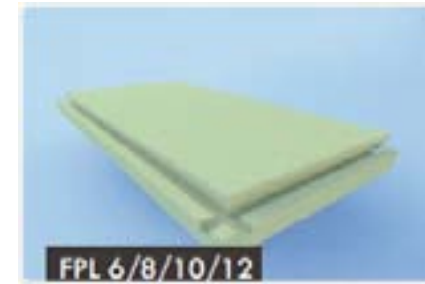
Standard foundation wall block

1.4. Ground slab

Simplified diagram of a ground slab



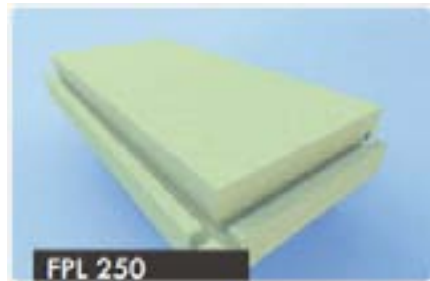
Auxiliary ground slab:



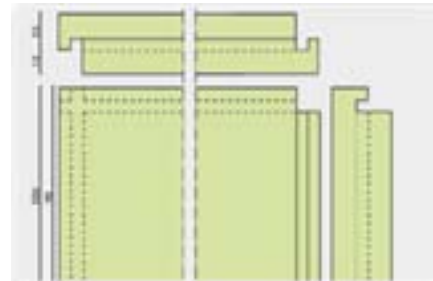
Auxiliary ground slab 195 x 95 x 6/8/10/12 [cm].

Available thickness of auxiliary ground slab

Symbol	Dimensions (length x width x thickness) [cm]
FPL 6	195 x 95 x 6
FPL 8	195 x 95 x 8
FPL 10	195 x 95 x 10
FPL 12	195 x 95 x 12



Ground slab 190 x 90 x 25 [cm].



Ground slab - cross section view.



Ground slab External corner 95 x 95 x 50 [cm] - internal view.



Ground slab External corner 95 x 95 x 50 [cm] - external view.

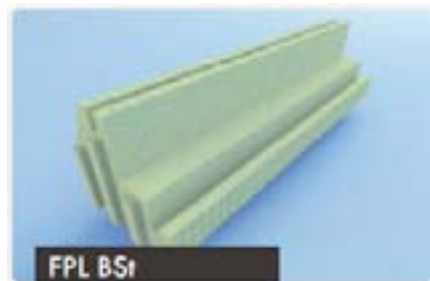


Ground slab External corner - cross section view.

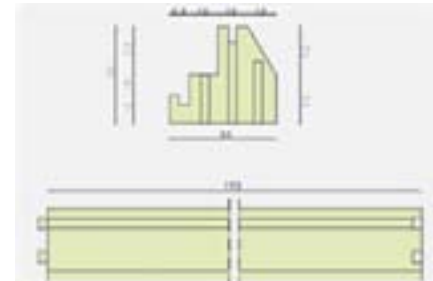
Ground slab Edge:



Ground slab Edge - external view 195 x 55 x 50 [cm].

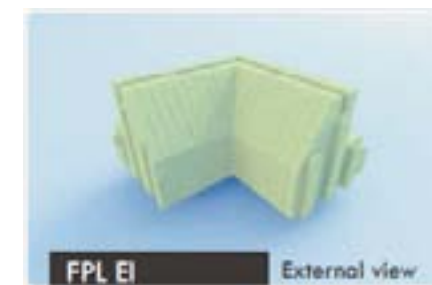


Ground slab Edge - internal view 195 x 55 x 50 [cm].



Ground slab Edge - cross section view.

Ground slab Internal corner:



Ground slab Internal corner 95 x 95 x 50 [cm] - external view.



Ground slab Internal corner 95 x 95 x 50 [cm] - internal view.



Ground slab Internal corner - cross section view.

2. Walls

2.1. YTONG blocks



Ytong Xella Energo 48/36,5/30/24cm
and Ytong Xella Energo Plus+



Ytong 11,5 cm, Ytong 10 cm,
Ytong 7,5 cm, Ytong 5 cm



Ytong lintels



Ytong U shape balks



Ytong block with wool isolation



Ytong Mortar/ Glue



Ytong tools

2.2. H+H blocks



H+H Termo block
<http://www.hplush.pl/h-h-termo>



H+H Termostein block
<http://www.hplush.pl/h-h-termostein>

2.3. Wienerberger bricks



Wienerberger Porotherm 44 T Dryfix
Wienerberger Porotherm 44 Dryfix Eko+,
Wienerberger Porotherm 44 Profi Eko+,
Wienerberger Porotherm 38 Dryfix
Wienerberger Porotherm 25 cm,

<http://www.wienerberger.com/brands-products>



3. Chimney systems and fireplaces

3.1. Ceramic and steel chimney systems:



<http://www.plewa.de/en/home.html>
<http://www.schiedel.com/products-services>



3.2. Fireplaces:



Koppe fireplaces:
<http://www.ofenkoppe.com/>



Spartherm fireplaces:
<http://www.spartherm.com/en/home/>

4. Floor slabs

4.1. YTONG



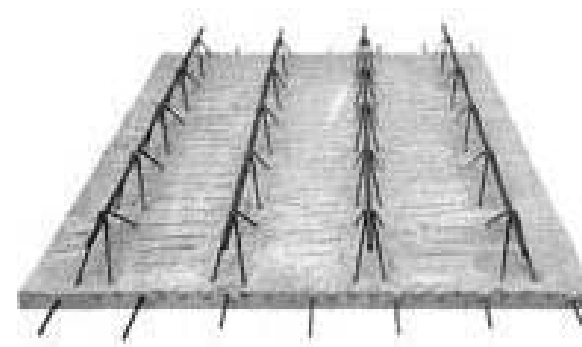
YTONG reinforced concrete slabs,
[read more >>](#)

4.2. Technobeton



Prestressed concrete floor slabs system,
<http://www.technobeton.pl/>

4.3. Filigran ceilings



4.4. Teriva Ceilings



Teriva reinforced concrete slab, thick ribbing



5. Roofing

5.1. Clay and concrete



Clay and concrete roof tiles,
<http://www.gerardroofs.eu/>
<http://www.wienerberger.com>
<http://www.roeben-bricks.co.uk>
<http://www.creaton.de/en/>
<http://www.monier.com/>

5.2 Lightweight pressed steel roofs

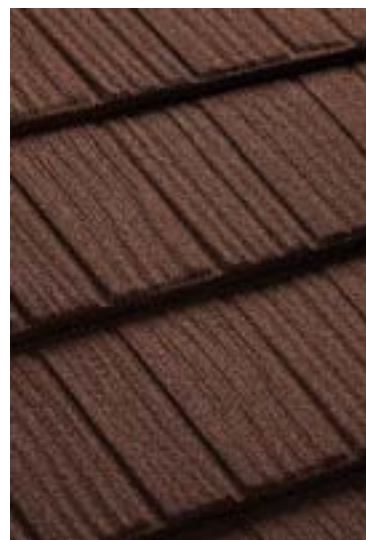


Standing seam steel sheets
<http://www.budmat.pl/>



Standing seam steel roof pannels,
<http://www.pruszynski.com.pl/home.php>

5.3 Lightweight pressed steel roof with the granulated stone textured surface



Granulated stone coated pressed metal roof tiles,
<http://www.gerardroofs.eu/>



6. Insulation

6.1. Styrofoam



Styrofoam plates
<http://www.knauf.co.uk/>
http://en.austrotherm.com/front_content.php
<http://www.genderka.pl/>

6.2. YTONG Multipor



Mineral insulation panels
<http://www.xella.com/en/content/4308.php>

6.3. Mineral wool



Isover
<http://www.isover.com/>



Mineral wool Rockwool
<http://www.rockwool.com>

6.4. Extruded polystyrene / XPS



Extruded polystyrene foam,
http://en.austrotherm.com/front_content.php

6.5. Polyurethane plate



Polyurethane plates
<http://www.knauf.co.uk/>
<http://www.bachl.de/>

7. Plaster/ mortar/ screed

7.1. Plaster



Baumit MVR Uni, traditional cement-lime plaster



Baumit NanoporTop self-cleaning plaster



Baumit SilikonTop, silicone plaster

www.baumit.co.uk



Weber TM314, polymer-modified plaster for thermal insulation systems



Weber TM315, polymer-modified lightweight plaster for thermal insulation systems.



Weber TM317, polymer-modified plaster for thermal insulation systems.



TD331, silicate coating plaster for thermal insulation systems.



TD336, silicate levelling silicone plaster for thermal insulation systems.



Weber TD341, silicate coating plaster for thermal insulation systems.

<http://www.netweber.co.uk/home.html>



Reinforcement:

Sto-Armierungsputz
Sto-Glasfasergewebe

Top coat:

acrylic plasters:
Stolit K/ Stolit R/ Stolit MP
silicone plasters:
StoSilco K/ StoSilco R/ StoSilco MP

Final coating:

StoLotusan Color
StoLotusan Color G
or other Sto elevation paints

http://www.sto.co.uk/19357_EN.htm

7.2. Mortar



Baumit StarContact White, white multi-purpose contact mortar
www.baumit.co.uk



Sto adhesive.



Sto plasters reinforcement.

http://www.sto.co.uk/19357_EN.htm



Weber Floor RAPID, pumpable rapid drying self-levelling floor screed, 10-100 mm, CT-C30-F5-A9



Weber Floor 6000, hand applied rapid drying thick layer subfloor, 5 – 250 mm, CT-C20-F4

<http://www.netweber.co.uk/home.html>



Weber KS111, primary adhesive mortar for styrofoam.



Weber KS112, adhesive mortar for styrofoam.



Weber KS113, adhesive mortar for thermal insulation systems.



Weber KS131, adhesive mortar for mineral wool fixing.

<http://www.netweber.co.uk/home.html>



Baunit Nivello Quattro, floor levelling compound.



Baunit Alpha 3000, thin layer screed.



Baunit Nivello Duo, self-levelling compound.

www.baunit.co.uk

7.3. Screed



Weber Floor 1000, hand applied self-levelling screed for cementitious flooring, 10-100 mm, CT-C20-F5-A15



Weber floor MIXOKRET, pump-applied screed for floating floor, 40-100 mm, CT-C20-F4

8. Paints/ Primers/ Glues



Baunit silicon, silicate and acrylic paints.



Baunit BetonPrimer.

www.baunit.co.uk



Weber FZ371, acrylic paint.



Weber FZ375, facade paint for plasters colors align and salt efflorescence prevention.



Weber FZ381, silicate paint.



Weber FZ391, silicone paint.

<http://www.netweber.co.uk/home.html>

9. House Installations (cold and hot water, heating, air-exchange system, ventilation)

9.1. Floor heating



Floor heating

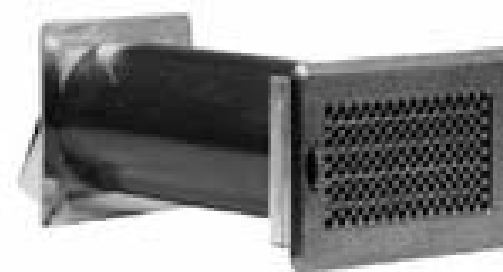
<http://www.uponor.com/>
<http://www.tece.com/en/index.html>

9.2. Air-exchange system



Exhaust and supply air ventilation with heat recovery (FTX system),
<http://www.zehnder.co.uk/>
<http://www.viessmann.co.uk/>

9.3. Ventilation

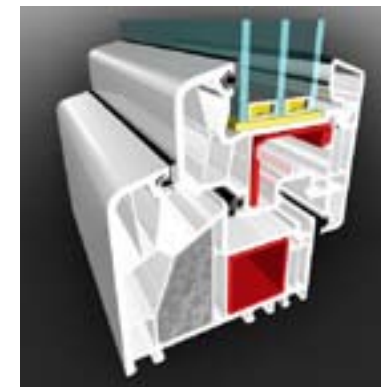


Air ventilation ducts, air dampers, air grilles, diffusers,

<http://www.smay.pl/en/home/>
<http://www.wentylacje.pl/home>

10. Windows/ Doors/ Gates:

10.1. Windows:



PVC windows:

Aluplast, VEKA, Gealan



Aluminium windows:

Aliplast:

<http://www.aliplast.be/page/view/135/Home>

Aluprof:

<http://www.aluprof.eu/en/>

Schuco:

<http://www.schueco.com/>



Wooden - aluminium windows:

<http://www.sokolka.com.pl/en/>

9.4. Cold and hot water



Cold and hot water pipes,

http://www.geberit.co.uk/en_uk/index.html

10.2. Doors and gates:



Hormann entrance and industrial doors, garages
<http://www.hormann.co.uk/>



Wisniowski garage and industrial doors,
<http://www.wisniowski.pl/en/>



Stolpaw wooden doors,
<http://www.stolpaw.com.pl/en>



KMT steel doors,
<http://kmt.com.pl/>



Loxley steel doors,
<http://loxley.pl/>

11. Heat pumps:



Heat pumps,
<http://www.dimplex.co.uk/index.htm>

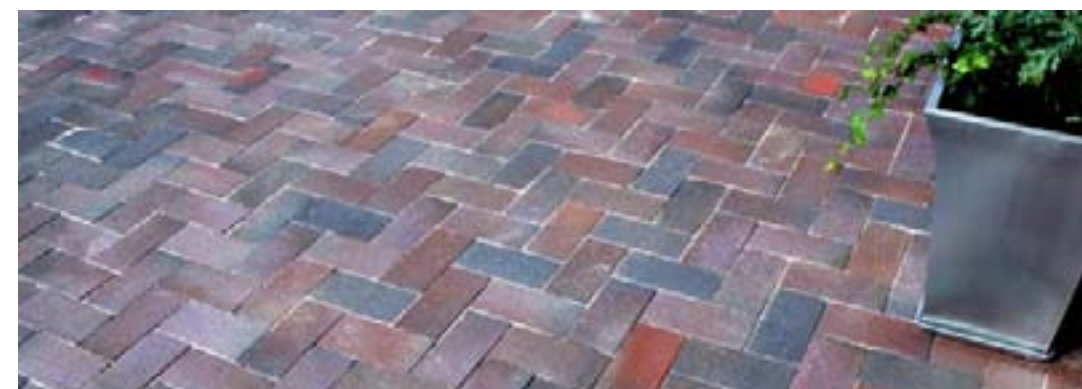
12. Ceramic tiles / Paving stones

12.1. Ceramic tiles



<http://www.tubadzin.pl/en/>
<http://en.cersanit.com/>

12.2 Paving stones



<http://www.polbruk.pl/produkty-2/>

13. Steel



Steel constructions for warehouses, storage halls etc.

13.1. Carbon steel:



Metal sheets



Pipes



Hollow sections - square and rectangular

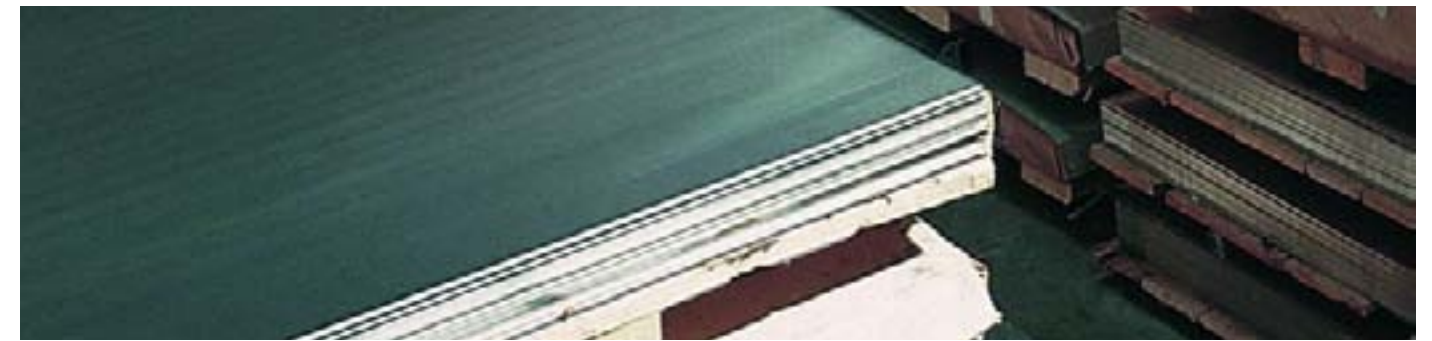


Structurals: standard beams, standard channels U, unequal angles, equal angles, etc.



Bars

13.2. Stainless steel:



Sheet, strip and coils



Tubes, profiles and fittings



Rods, flats and angles



Heat-resistant steel

13.3. Ribbed steel



III. CONSTRUCTION SERVICES:

STANLUX, along with its cooperating partners, offers comprehensive construction services and construction supervision for residential housing, as well as industrial investments and infrastructure. The know-how, experience and technical expertise of our companies allow us to offer professional services for projects related to the construction of energy-efficient buildings, including the drilling and installation of heat pumps.

No 1. RESIDENTIAL HOUSING



No 2. INDUSTRIAL BUILDINGS AND INFRASTRUCTURE



IV. LOW-ENERGY HOUSES

In order to build a low-energy house we need a suitable project, proper building materials and precise workmanship.

STANLUX - Modern Building Solutions offers a full range of investment services ranging from the preparation of a building project and the provision of a wide range of modern building materials to complex construction services and supervision.

Knowledge, experience and technical expertise of our companies allow us to offer a professional service for projects related to erasing of energy-efficient and passive buildings including drilling and installation of heat pumps.

STANLUX also offers comprehensive advice on low-energy buildings. Our employees regularly participate in training courses on low-energy constructions and modern construction technologies.



The principles to be followed when starting the construction of an energy-efficient house building are:

- Ensuring a compact shape
- Appropriate arrangement of the rooms
- Location relative to the sides of the world
- Use of solar energy
- Protection against overheating

Proper building materials are the key both to reduce the demand for energy as well as to construct your dream house quickly and efficiently.