

## Thermal insulation systems - a wealth of experience

JUB is considered to be the oldest producer of wall paints in Slovenia and throughout the region. The production of mineral paints in Dol pri Ljubljani, where the Company's headquarters are still located, dates back to 1875. 136 years of manufacturing is the best assurance that Jub d.o.o. produces quality products to the buyer's final satisfaction. Jubizol External Wall Insulation (EWI) system is Jub's traditional product. This year, Jub is celebrating the 45th anniversary of the application of the first EWI system.

Long term experience and the use of the most modern active ingredients provide assurance of performance for many years on the functional characteristics that can be offered by Jubizol EWI system.







## JUBIZOL - Tailor-made facade systems

JUBIZOL is a façade EWI system, which meets the requirements for sufficient and effective thermal insulation of exterior walls, protects façade surfaces against atmospheric loads and achieves an aesthetical appearance of a building.

Its life span, construction and other characteristics depend on the selected type and thickness of the insulating lining, the type of the applied adhesive mortar, the thickness and type of base render applied, and on the final treatment of the system such as, colour shade, graininess and other characteristics of the applied render finish. With extensive research and by carefully combining the components we have achieved the greatest possible synergy effects and have created the proven best contact façade EWI systems, namely: Standard, Comfort, Premium, Strong and Nature. JUBIZOL EWI system ensures the reduction of heating costs by up to 40%.



 **JUBIZOL**  
Tailor-made facade systems



## JUBIZOL - superior quality

The superior quality of Jubizol thermal insulation systems is confirmed by the results of research on our own innovative facade test sites and state-of-the-art laboratories of the Technology Research Centre (TRC).

The procedures of accelerated ageing and thermal shocks in micro-climatic chambers prove that JUBIZOL systems have a significantly longer temporal durability in the most aggressive exploitation conditions, which was the basis for the preparation of the extended guarantee for the benefit of buyers. We established the basis for optimisation and minimization of maintenance interventions on JUBIZOL thermal insulation systems. With our own production of expanded polystyrene, we ensure total control over all the components installed in the system.


We designed facade systems: JUBIZOL Standard, Comfort, Premium, Strong, Nature according to the rules and principles of the so-called "sustainable construction".





  
Academy

Seminars which are a combination of theory and practical exercises in the applicative workshop.

  
JUBIZOL  
Engineering

Construction physics, construction details, anchoring according to wind zones.

  
Design  
Studio

Showroom/salesroom intended for acquisition of creative ideas for every home.



## JUBIZOL Standard – Professionals' first choice

JUBIZOL Standard is based on knowledge and experience gained over forty years of application of more than 10 million of m<sup>2</sup> of contact façade EWI systems on insulating lining made of traditional expanded polystyrene. The system satisfies the needs of the largest number of buyers and is the first choice of a majority of professionals due to its easy application.

### Characteristics:

- An ideal quality – price ratio;
- Wide range of colour shades of finishing render (brightness  $Y > 25$ );
- The lowest possible base render thickness (only 3 mm);
- It is possible to choose between the appearance of a smoothed and trowelled façade surface of different graininess;
- Perfect preservation of functional characteristics and aesthetical appearance of JUBIZOL thermal insulation system can be achieved with recommended maintenance painting.

### Suitability:

- For all types of wall surfaces;
- For façade surfaces which are protected against rainfall with at least minimum eaves;
- For average or less demanding exploitation conditions;
- Mainly for thermal insulation of new and thermal renovation of existing lower apartment buildings of up to 22 m high, and low business, production and similar buildings.





| Composition:      |   | Use:                                   |
|-------------------|---|--|
| Insulating lining | JUBIZOL EPS F-W0 (White without rabbit)       | 1 m/m <sup>2</sup>                     |
| Adhesive          | EPS adhesive mortar or JUBIZOL adhesive       | 3,5 - 5 kg/m <sup>2</sup>              |
| Base render       | EPS adhesive mortar                           | 4,5 kg/m <sup>2</sup>                  |
| Reinforcement     | JUBIZOL façade mesh 145 g/m <sup>2</sup>      | 1,1 m/m <sup>2</sup>                   |
| Primer            | Unigrund                                      | 120 - 200 g/m <sup>2</sup>             |
| Final treatment   | Acrylic smooth render (1,0); 1,5; 2,0; 2,5 mm | (2,1); 2,5; 3,0; 5.0 kg/m <sup>2</sup> |
|                   | Acrylic trowelled render 2,0; 2,5 mm          | 2,5; 3.2 kg/m <sup>2</sup>             |



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## JUBIZOL Comfort - the right choice for demanding customers

It is mainly intended for buildings of higher accommodation standard. The system enables a selection of the largest number of shades – from the intense yellow, orange and red shades of Unixil superior, characterised by exceptional UV-durability, to the darker shades of Unixil cool with  $Y < 25$ , characterised by up to 25 % lower level of heating due to lower absorption of infrared light. With Superior and Cool colour shades, maximum durability is ensured. Use of micro-reinforced mortar in base render, also with minimum thickness, guarantees adequate firmness and desired safety in the selection of darker finishing renders or in more demanding micro-climatic conditions.

### Characteristics:

- Wide selection of finishing render colour shades;
- Minimum possible thickness of base render (3 mm);
- Optional selection of smoothed façade surface of varied graininess;
- Perfect maintenance of functional characteristics and aesthetic appearance of JUBIZOL thermal insulation system is achieved by recommended maintenance painting.

### Suitability:

- For all types of wall surfaces,
- For modern urban environments with façade architecture in modern and intensive as well as darker colour shades,



- For façade surfaces which are protected against rainfall with at least minimum eaves,
- For more demanding exploitation conditions,
- For thermal protection of new and thermal renovation of existing residential, business and other buildings which are up to 22 metres tall.

| Composition:      |  | Use:                              |
|-------------------|--|-----------------------------------|
| Insulating lining | JUBIZOL EPS F - W2 (white, perforated)   | 1 m/m <sup>2</sup>                |
| Adhesive          | JUBIZOL adhesive mortar                  | 3,5 - 5 kg/m <sup>2</sup>         |
| Base render       | JUBIZOL adhesive mortar                  | 4,5 kg/m <sup>2</sup>             |
| Reinforcement     | JUBIZOL façade mesh 160 g/m <sup>2</sup> | 1,1 m/m <sup>2</sup>              |
| Primer            | Unigrund                                 | 120 - 200 g/m <sup>2</sup>        |
| Final treatment   | Unixil G (1,0); 1,5; 2,0 mm              | (2,0); 2,5; 3,1 kg/m <sup>2</sup> |



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## UNIXIL G - Siloxaned acrylic smooth render

It is intended for decorative protection of façade wall surfaces of all types of buildings, including multi-storey buildings with minimum protruding roofs. It combines the good characteristics of acrylic and silicone renders.

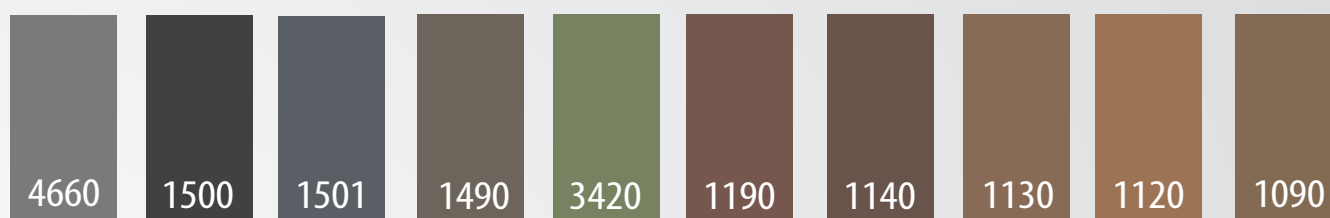
This innovative system is the result of several years of research, financed by EU funds.

### Characteristics:

- The largest selection of colour shades
- The highest durability of intensive colour shades
- High water repellence (among the best on the market)
- High water vapour permeability (among the best on the market)
- Long-term resistance to infection with algae and mould
- High strength
- High resistance to atmospheric loads
- Excellent applicative characteristics
- Longer treatment time

## UNIXIL G Cool

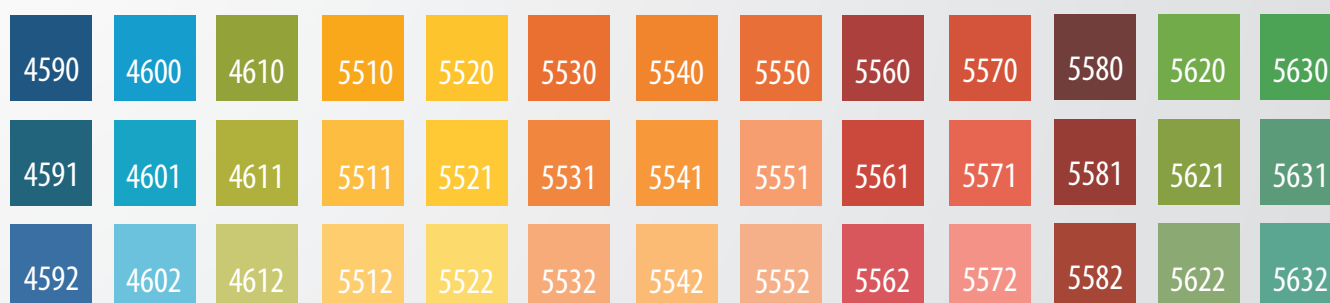
IR reflective siloxaned acrylic smooth render, characterised by up to 25% lower level of surface heating. The production of colour shades involves the use of special IR reflective pigments, which are the result of several years of research financed by EU funds. They prevent excessive expansion of facade surfaces due to overheating and enable the use of a colour shade on the whole surface of the building.



## UNIXIL G Superior

Superior quality, exceptional weather and UV-durability of intense yellow, blue and red Superior shades (5th price range). They enable the use of a colour shade on 10 % of the surface of the building.

*\* Printed samples are symbolic and do not show the actual final appearance of the shades.*







## JUBIZOL Premium – Technologically sophisticated thermal insulation system

The best EWI system, it is intended for thermal protection of prestigious buildings to which the desired elegance and minimalism are ensured by means of the carefully selected range of white and light pastel shades. High water repellency and lower dirt absorption, also enable the application of the system on façade surfaces of tall buildings which are exposed to rainfall. The system is particularly suitable for the polluted environment of urban and industrial centres, for salty maritime and other similar environments.

### Characteristics:

- Highly water repellent and highly self-cleaning render finish,
- Render finish can be obtained only in white and light pastel shades,
- The option of choosing the appearance of a smoothed façade surface of different graininess,
- High fire resistance of the version on lamellas made of mineral wool,
- The lowest possible base render thickness (only 5 mm),
- Perfect preservation of functional characteristics and aesthetical appearance of JUBIZOL thermal insulation system can be achieved with recommended maintenance painting.

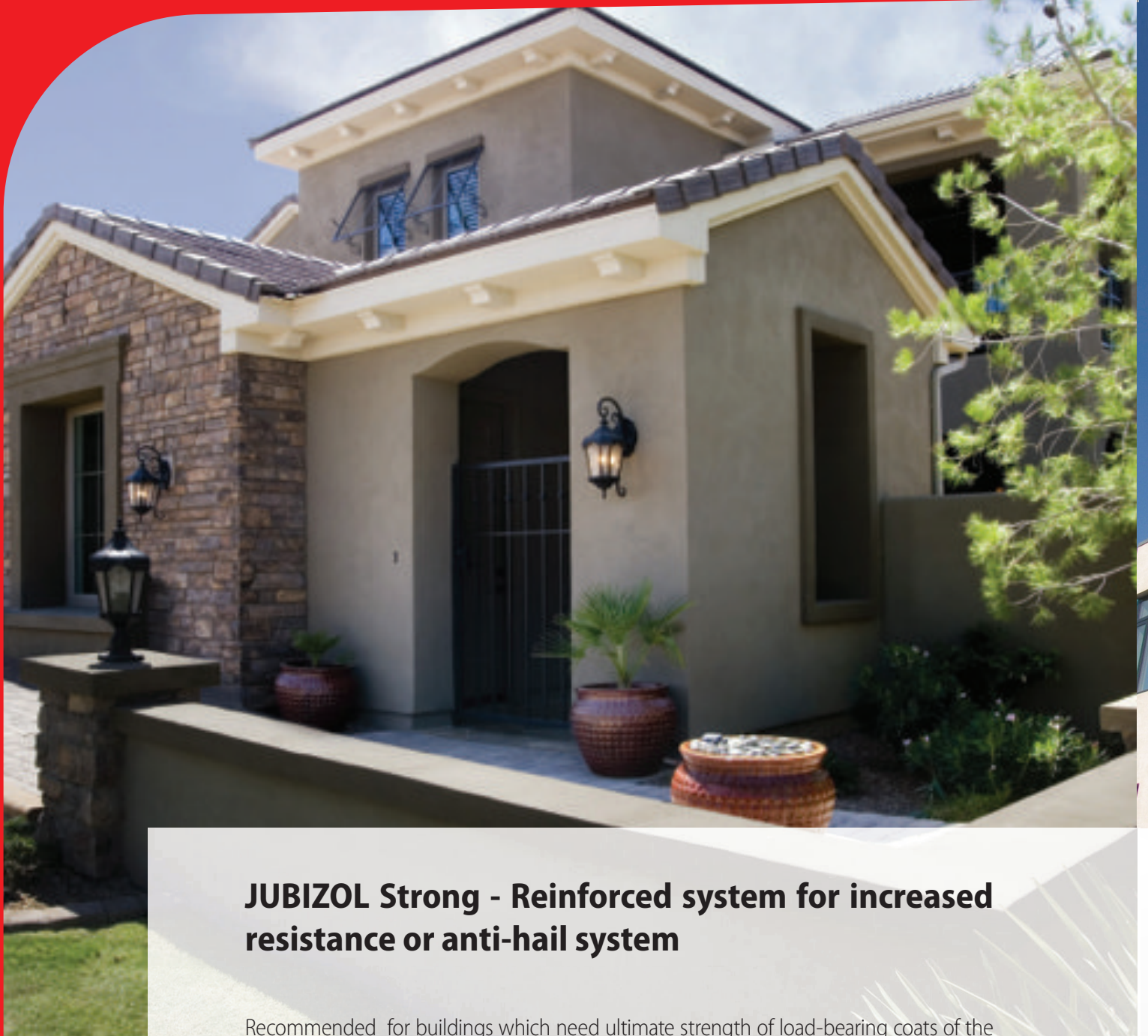


#### Suitability:

- For all types of wall surfaces and the most demanding exploitation conditions,
- For thermal protection of new and thermal renovation of existing residential, business and other buildings up to 22 metres tall or new, low, modern and prestigious buildings with minimum or no protection of façade surfaces against rainfall. For thermal renovation of existing buildings of the same kind, also in heavily polluted environments,
- Version on lamellas made of mineral wool for all types of public and business buildings (nursery schools, schools, hospitals, residences for the elderly) requiring increased fire safety and for thermal renovation of buildings of the same kind; also for thermal protection of new residential buildings taller than 22 metres and for thermal renovation of buildings of the same kind – the version on lamellas ensures good sound insulation.

| Composition:      |  | Use:  |
|-------------------|--|---|
| Insulating lining | JUBIZOL EPS F-G2 (graphite with holes),<br>Lamellas or boards from mineral wool for<br>contact facades | 1 m/m <sup>2</sup>                                    |
| Adhesive          | JUBIZOL adhesive mortar  | 3,5 - 5 kg/m <sup>2</sup>                             |
| Base render       | JUBIZOL adhesive mortar  | 4,5 kg/m <sup>2</sup> ,<br>wool 7,0 kg/m <sup>2</sup> |
| Reinforcement     | JUBIZOL façade mesh 160 g/m <sup>2</sup>   | 1,1 m/m <sup>2</sup>                                  |
| Primer            | Unigrund   | 120 - 200 g/m <sup>2</sup>                            |
| Final treatment   | Nanoxil G 1,5; 2,0 mm  | 2,6; 3,4 kg/m <sup>2</sup>                            |





## JUBIZOL Strong - Reinforced system for increased resistance or anti-hail system

Recommended for buildings which need ultimate strength of load-bearing coats of the system and which require increased resistance of façade surfaces to impact and perforation. Both are achieved by thickening and double reinforcement of the base render. Safety of the system is ensured with regard to damages caused by extreme weather conditions, vandalism, different pets or game animals and also thermal elongations and shrinkages resulting from the application of render finishes of dark colour shades. In all cases, the reinforced base render is an economical preventive measure.

### Characteristics:

- Attested hail resistance;
- The lowest possible base render thickness (only 6 mm), double reinforcement;
- Perfect preservation of functional characteristics and aesthetical appearance of JUBIZOL thermal insulation system can be achieved with recommended maintenance painting.



**Suitability:**

- For all types of wall surfaces;
- For thermal insulation of new and thermal renovation of existing buildings, up to 22 m high, in environments requiring increased resistance against damage due to weather, vandalism and various animals, as well as extreme thermal expansions or shrinkages.

| Composition:      |  | Use:  |
|-------------------|--|---|
| Insulating lining | JUBIZOL EPS F - W0                                   | 1 m/m <sup>2</sup>  |
| Adhesive          | JUBIZOL adhesive mortar                              | 3,5 - 5 kg/m <sup>2</sup>                                       |
| Base render       | JUBIZOL adhesive mortar                              | 8,4 kg/m <sup>2</sup>   |
| Reinforcement     | 2 x JUBIZOL façade mesh 160 g/m <sup>2</sup>         | 2,2 m/m <sup>2</sup>  |
| Primer            | Unigrund   | 120 - 200 g/m <sup>2</sup>                                      |
| Final treatment   | Nanoxil G 1,5; 2,0 mm<br>Unixil G (1,0); 1,5; 2,0 mm | 2,6; 3,4 kg/m <sup>2</sup><br>(2,0); 2,5; 3,1 kg/m <sup>2</sup> |







## JUBIZOL Nature - For all who prefer natural construction materials

It is a façade EWI system tailored to those buyers who prefer natural building materials.

Thus lamellas made of mineral (stone) wool have been used as the insulating lining and a silicate decorative render finish as the final coat. The system is non-combustible and can therefore be used for thermal protection of all buildings requiring the highest level of fire safety. It is distinguished by high water vapour permeability while a silicate render finish still ensures the system solid protection against precipitation.

### Characteristics:

- High fire safety,
- High water vapour permeability,
- Good sound insulation,
- The lowest possible base render thickness (only 5 mm),
- Narrower range of shades of render finishes,
- The possibility of choosing the appearance of a smoothed and trowelled façade surface of different graininess
- Complete preservation of functional characteristics and aesthetical appearance by means of maintenance painting every 10 to 15 years.



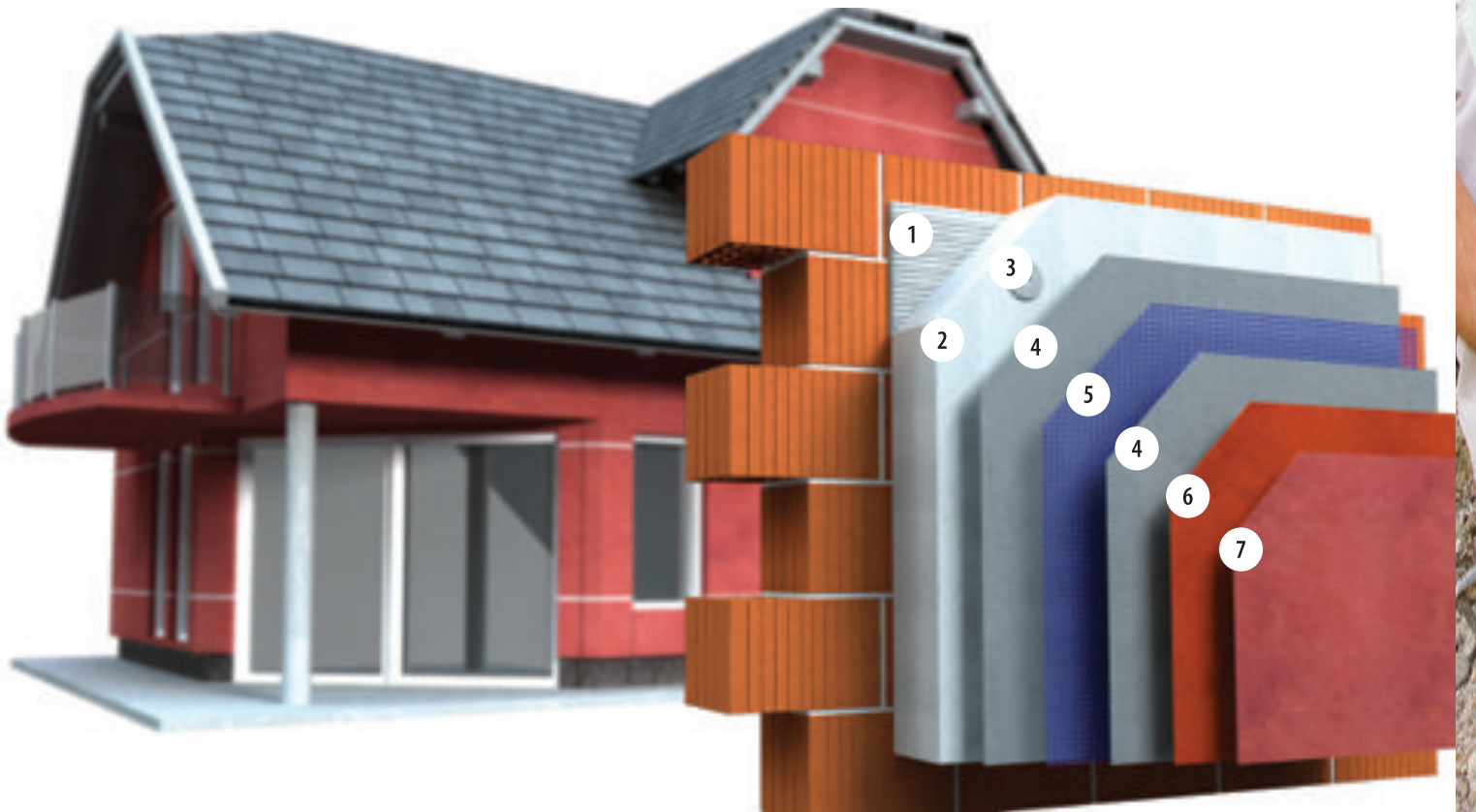
**Suitability:**

- For all types of wall surfaces where average or less demanding exploitation conditions prevail;
- For façade surfaces which are protected against rainfall with at least minimum eaves,
- For all types of public, business and other buildings requiring increased fire safety, and for thermal renovation of similar buildings,
- For thermal protection and renovation of new residential buildings which are taller than 22 metres,
- For thermal protection of new and existing buildings requiring increased water vapour permeability of a façade EWI system.

| Composition:      |  | Use:   |
|-------------------|--|--|
| Insulating lining | Mineral wool boards or lamellas for ETICS  | 1 m/m <sup>2</sup>   |
| Adhesive          | JUBIZOL adhesive mortar  | 3,5 - 5 kg/m <sup>2</sup>                                    |
| Base render       | JUBIZOL adhesive mortar  | 7,0 kg/m <sup>2</sup>  |
| Reinforcement     | JUBIZOL façade mesh 160 g/m <sup>2</sup>   | 1,1 m/m <sup>2</sup>   |
| Primer            | Unigrund   | 120 - 200 g/m <sup>2</sup>                                   |
| Final treatment   | Silicate smooth render 1,5; 2,0; 2,5 mm;<br>Silicate trowelled render 2,0; 2,5 mm; | 24; 3,0; 4,7 kg/m <sup>2</sup><br>2,5; 3,2 kg/m <sup>2</sup> |







## JUBIZOL Installation of thermal insulation system

### System components:

1. Adhesive for EWI lining,
2. EWI lining,
3. Two-piece plastic anchors,
4. Base render,
5. Reinforcement mesh,
6. Intermediate coat,
7. Decorative render finish.



### Fixing of ewi lining

Insulating linings differ as far as strength characteristics, thermal conductivity, combustibility and water- vapour permeability are concerned.

### You can choose among:

- Jubizol EPS – the most commonly applied lining, quick and easy application,
- Jubizol strong – suitable for insulating linings located in the ground, low water absorption,
- Hard boards and lamellas made of mineral wool to achieve the highest level of fire safety.

### To fix insulating lining, you can choose among:

- Jubizol adhesive mortar – universal adhesive for all types of linings; it can also be applied as the base render,
- Jubizol adhesive - for fixing EPS boards as well as hard boards and lamellas made of mineral wool,
- EPS adhesive mortar – for fixing boards made of EPS (the final coat – thin-coat decorative render finish), also as the base render,
- Jubizol dispersion mortar – suitable for application on prefabricated houses.







## JUBIZOL Installation of thermal insulation system

### Anchoring


Additional anchoring of the insulating lining made of EPS is not necessary with buildings up to 8 metres tall. In all other cases, it is obligatory to additional anchor the lining.

### Base render

is composed of two applications of the Jubizol adhesive mortar or EPS adhesive mortar or Jubizol dispersion mortar. The total thickness of the base render on the insulating lining made of EPS or XPS is 3 mm and 4 – 6 mm on a lining made of mineral wool.

### Intermediate coat

Before applying the final coat, apply a primer onto the base render. It should correspond to the selected render finish. We recommend the universal Unigrund for paste-like acrylic, silicate and silicone render finishes.



### Final coat application

In most cases, the final coat in a contact façade EWI system is one of thin-coat decorative render finishes. Select a more water repellent silicone and acrylic decorative render finish for façade surfaces extremely exposed to rainfall. Greater fire safety of façade EWI lining is ensured by silicate and mineral decorative render finishes as well as self-cleaning Nanoxil render finishes while Unixil render finishes offer a selection of the greatest number of shades.

Decorative render finishes of all types are available in several granulations: 1.5, 2.0 and 2.5 mm, and several different textures: smooth, trowelled and sprayed. Corner trimmings of a building and façade window or door openings can be emphasized by using decorative trimmings or other decorative elements.



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## JUBIZOL facade systems

| Individual system features:                          | JUBIZOL Premium | JUBIZOL Comfort | JUBIZOL Standard | JUBIZOL Nature | JUBIZOL Strong |
|--|-----------------|-----------------|------------------|----------------|----------------|
| Protection of the building against weather influence | ***             | ***             | **               | ***            | ***            |
| Resistance to weather loads                          | ***             | ***             | **               | ***            | ***            |
| Water-repellence/water absorption*                   | ***             | ***             | **               | ***            | ***            |
| Protection against development of algae and mould    | ***             | ***             | ***              | ***            | ***            |
| Mechanical resistance                                | ***             | ***             | ***              | ***            | ***            |
| Resistance against absorption of dirt                | ***             | **              | *                | **             | ***            |
| Number of shades on offer                            | **              | ***             | ***              | **             | ***            |
| Temporal stability of shade                          | ***             | ***             | **               | ***            | ***            |
| Self-cleaning effect on render surface               | ***             |                 |                  |                | ***            |
| Easy implementation                                  | ***             | ***             | **               | ***            | ***            |
| Ecological product                                   | ***             | ***             | ***              | ***            | ***            |
| Guarantee  | ***             | ***             | **               | ***            | ***            |
| Price  | *               | **              | ***              | **             | *              |
| Legend   | *** superior    | ** excellent    | * very good      |                |                |

\* As far as capillary water-repellence is concerned, all JUB decorative renders belong to the highest class (Class III.)



## Smooth and trowelled render

| Individual render characteristics: | Acrylic render | Silicate render | Unixil       | Silicone render | Nanoxil |
|------------------------------------|----------------|-----------------|--------------|-----------------|---------|
| Water-repellence/water absorption  | **             | *               | ***          | ****            | ****    |
| Water vapour permeability          | ***            | ****            | ***          | **              | **      |
| Easy implementation                | **             | *               | ***          | ****            | ****    |
| Resistance to weather loads        | ***            | ***             | ****         | ****            | ****    |
| Number of shades on offer          | ***            | **              | ****         | **              | **      |
| Texture appearance                 | ***            | *               | ****         | ****            | ****    |
| ETA certificate                    | Yes            | Yes             | Yes          | Yes             | Yes     |
| Legend                             | **** superior  | *** excellent   | ** very good | * good          |         |

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