

# **The company Kovove profily, spol. s r.o.**

**We offer:**

- 1. We choose for you the optimal roof and wall system from all thin metal based systems with respect to required technical characteristics, price and quality of the building.**
- 2. We calculate the static of your roof or wall, we optimize your construction.**
- 3. We supply the material, we make the drawings for roof and walls, we train your building staff, we help with chief-montage.**

**Ing. Zbyněk Vitošek**

manager

Kovové profily, spol. s r.o.

## Types of wall and roof systems based on thin metal profiles

### 1. Systems without thermal isolation

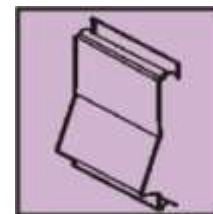
- TRAPEZOIDAL PROFILES



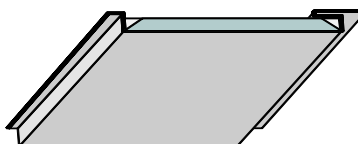
- SINUSOIDAL (WAVES) PROFILES



- SIDING – FACADE LAMELAS



- LARGE FACADE CASSETTES



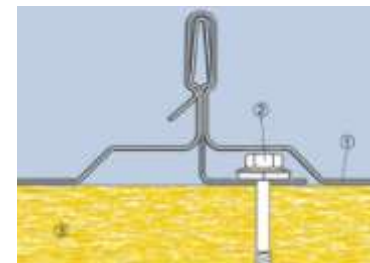
- COMPOSITE PLATES – BOND



- ALL-METAL DESKS DOLUFLEX



- NO-SCREW ROOFS AND FACADES BEMO , KLIPTEC





Feronia Brno TR 35/207



Tesco – Rockprofil 200



stadium Teplice – Danpalon VRS



Bratislava airport

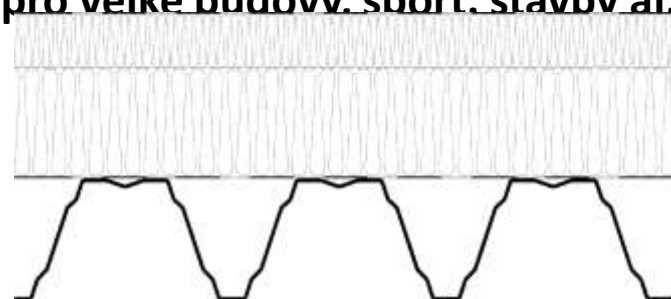


The centre of architecture  
 Prague – Alpolic Champagne  
 a Grey

## 2. Systems with integrated thermal isolation

### JEDNOPLÁŠŤOVÉ ZATEPLENÉ PLOCHÉ STŘECHY:

- Požární odolnost do 30–60 min. až do rozponu 7,5 m
- Systém **PROTECTROOF** - **požárně odolný**, možno i se zvýšenou hodnotou **RW až do 53 dB** a/či akustické
- Systém **KP ROOF FIRE** - **požárně odolný**
- Systém **KP ROOF AKU (19 podsystémů)** -  $\alpha = 0,3-0,9$  – děrované profily – střešní konstrukce s integrovanou řízenou zvukovou pohltivostí
- Systém **KP – PODHLED** až do  $\alpha = 1,00$  - **optimální pro velké budovy, sport. stavby a.** výhodou zde tuhost a snadná a rychlá montáž



### Střešní sendvičové panely:

- Panely s izolací PUR, PIR či s minerální vlnou
- Jednostranné sendvičové panely pro ploché střechy
- Panely pro zemědělství a pro fotovoltaické panely





Airport Hamburk



SCONTO - Prague



GLOBUS - Olomouc

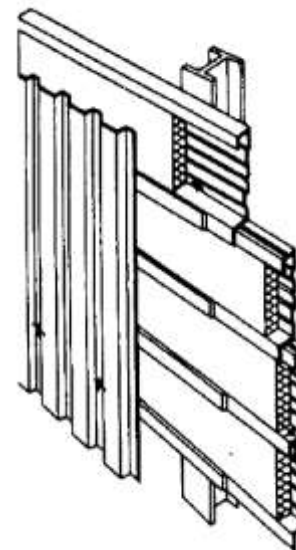
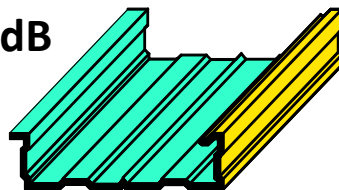


OBI - Prague

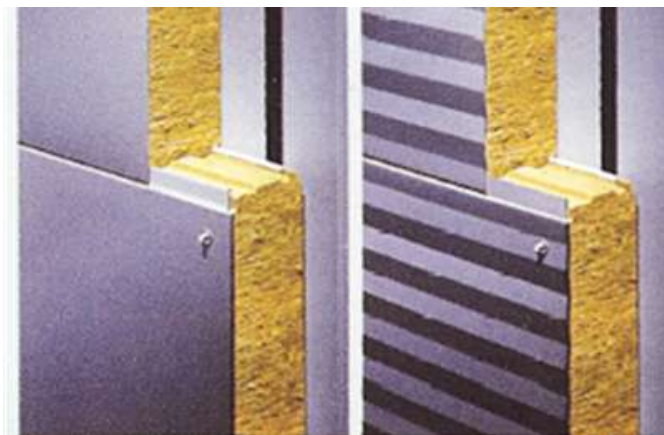
## Wall systems with integrated therm isolation

- Kazetové stěny nosné, rozpon až 7,5m
- Kazetové stěny s odstup. šrouby Rockrofil či KI-KP Duotherm

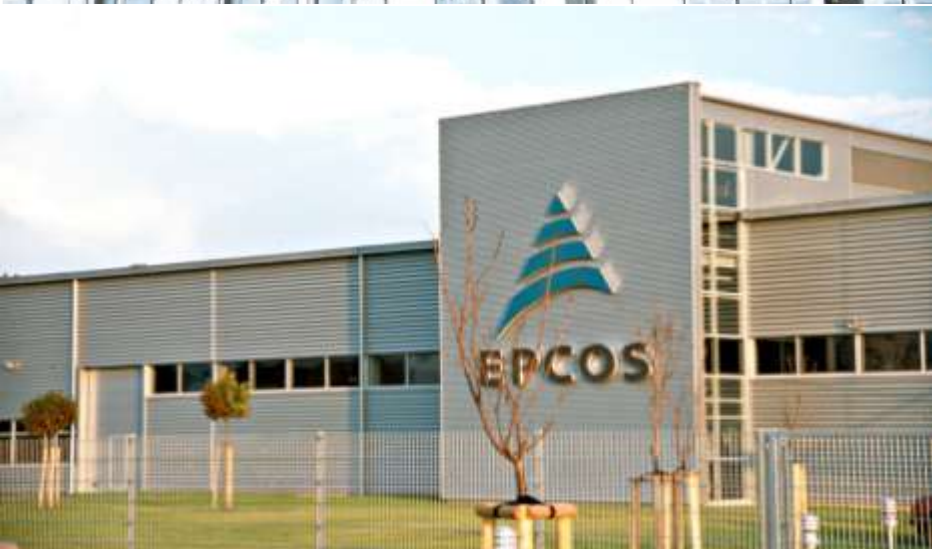
U= až 0,15; RW až 54dB



- Sendvičové panely







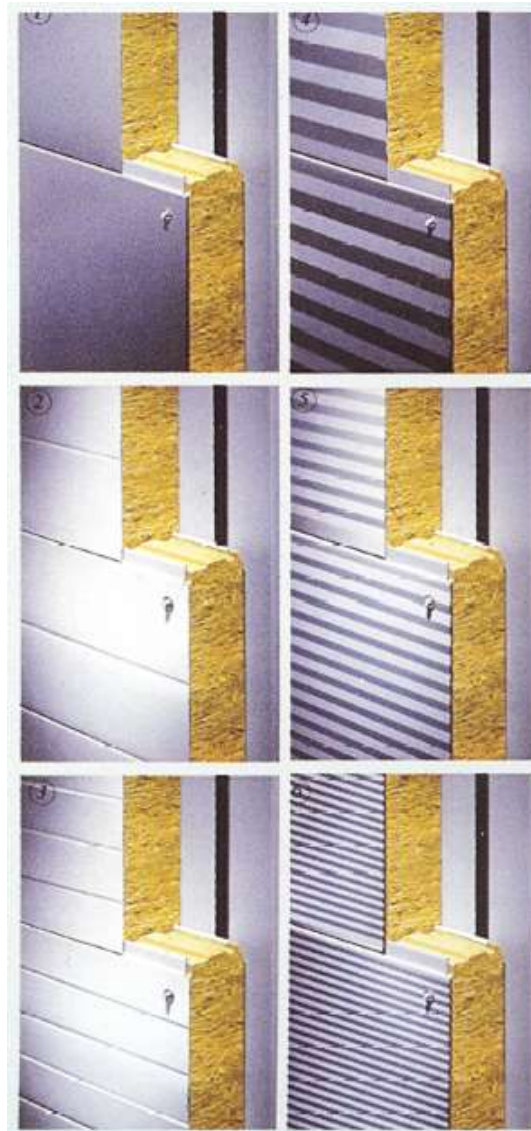
- ELE Ledvice, Cassette system Rockrofil up to 123m length 6m, Fire-resistant, Colorcoat Prisma



**PANASONIC - Pilsen**



**Würth – Mladá Boleslav**



*Possible profilation  
 Sandwich panels*

# **Wallsystems for facades or roofs** **without thermal isolation**

**Trapezoidal profiles and sinusoidal (waves)  
profiles**

**Designed profiles**

**Facade lamellas – siding**

**C-lines walls**

**Composite plates – bond, DOLUFLEX**

**No-screw roof and facades BEMO, Kliptec**



**We offer for you:**



## **Trapezoidal profiles:**

**We choose for you the optimal profile according to your construction, necessary guaranty and price. We reduce your costs.**

- **THE CHEAPEST WALL SYSTEM FOR LONGLIFE MAINTENANCE-FREE LIFESPANS**  
**THE CHEAPEST SYSTEM FOR THERMAL WEATHERPROOFING**
- A lot of types and designs, various materials, coatings, colours...
- Perforated –profiles, acoustic profiles
- Combined with concrete structures
- Curved profiles, design profiles (Welltec, Montana, SAB,) for interior and exterior

## Trapezoidal profiles – construction profiles

■ For roofs and walls, in the height of the profiles from 6 to 200 mm. Produced from galvanised and coil-coating painted steel.

Tab. 1 – Standard construction profiles – the part of sortiment

| TRAPÉZOVÉ PROFILY        |              |                         |              |            |              |
|--------------------------|--------------|-------------------------|--------------|------------|--------------|
| Označení                 | Tvar profilu | Označení                | Tvar profilu | Označení   | Tvar profilu |
| TR 19/105                |              | TR 40/183               |              | TR 94/255  |              |
| TR 20/137,5<br>TR 20/220 |              | TR 45/333 KD            |              | TR 100/275 |              |
| TR 25/175                |              | TR 50/250<br>TR 50R/250 |              | TR 110/333 |              |
| TR 30/220                |              | TR 55/250               |              | TR 130/343 |              |
| TR 35/207                |              | TR 56/222               |              | TR 160/250 |              |
| TR 39/333                |              | TR 60/235               |              | TR 200/375 |              |
| TR 40/333                |              | TR 70/200               |              | TR 200/420 |              |



## Facade lamelas -- Fischer Panel 33-250



THE CHEAPEST WALL SYSTEM FOR  
LOW INTERMITTENT FACADES

LIFETIME OF TENS OF YEARS

Maintenance-free

Many designs to choose

Trapezoidal or wave profile-distance profiles-isolation

Price **galvanized steel + Polyester 25my:**

200 CZK - 220 CZK/m<sup>2</sup>

Price **galvanized steel + PVDF 25my :**

230 CZK - 270 CZK/m<sup>2</sup>

Price **galvanized steel + Prisma 40-65my :**

250 CZK - 300 CZK/m<sup>2</sup>

Price **Aluminium + Polyester 25my:**

350 CZK - 450 CZK/m<sup>2</sup>

Construction: 300 CZK- 500 CZK

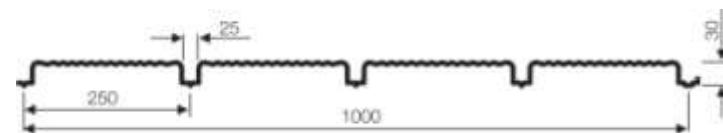
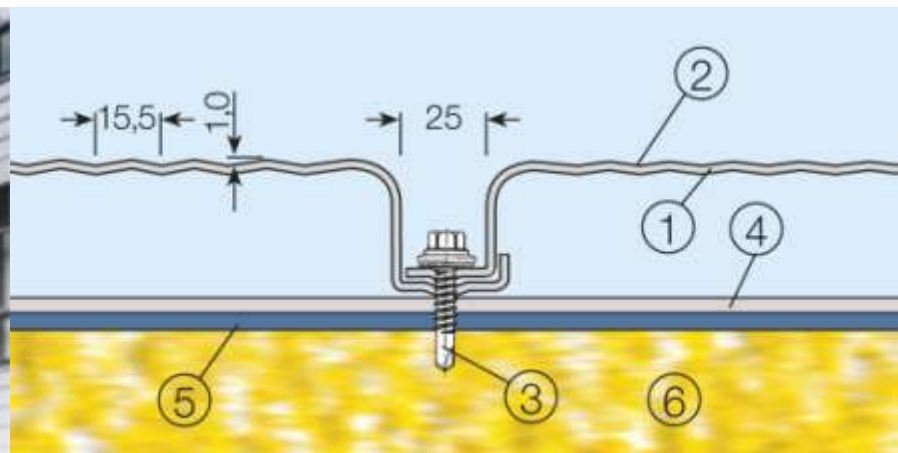
supporting construction included





THE CHEAPEST WALL SYSTEM  
FOR LOW INTERMITTENT  
FACADES





## Fischer Panel 33/250

**Válcovaný** profile – lamelas design

Price: 480 CZK - 550 CZK/m<sup>2</sup>

Construction: 300 CZK - 500 CZK  
 supporting construction included

## Gamme Eclectic

Arval

### Eclectic 7.35.50 B/HB

Plaque nervurée en acier galvanisé ou galvanisé prélaqué pour bardage simple et double peau

#### Référence normative :

Règles professionnelles pour la fabrication et la mise en œuvre des bardages métalliques : Janvier 1981 - 2<sup>ème</sup> édition - 3 fixations minimales par largeur utile.  
Recommandations professionnelles RAGE juillet 2014

| CARACTERISTIQUES DU MATERIAU DE BASE |                                       | NORMES                                                                                |
|--------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| Epaisseur d'acier                    | S 320 GD                              | NF EN 10346                                                                           |
| Type de protection                   | Acier revêtu<br>Acier revêtu prélaqué | NF EN 10346<br>NF EN 10169 + A1<br>XP P 34-310                                        |
|                                      |                                       | Validation sismique selon rapport d'étude CSTB n° DCC/CLC-12-229-1 du 25 février 2013 |



pose verticale



|                       |       |      |
|-----------------------|-------|------|
| Epaisseur (mm)        | 0,63  | 0,75 |
| Masse (kg/m²)         | 8,37  | 9,97 |
| Longueur maximale (m) | 12,00 |      |



Tableau d'utilisation : Charges normales admissibles en daN/m² en fonction des portées d'utilisation (V65 contraintes admissibles)

| A 2 appuis     |      | Portée* (m) | A 3 appuis     |      | pose verticale et horizontale |
|----------------|------|-------------|----------------|------|-------------------------------|
| Epaisseur (mm) | 0,63 | 0,75        | Epaisseur (mm) | 0,63 | 0,75                          |
| 158            | 160  | 2,50        | 160            | 160  | Pression                      |
| 141            | 160  |             | 160            | 160  | Dépression                    |
| 120            | 149  | 2,75        | 160            | 160  | Pression                      |
| 110            | 133  |             | 160            | 160  | Dépression                    |
| 93             | 115  | 3,00        | 160            | 160  | Pression                      |
| 88             | 106  |             | 151            | 160  | Dépression                    |
| 73             | 91   | 3,25        | 156            | 160  | Pression                      |
| 72             | 86   |             | 127            | 155  | Dépression                    |
| 59             | 73   | 3,50        | 131            | 156  | Pression                      |
| 59             | 71   |             | 107            | 132  | Dépression                    |
| 49             | 60   | 3,75        | 107            | 128  | Pression                      |
| 50             | 59   |             | 92             | 114  | Dépression                    |
|                |      | 4,00        | 89             | 106  | Pression                      |
|                |      |             | 79             | 99   | Dépression                    |
|                |      | 4,25        | 75             | 91   | Pression                      |
|                |      |             | 69             | 87   | Dépression                    |
|                |      | 4,50        | 64             | 80   | Pression                      |
|                |      |             | 61             | 77   | Dépression                    |
|                |      | 4,75        | 55             | 70   | Pression                      |
|                |      |             | 54             | 69   | Dépression                    |

\* Au-delà de 2 m, uniquement en simple peau. Pour dimensionnement sous charges Eurocode (états limites), nous consulter

## Gamme Eclectic

Arval

### Eclectic 7.61.50 B/HB

Plaque nervurée en acier galvanisé ou galvanisé prélaqué pour bardage simple et double peau

#### Référence normative :

Règles professionnelles pour la fabrication et la mise en œuvre des bardages métalliques : Janvier 1981 - 2<sup>ème</sup> édition - 3 fixations minimales par largeur utile.  
Recommandations professionnelles RAGE juillet 2014

| CARACTERISTIQUES DU MATERIAU DE BASE |                                       | NORMES                                                                                |
|--------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| Epaisseur d'acier                    | S 320 GD                              | NF EN 10346                                                                           |
| Type de protection                   | Acier revêtu<br>Acier revêtu prélaqué | NF EN 10346<br>NF EN 10169 + A1<br>XP P 34-310                                        |
|                                      |                                       | Validation sismique selon rapport d'étude CSTB n° DCC/CLC-12-229-1 du 25 février 2013 |



pose verticale



|                       |       |      |
|-----------------------|-------|------|
| Epaisseur (mm)        | 0,63  | 0,75 |
| Masse (kg/m²)         | 8,37  | 9,97 |
| Longueur maximale (m) | 12,00 |      |



Tableau d'utilisation : Charges normales admissibles en daN/m² en fonction des portées d'utilisation (V65 contraintes admissibles)

| A 2 appuis     |      | Portée* (m) | A 3 appuis     |      | pose verticale et horizontale |
|----------------|------|-------------|----------------|------|-------------------------------|
| Epaisseur (mm) | 0,63 | 0,75        | Epaisseur (mm) | 0,63 | 0,75                          |
| 158            | 160  | 2,50        | 160            | 160  | Pression                      |
| 141            | 160  |             | 160            | 160  | Dépression                    |
| 120            | 149  | 2,75        | 160            | 160  | Pression                      |
| 110            | 133  |             | 160            | 160  | Dépression                    |
| 93             | 115  | 3,00        | 160            | 160  | Pression                      |
| 88             | 106  |             | 151            | 160  | Dépression                    |
| 73             | 91   | 3,25        | 156            | 160  | Pression                      |
| 72             | 86   |             | 127            | 155  | Dépression                    |
| 59             | 73   | 3,50        | 131            | 156  | Pression                      |
| 59             | 71   |             | 107            | 132  | Dépression                    |
| 49             | 60   | 3,75        | 107            | 128  | Pression                      |
| 50             | 59   |             | 92             | 114  | Dépression                    |
|                |      | 4,00        | 89             | 106  | Pression                      |
|                |      |             | 79             | 99   | Dépression                    |
|                |      | 4,25        | 75             | 91   | Pression                      |
|                |      |             | 69             | 87   | Dépression                    |
|                |      | 4,50        | 64             | 80   | Pression                      |
|                |      |             | 61             | 77   | Dépression                    |
|                |      | 4,75        | 55             | 70   | Pression                      |
|                |      |             | 54             | 69   | Dépression                    |

\* Au-delà de 2 m, uniquement en simple peau. Pour dimensionnement sous charges Eurocode (états limites), nous consulter

**ECLECTIC Steel with coating 25-65my, PS, PVDF či PU, 2 wave heights, lenght up to 12m**  
**Price: 400 CZK – 750 CZK**  
**Construction: 300 CZK- 500 CZK**  
**supporting construction included**

Ce produit peut être posé en vertical ou en horizontal. Il est toutefois à noter que la pose horizontale peut entraîner un enrassement notable des ondes.

Les produits de la gamme Eclectic peuvent être mariés entre eux, sauf dans le cas d'un revêtement métallisé.

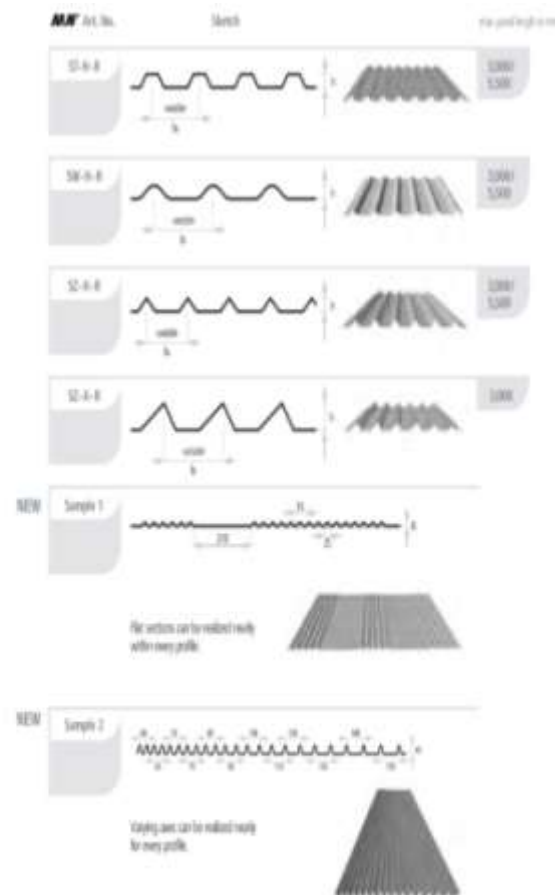
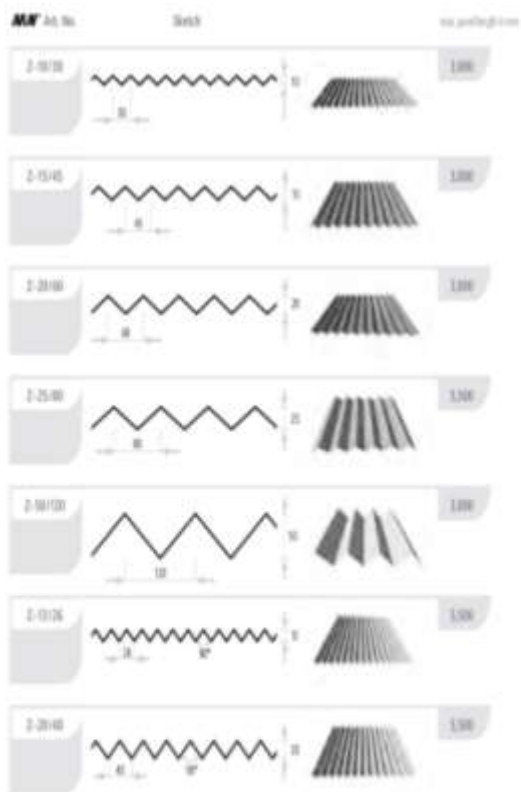
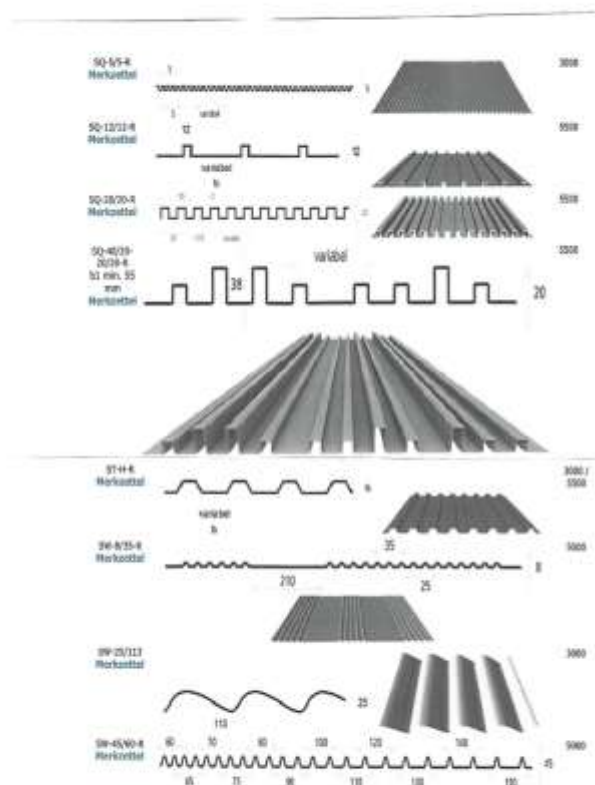
Esthétique unique  
 Effet d'ombre et de matière  
 Compatible avec les systèmes d'Isolation thermique par l'extérieur (ITE)  
 Design et Industrie

Ce produit peut être posé en vertical ou en horizontal. Il est toutefois à noter que la pose horizontale peut entraîner un enrassement notable des ondes.

Les produits de la gamme Eclectic peuvent être mariés entre eux, sauf dans le cas d'un revêtement métallisé.

Esthétique unique  
 Effet d'ombre et de matière  
 Compatible avec les systèmes d'Isolation thermique par l'extérieur (ITE)  
 Design et Industrie





For outdoor use SW provides these fertilized profiles with a variable screw plate (eg. S2-25/25-8, find more profiles in Group 5, pages 11, 12 and 13).



The basic forms for Group 5 can be found under Group WIT and Z. The quoted dimensions between uses are minimum. The dimensions between uses in Group 5 can be increased variably through use of vertical plates.



CANTO



SEGA



CIMA



VALLE



Price: Steel or Aluminium:

650 CZK – 1800 CZK

Construction: 400 CZK- 600 CZK

supporting construction included

## CTP – Continental, Ostrava Realization.

Wave pitching adjusted to the  
architect's request.

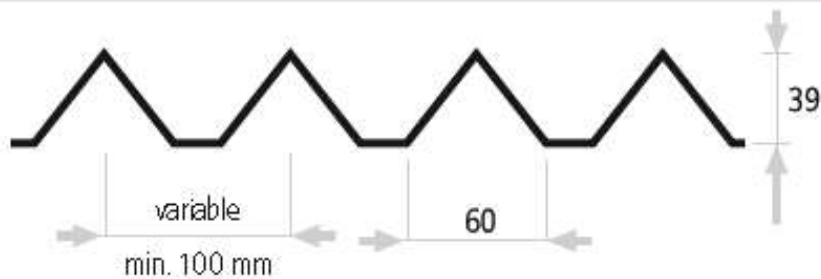
SZ – 39/60 – R, steel with PS 25my coating

Price: 650 CZK – 750 CZK

Construction: 300 CZK- 500 CZK  
supporting construction included



SZ-39/60-R



5,500



SZ – 39/60 – R , steel with coating

Price: 650 CZK – 750 CZK

Construction: 300 CZK- 500 CZK  
supporting construction included



SQ profile 20/20 – R40  
steel or aluminium+ PE  
9010 and 9005  
Price: 650 CZK - 1500  
CZK  
Construction: 400 CZK-  
600 CZK  
supporting  
construction included





sinusoidal profile 27/111,  
steel or Al

Price: 270 CZK – 350  
CZK/m<sup>2</sup>

Construction: 500 CZK-  
950 CZK  
supporting construction  
included



## Realization with trapezoidal and sinusoidal (waves) profiles with perforation



Profile SP 135/310 aku  
30/30 Design  
Price: 550 CZK – 890  
CZK/m<sup>2</sup>  
Construction: 500 CZK-  
800 CZK  
supporting construction  
included





## Samples of using trapezoidal profiles MN Mettal 2



SQ profil 20/20 – variable Al + Elox Sandalor

Price: 1900 CZK - 2400 CZK

Construction: 500 CZK- 800 CZK  
supporting construction included



SW Al 45/60 Irregular Al NCS 2060

Price: 1800 CZK – 2300 CZK

Construction: 400 CZK- 600 CZK

supporting construction included



SQ-AI - 40/20-20/20 variab raster, partial perforation  
 Rv 5-7, Al 55HX® 1 mm, gold elox Sandalor, E6/S120-0  
 Price: 1500 CZK - 2400 CZK  
 Construction: 400 CZK- 800 CZK  
 supporting construction included





**Material:**

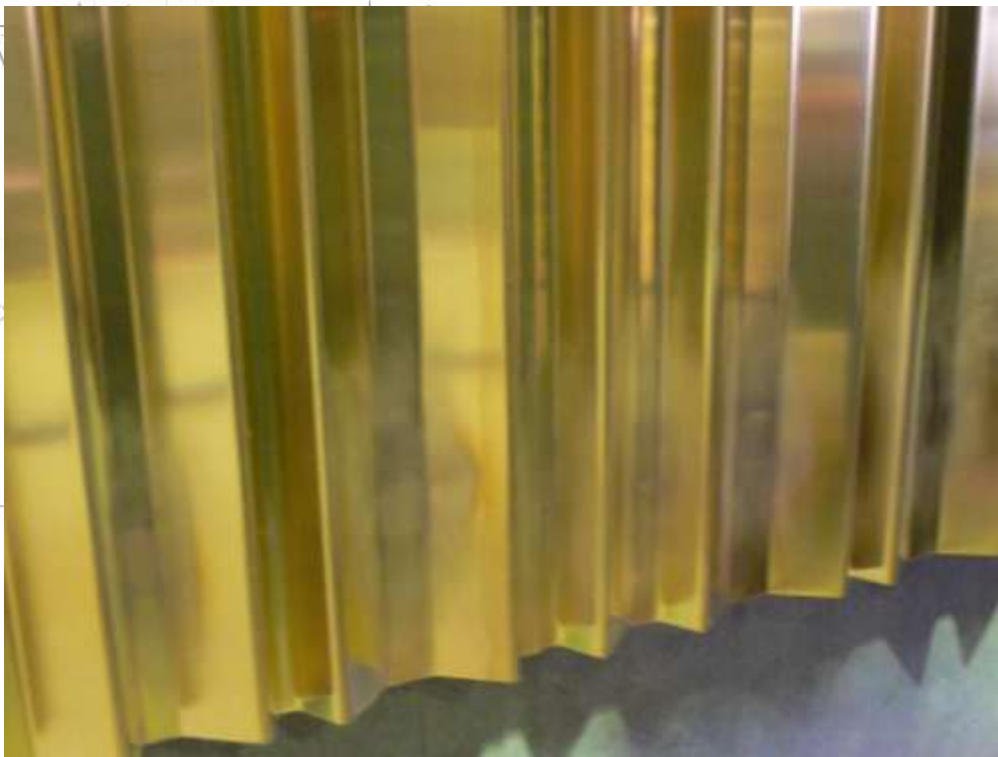
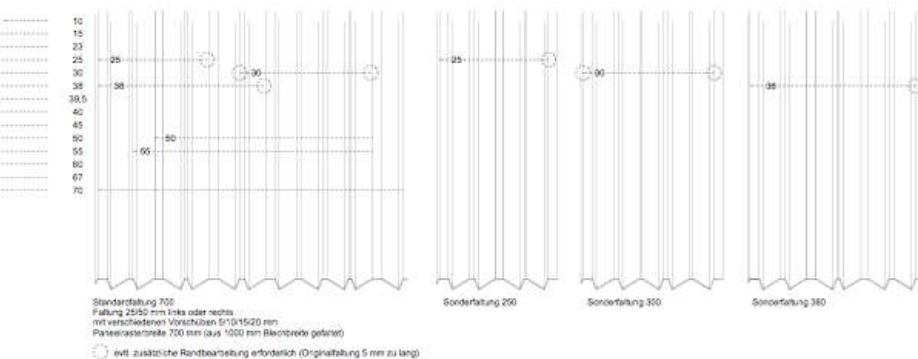
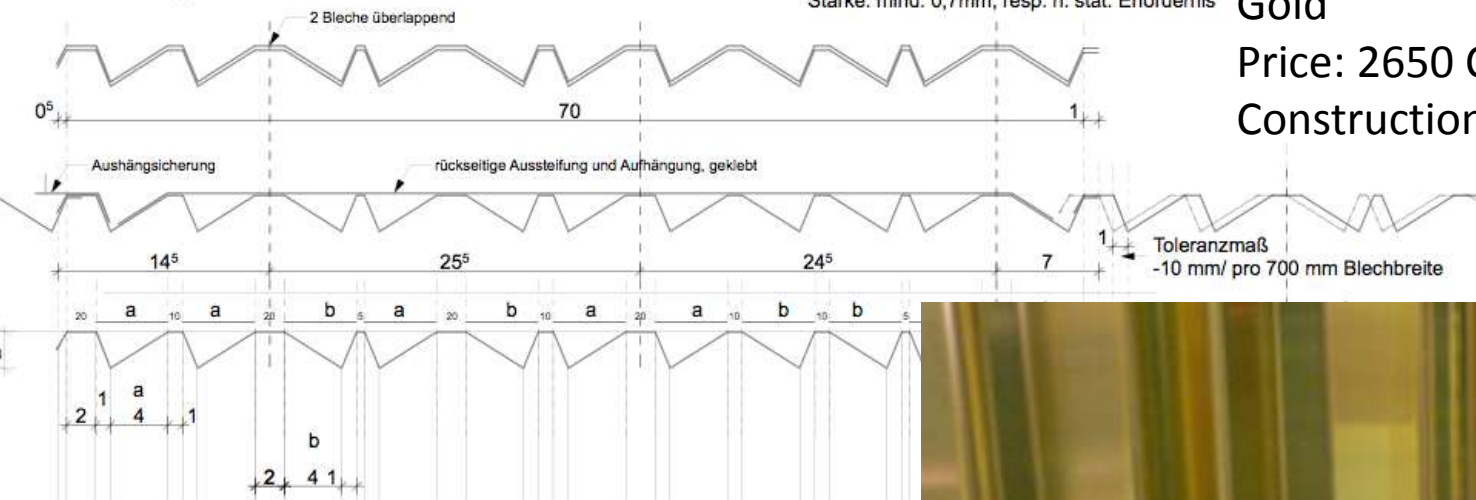
gekantetes Messingblech TECU Brass  
Breite: 700 mm, Tiefe: 27 mm  
Sonderprofilblech mit Sicken SZ 25/50 R  
Stärke: mind. 0,7mm, resp. n. stat. Erfordernis

SZ 25/50 hl. 27, tl. 0,7 mm Tecu Gold

Price: 2650 CZK – 2950 CZK

Construction: 600 CZK – 1200 CZK

**Faltungen für Wand- und Dachflächen**





SZ 25/50 hl. 27, tl. 0,7 CU Tecu Gold

Price: 2600 CZK – 2950 CZK/m<sup>2</sup>

Construction: 600 CZK- 1200 CZK

supporting construction included



**Widmi Housing, Lenzburg (CH) Montafarm  
 Design 35-5/250 in 4 colors**

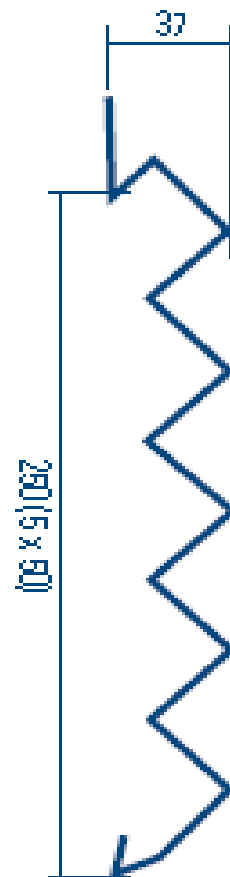
Montaform Design 35-5/250

Price: 850 CZK – 1150 CZK

Construction: 500 CZK – 1000 CZK

## MONTAFORM design

- Alternative to „common,, trapezoidal profiles
- design / favorable price
- Hidden anchoring
- 6 types of full or partial perforation
- Combination of different color on one profile





## Residential houses Cham

Montafom Design 35-  
5/250 Al natur, partly  
perforated

Price: 950 CZK – 1200 CZK  
Construction: 500 CZK –  
1000 ĆZK





## Sawtooth profiles – MONTAFORM Design with perforation



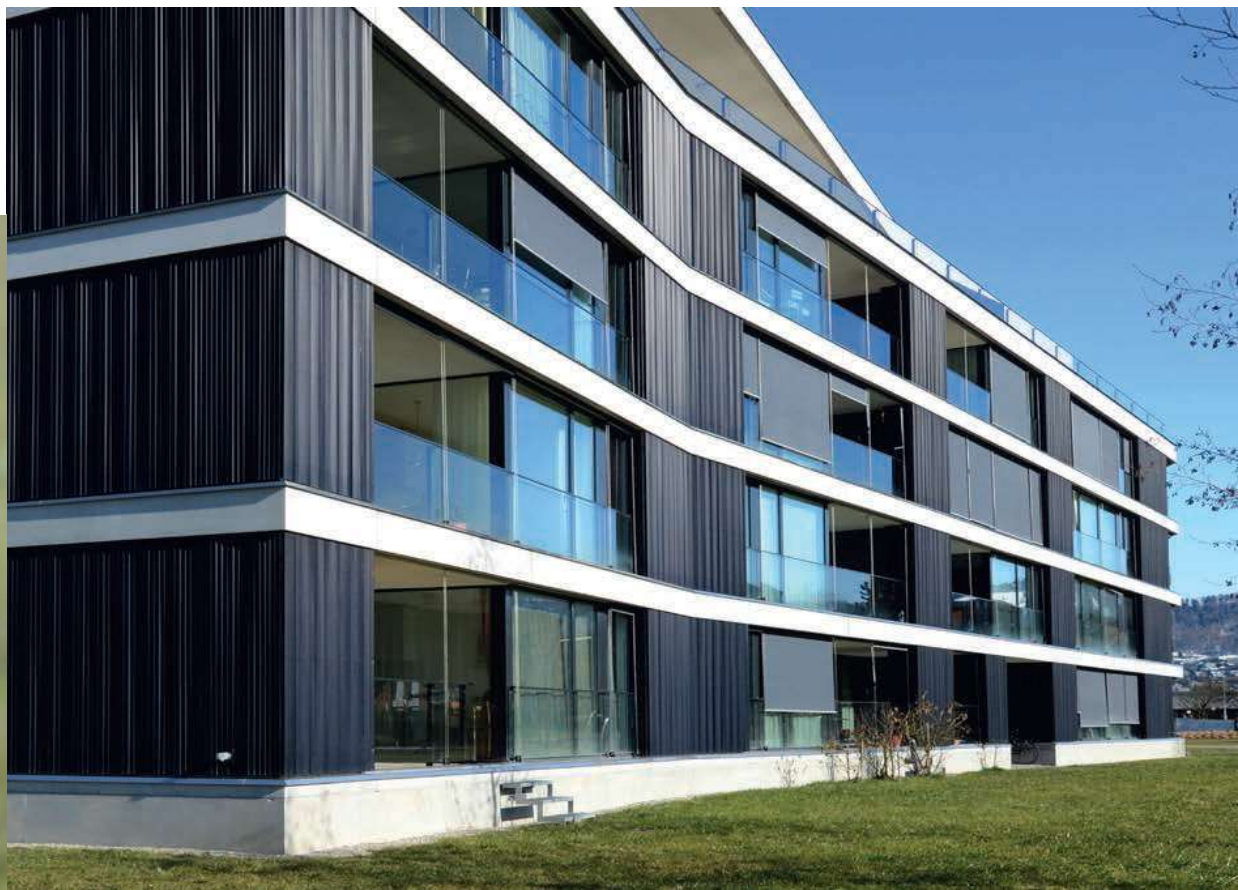
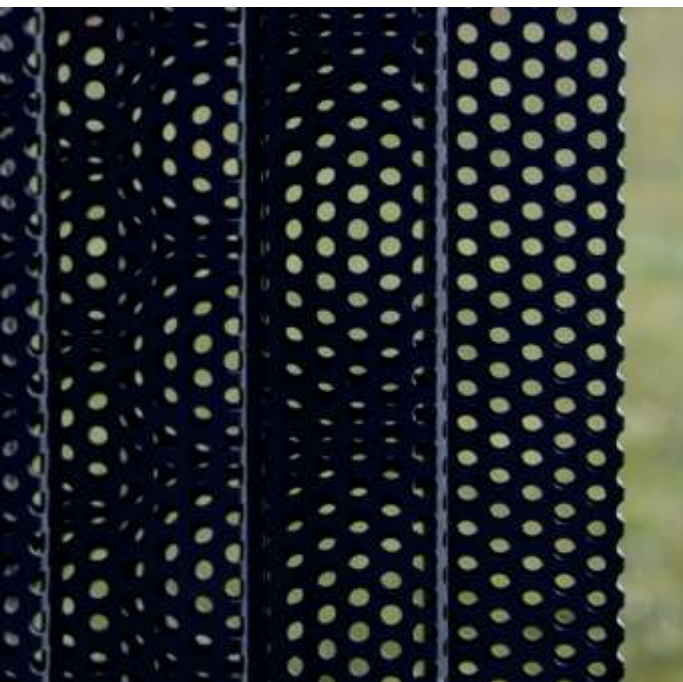
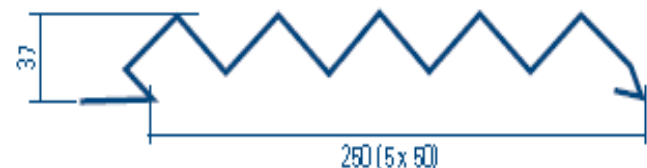
**Riedepark, Zug (CH)**

Montaform Design 35-5/250 Elox

Montafom Design 35-5/250 Al elox with perforation

Price: 1020 CZK – 1250 CZK

Construction: 500 CZK – 1000 CZK





## Sawtooth profiles – MONTAFORM Design, stainless steel



Montafom Design 35-5/250  
Al elox with perforation  
Price: 1020 CZK – 1250 CZK  
Construction: 600 CZK– 1000 CZK



Montaform Design 35-5/250  
Price: 850 CZK – 1150 CZK  
Construction: 500 CZK – 1000 CZK



## Sawtooth profiles – MONTAFORM Design, stainless steel



Montaform Design 35-5/250 Al blank

Price: 1020 CZK – 1135 CZK

Construction: 700 CZK – 1000 CZK



Montaform Design 35-5/250 Titanoptil

Cena: 1260 Kč – 1390 Kč

Construction: 600 CZK – 1000 CZK

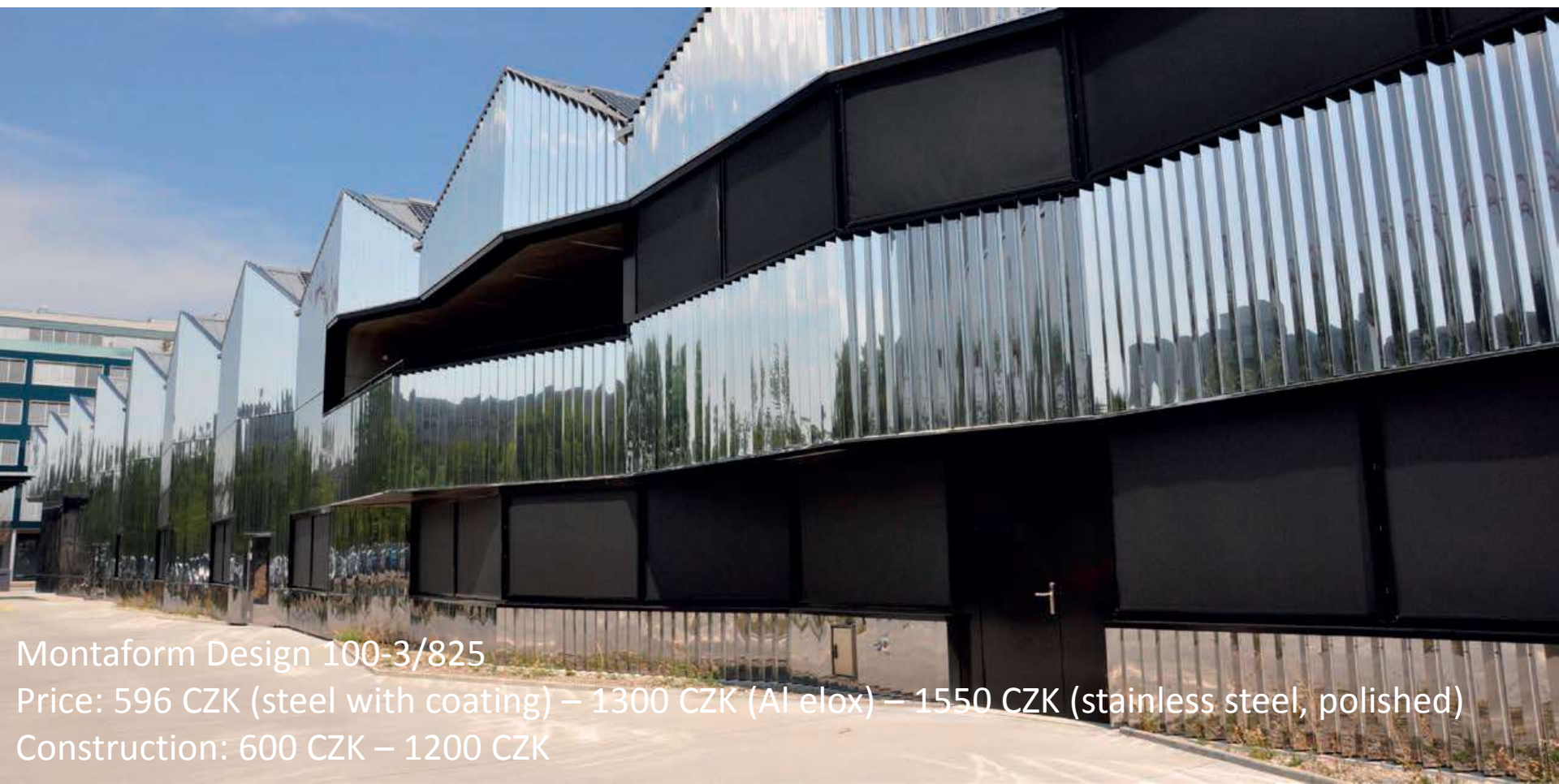




## Sawtooth profiles – MONTAFORM Design, stainless steel



Bus depot, GRUTZEFELD(CH)



Montaform Design 100-3/825

Price: 596 CZK (steel with coating) – 1300 CZK (Al elox) – 1550 CZK (stainless steel, polished)

Construction: 600 CZK – 1200 CZK



XXXX

Price: XXX CZK

Construction: XXX CZK



XXXX

Price: XXX CZK

Construction: XXX CZK



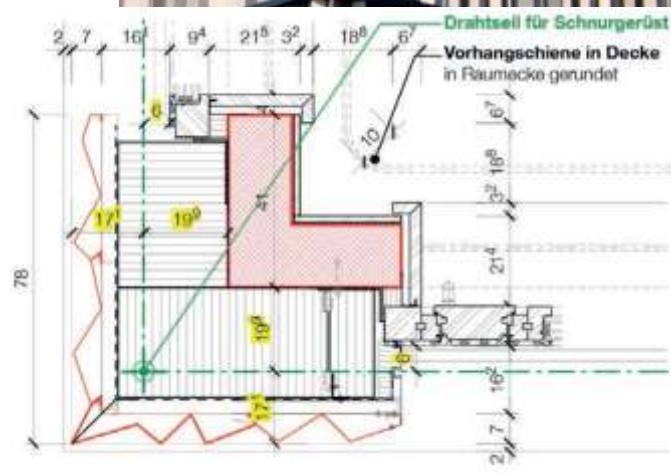
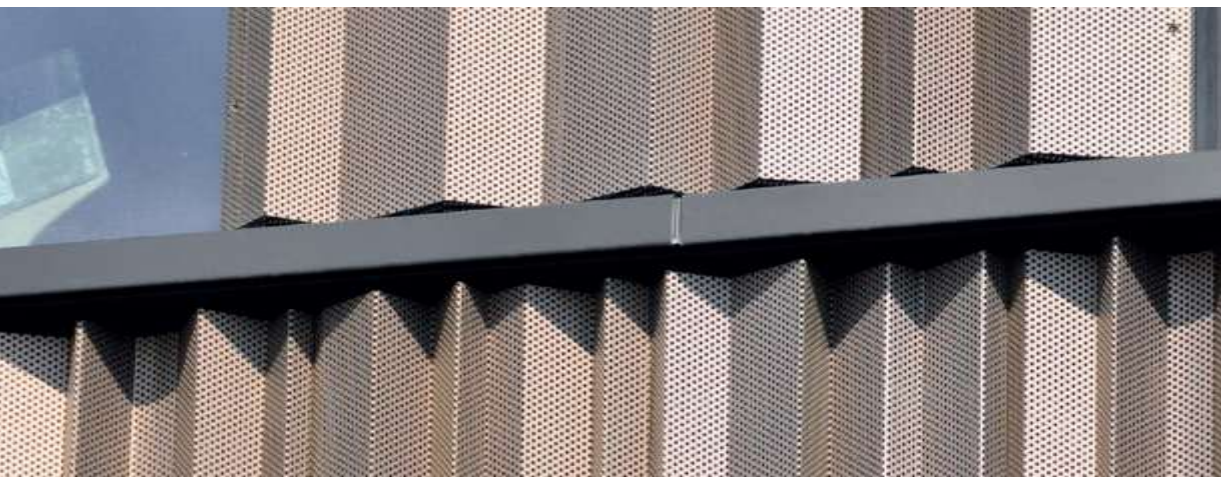
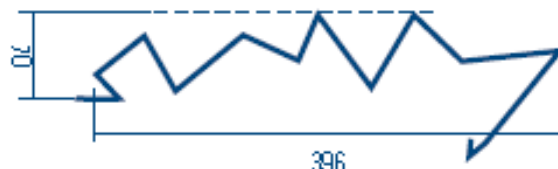
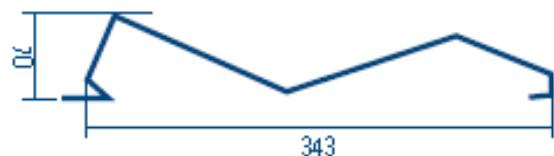
XXXX

Price: XXX CZK

Construction: XXX CZK



**ST. JOSEF FOUNDATION (CH)** 30 variable Al elox perfo  
 Price: 1500 CZK - 2100 CZK/m<sup>2</sup>  
 Construction: 700 CZK - 1000 CZK



## **ST. JOSEF FOUNDATION**

30 variable Al elox perfo

Price: 1500 CZK - 2100 CZK/m<sup>2</sup>

Construction: 700 CZK - 1000 CZK





## Sinusoidal profiles (waves profiles)



- For faccades, produced from galvanized and painted steel of alu. Delivered in the high of the profiles 18 till 55 mm. Suitable for isolated and non-isolated objects. Interior sinusoidal profiles from wool height 2mm. Elegant appearance, low price and wide range of applications.

### Sample of using

Wave 42/160 steel with coating PE 9006

Price: 250 CZK - 280 CZK

Construction: 300 CZK- 600 CZK

supporting construction included

Wave 27/100 steel with coating PE 9006

Price: 240 CZK - 270 CZK

Construction: 300 CZK- 600 CZK

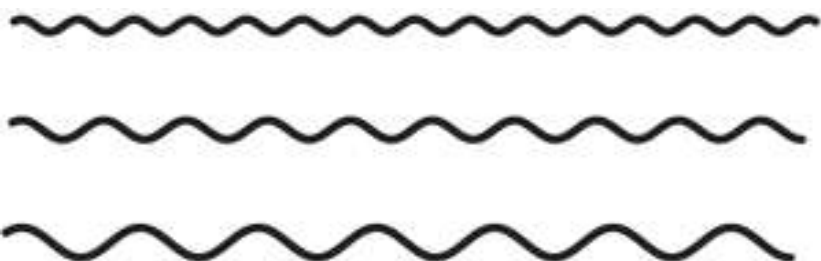
supporting construction included



Sipral – sídlo firmy



Agromex – Čestlice



**HADOVKA – OFFICE PARK – Praha**





Wave 27/100 Al natur perfo  
Price: 650 CZK – 700 CZK  
Construction: 500 CZK – 1000 CZK



W-27/100, Al natur 1-2 mm

Cena: 450 Kč – 800 Kč

Montáž: 500 Kč – 1000 Kč

Aluminium walzblank, Eloxalqualität, Materialdicke: 2mm, holes 10-50mm

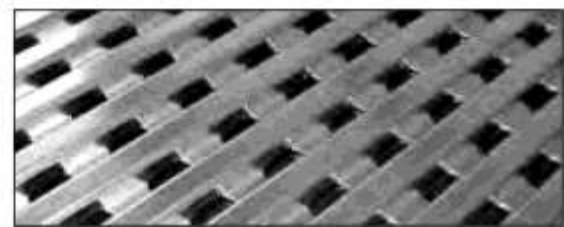
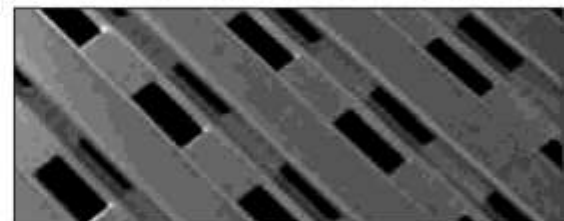
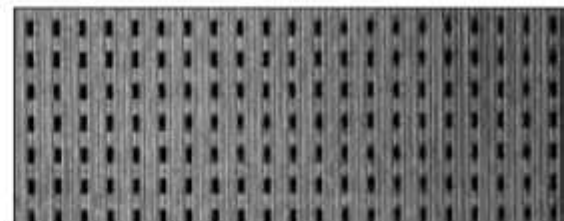
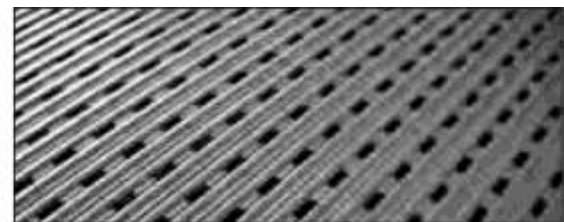
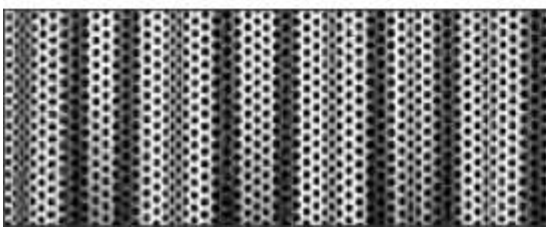
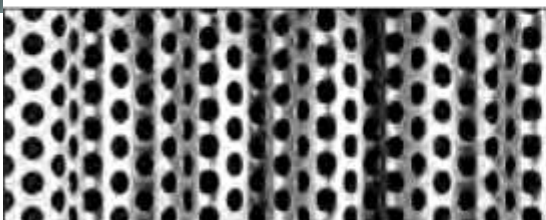
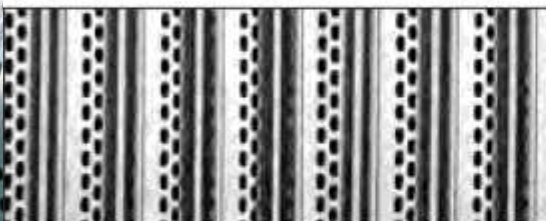
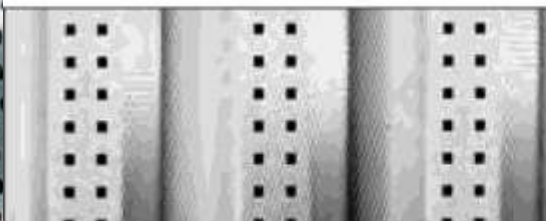
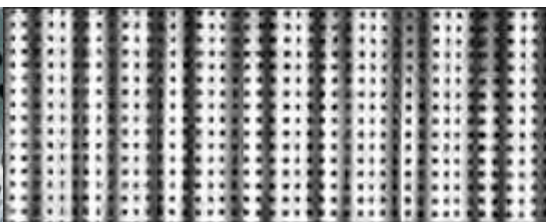
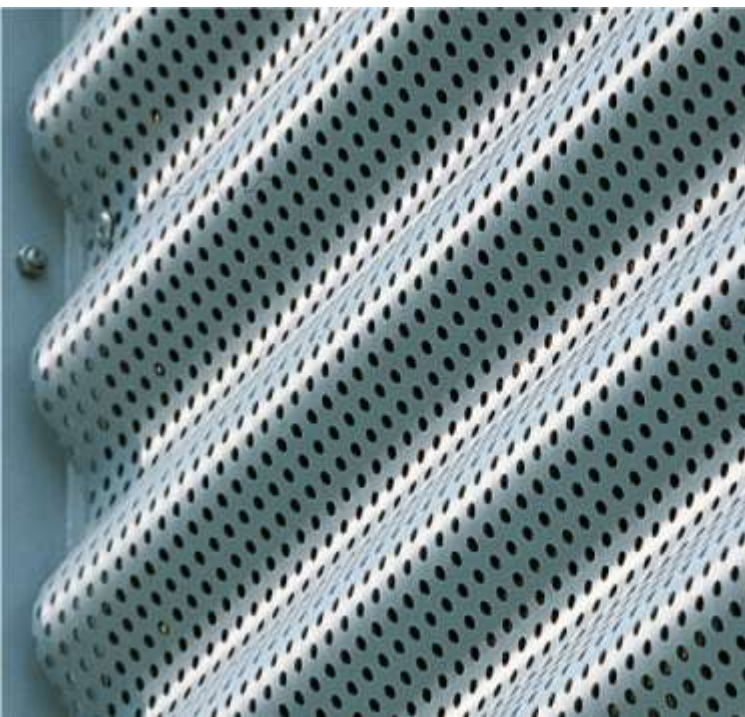
Price: 800 CZK – 900 CZK

Construction: 500 CZK- 1000 CZK

supporting construction included



AL plechy tl. 1-, 2 - 3 mm,  
eloxated or coated  
Price: 500 CZK – 800 CZK



Types of perforation  
Samples of designs



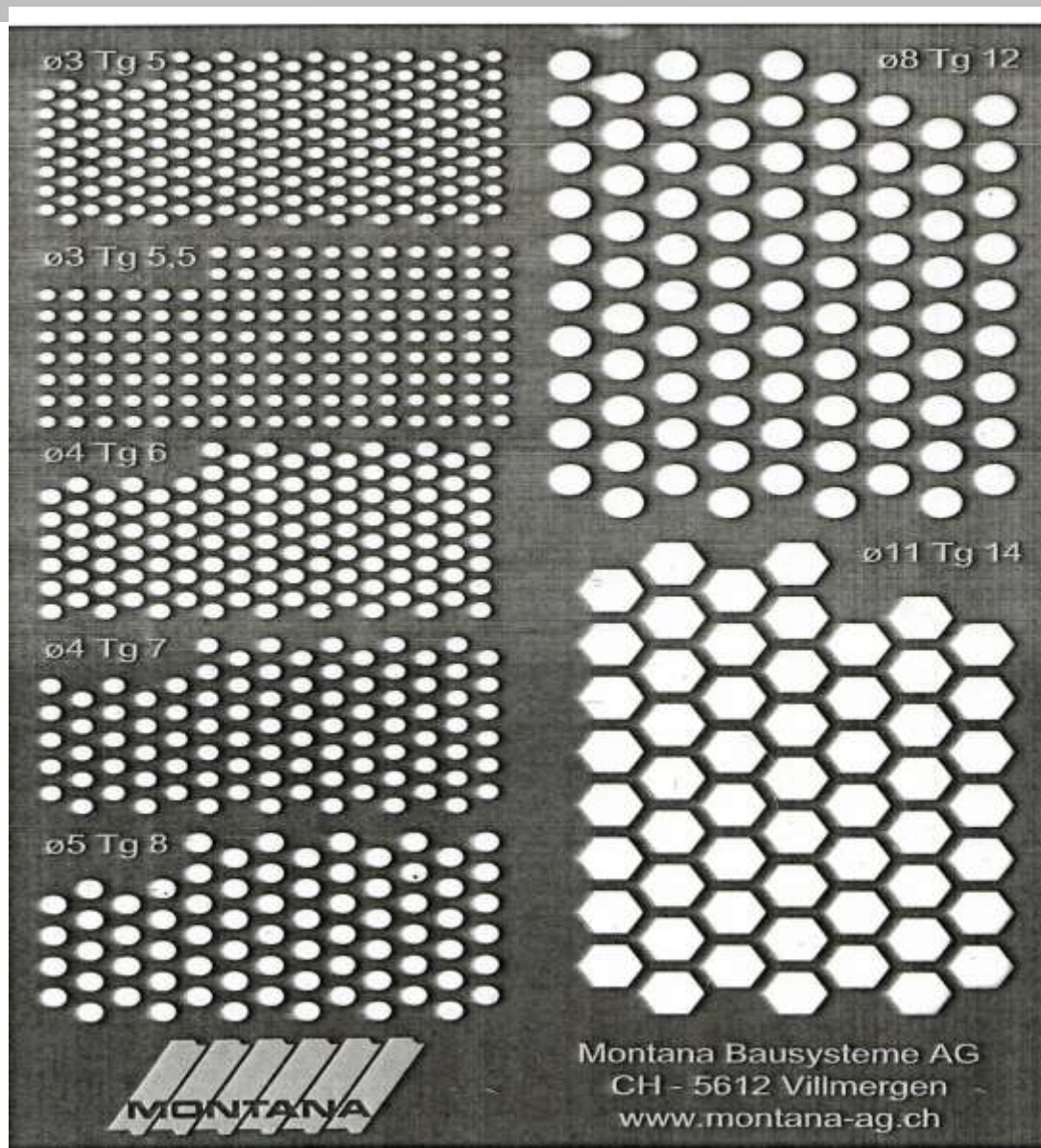
Types of perforation

Samples of designs

Tracked perforation

Price for regular all over  
perforation:

50 CZK – 120 CZK/m<sup>2</sup>









SWISS PANEL® SP 80/277, MONTALINE® ML 26/300  
G, MONTALINE® ML 26/300 G-K as shading

Price: 790 CZK – 890 CZK

Construction: 500 CZK – 700 CZK





# Sample of using with perofated trapezoidal profile





Samples of using trapezoidal and sinusoidal profiles with all over perforation for garage or shopping centre



Parking house - Switzerland

TR 45/150 Al perfo 11/14

Price: XXXX CZK

Construction: 300 CZK- 700 CZK  
 supporting construction included



Shopping center- Německo

Wave 18/76 steel with coating + Prisma 65 my +  
with partial perforation and partial **zakružený**

Price: 700 CZK – 1050 CZK

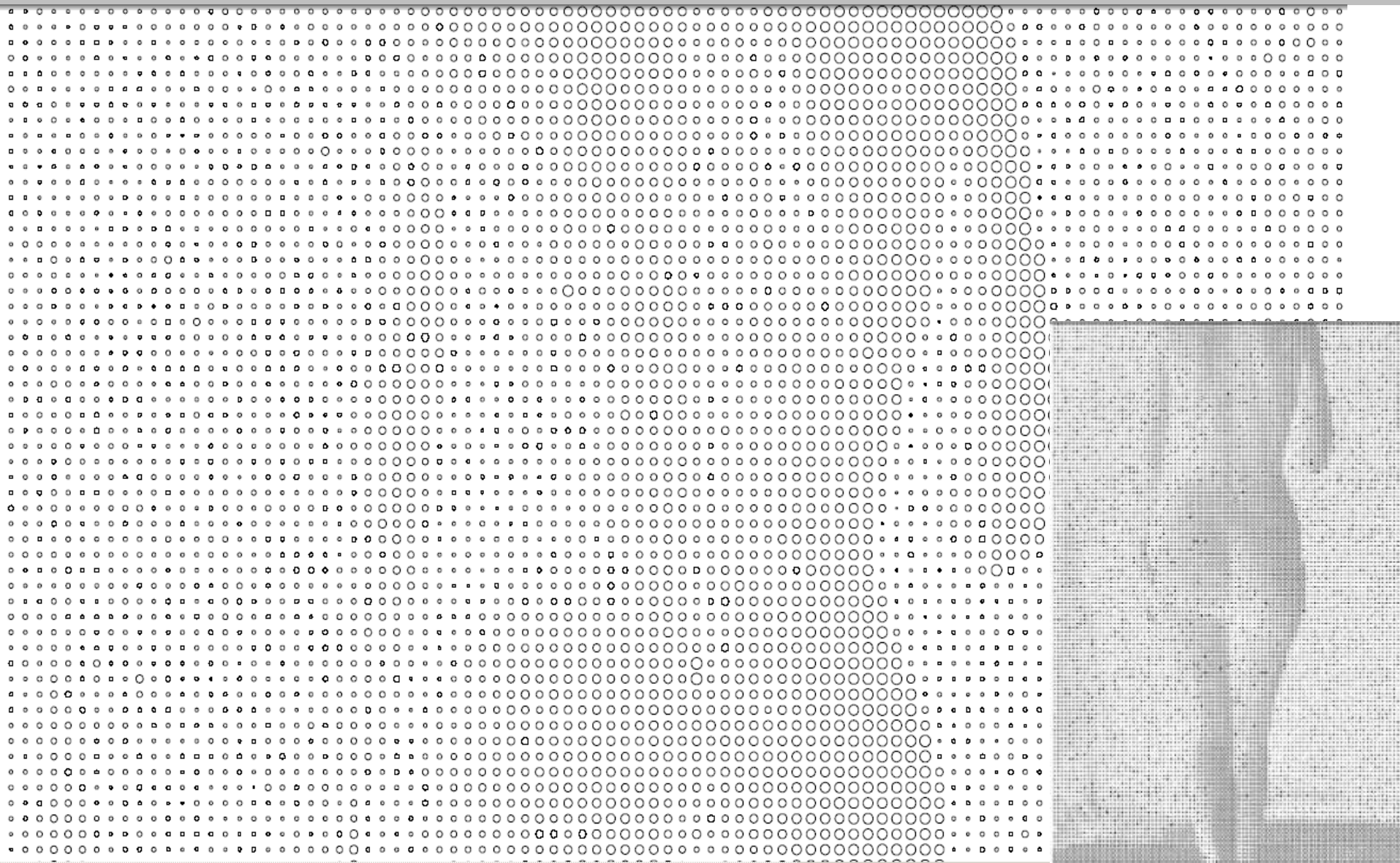
Construction: 500 CZK – 700 CZK





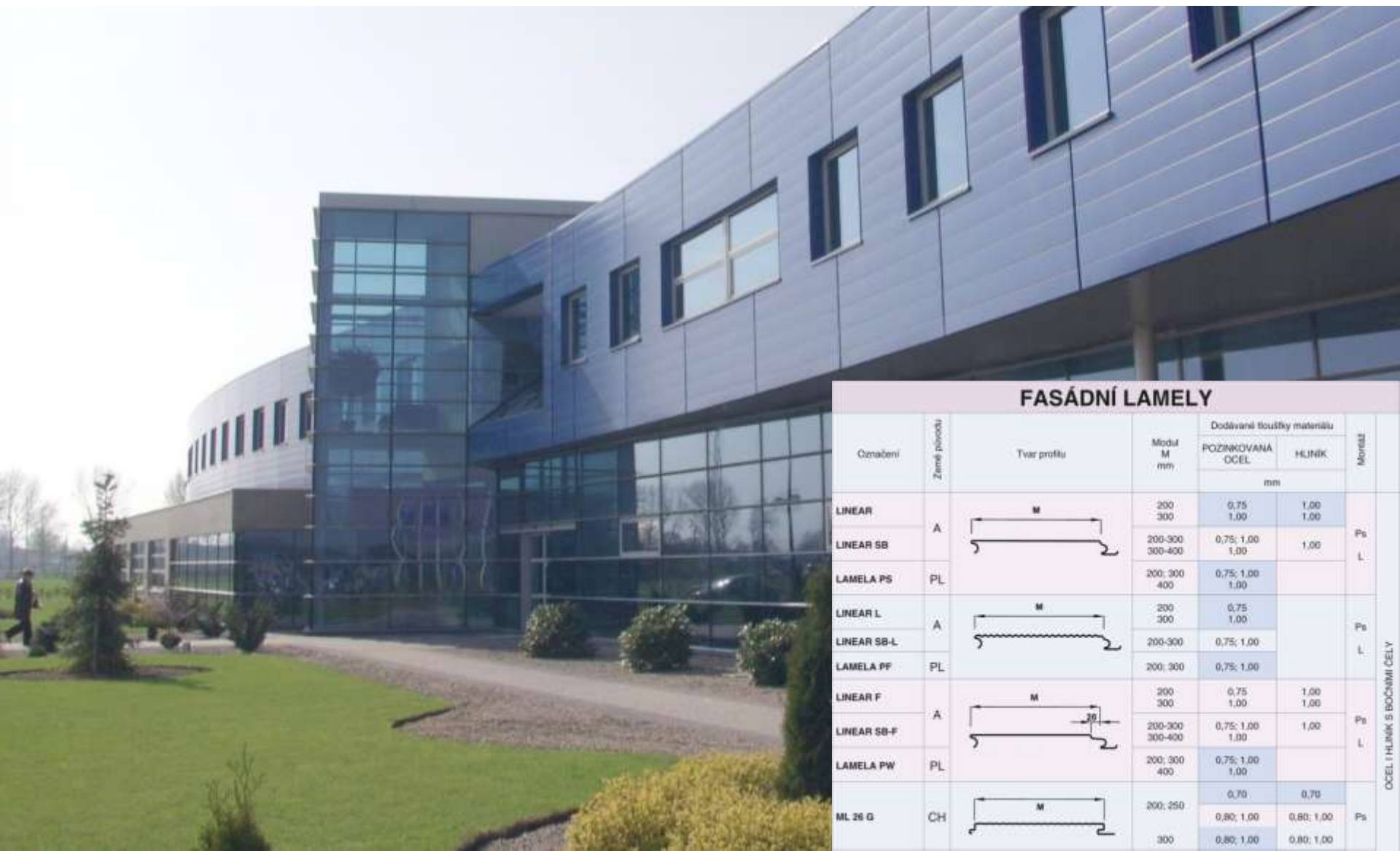
## Sample of using with perofated waves profiles





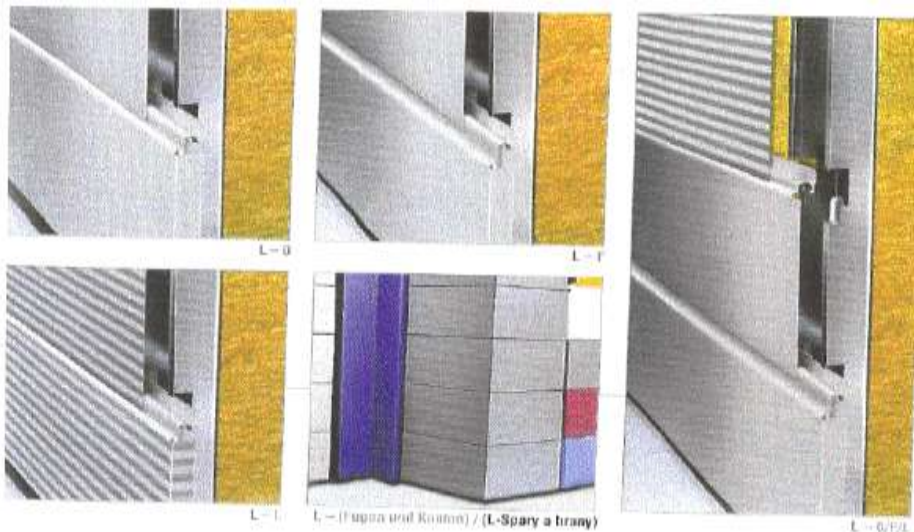


**Teapeutic center  
Austria**



| FASÁDNÍ LAMELY |             |                                                                                       |                    |                             |                          |         |
|----------------|-------------|---------------------------------------------------------------------------------------|--------------------|-----------------------------|--------------------------|---------|
| Označení       | Země původu | Tvar profilu                                                                          | Modul<br>M<br>mm   | Dodávání tloušťky materiálu |                          | Montáž  |
|                |             |                                                                                       |                    | POZINKOVANÁ<br>OCEĽ         | HLINÍK                   |         |
|                |             |                                                                                       |                    | mm                          |                          |         |
| LINEAR         | A           |   | 200<br>300         | 0,75<br>1,00                | 1,00<br>1,00             | Ps<br>L |
| LINEAR SB      |             |                                                                                       | 200-300<br>300-400 | 0,75; 1,00<br>1,00          | 1,00                     |         |
| LAMELA PS      | PL          |                                                                                       | 200; 300<br>400    | 0,75; 1,00<br>1,00          |                          |         |
| LINEAR L       | A           |  | 200<br>300         | 0,75<br>1,00                |                          | Ps<br>L |
| LINEAR SB-L    |             |                                                                                       | 200-300            | 0,75; 1,00                  |                          |         |
| LAMELA PF      | PL          |                                                                                       | 200; 300           | 0,75; 1,00                  |                          |         |
| LINEAR F       | A           |  | 200<br>300         | 0,75<br>1,00                | 1,00<br>1,00             | Ps<br>L |
| LINEAR SB-F    |             |                                                                                       | 200-300<br>300-400 | 0,75; 1,00<br>1,00          | 1,00                     |         |
| LAMELA PW      | PL          |                                                                                       | 200; 300<br>400    | 0,75; 1,00<br>1,00          |                          |         |
| ML 26 G        | CH          |  | 200; 250           | 0,70                        | 0,70                     | Ps      |
|                |             |                                                                                       | 300                | 0,80; 1,00<br>0,80; 1,00    | 0,80; 1,00<br>0,80; 1,00 |         |

OCEĽ I HLINÍK S BOČNÍM ČEJ



Hoffmann



RENAULT - Prague



**INTERSPAR – Mladá Boleslav**



Lamela IDEAL – Dekmetal ocel povlěkaná  
Cena: 550–900 Kč/m<sup>2</sup>  
Montáž vč. spodní konstrukce : 700–900 Kč

**SPORT HALL,  
NEBOVIDY**



**ADMINISTRATION  
BUILDING -SECO TOOLS,  
BRNO**





### **Advantages of facade lamelas:**

- Machinely roll – production, good design and quality with low price
- Without the risk of unregular unevenness until the module of 400mm
- The possibility of the delivery long and short profiles also with forehead banding – better rigidity of the plate and less risk of waves

### **Disadvantages of facade lamelas :**

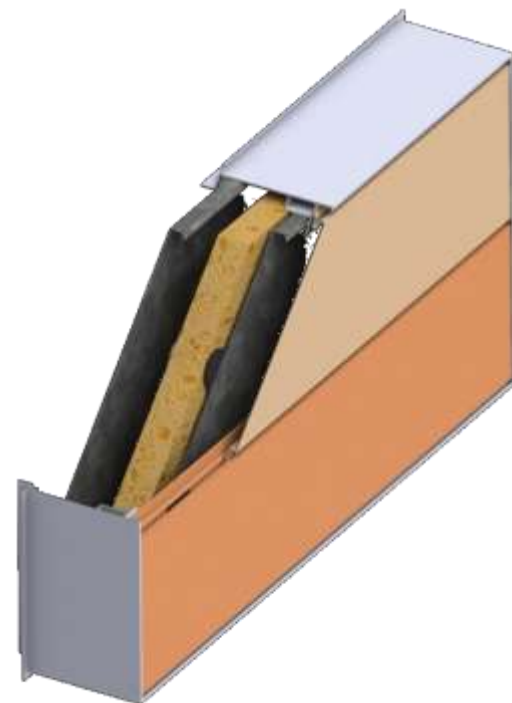
- For even desing is necessary the an absolute level of supporting contruction
- Better the thickness minimal 1,00mm, otherwise there is a big risk of non-ideal flatness of the facade
- Maximal recommended module of 400mm
- Maximal lenght up to 6000mm



## System Saray COTTA

### Facade lamelas from extruded aluminium

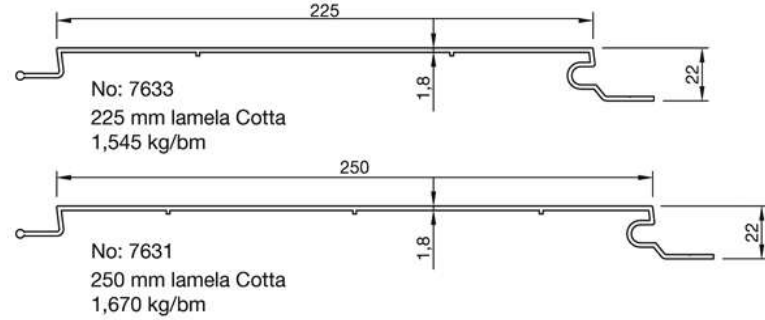
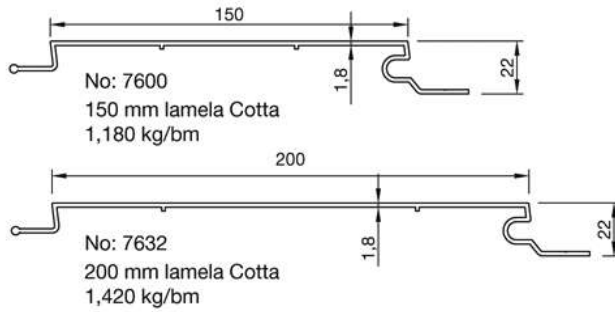
- Solid aluminium 1,8 mm - weight 6–8 g/m<sup>2</sup>
- Anodized aluminium or powder coating
- Possible design CERAMICS – the same look, less weight.



XXX

Price: XXX CZK

Construction: XXX CZK



## Saray Cotta – Analiz Örneği / Analysis Sample

(1,20 m x 3,12 m = 3,744 m<sup>2</sup> için) (1 m<sup>2</sup>-7,72 kg)

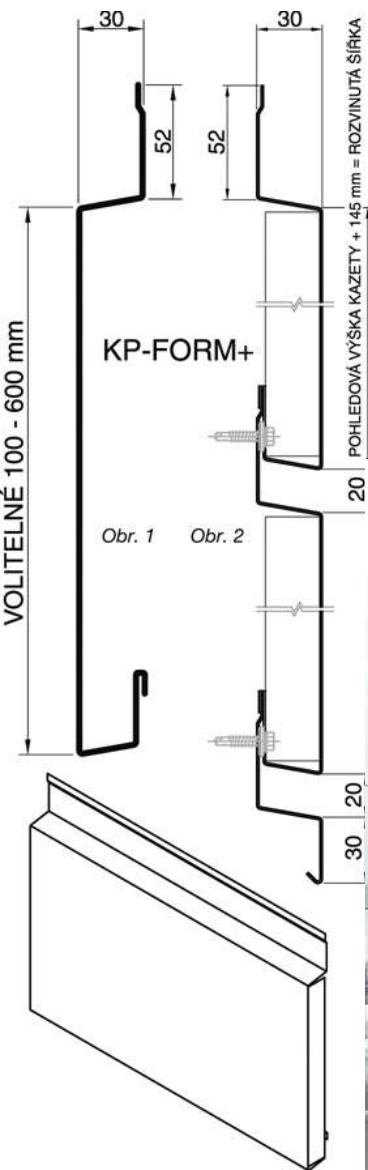
| Malzemenin Cinsi                     | Birim                                                  | Miktar                        | Toplam   |
|--------------------------------------|--------------------------------------------------------|-------------------------------|----------|
| 7601 Dikme profili                   | 0,870 kg/m                                             | 6,240 m<br>(3,12 m x 2 ad)    | 5,43 kg  |
| 7631 250'lik cotta                   | 1,670 kg/m                                             | 14,064 m<br>(0,586 m x 24 ad) | 23,49 kg |
| 80 x 150 Ana Braket                  | 3 adet                                                 | 1 adet                        | 3 adet   |
| 80 x 80 Ara Braket                   | 3 adet                                                 | 1 adet                        | 3 adet   |
| Epil 200                             | 2 adet                                                 | 24 adet                       | 48 adet  |
| 4,8 x 15 mm<br>Geniç Kafa Pop Perçin | 3 x 3 = 9 ad (Ana braket)<br>3 x 1 = 3 ad (Ara braket) | 9 ad+3 ad                     | 12 ad    |
| Çelik Dübel (paslanmaz)              | 3 x 2 = 6 ad (Ana braket)<br>3 x 1 = 3 ad (Ara braket) | 9 ad+3 ad                     | 12 ad    |

*Uyarr.ProfU ağırlıklarımız teorik olup; teslim anındaki tartımız geçerlidir.*





## Facade cassettes



Facade cassettes Al natur 3 mm (requested perfo)

Price: 1800 CZK - 2800 CZK

Construction: 900 CZK - 1500 CZK







# Extruded profiles BINDER

Aluminium  
Stainless steel  
Copper etc.

For interiors, facades,  
suspended ceiling  
For exteriors





Extruded profile wave Al elox or coating or stainless steel

Price: 3700 CZK – 5000 CZK

Construction: 1200 CZK – 1500 CZK



EXTRUDED PROFILES for  
interiors





## Facade cassettes



### **Advantages:**

Large formats, custom production quadrat or rhomboid forms

Partly hand-production, partly machine production

More systems KP-FORM+ production in Prague, Liberta – production in Finland, Alumetal – production in Italy, aj.)

**Intermediate stage between facade lamelas-siding and composit plates.**

**Optimal for high buildings with required fire-resistance facade**

### **Disadvantages:**

It is necessary to have absolutely flat supporting construction, correct drawings and assembly staff having in order to eliminate the efect of thermal expansivity of the material. Minimal thickness of 1,0 or 1,25mm by steel, better 1,5mm, by Aluminium 2 or 3mm  
module typical 400-800 mm, length max. 3000 mm, otherwise it is necessary to use special alloy



- Many production and qualities (ALPOLIC, ALUBOND, SARAY etc.)
- Highly recommended to prescribe the alloy, thickness of the plates and sheets, type of core and type and thickness of event. painting
- Composite panels consist of two mainly (but not only – by Alpolic also other metals..) aluminium sheets connected by the core in thickness of 2-6 mm
- **Optimal for a large representative facade walls of all types of buildings**
- Fire-resistance from F-D (types with polyethylen core - PE), B (types „fr“) and A2
- Lightweight – Lighter than solid metals of equivalent rigidity



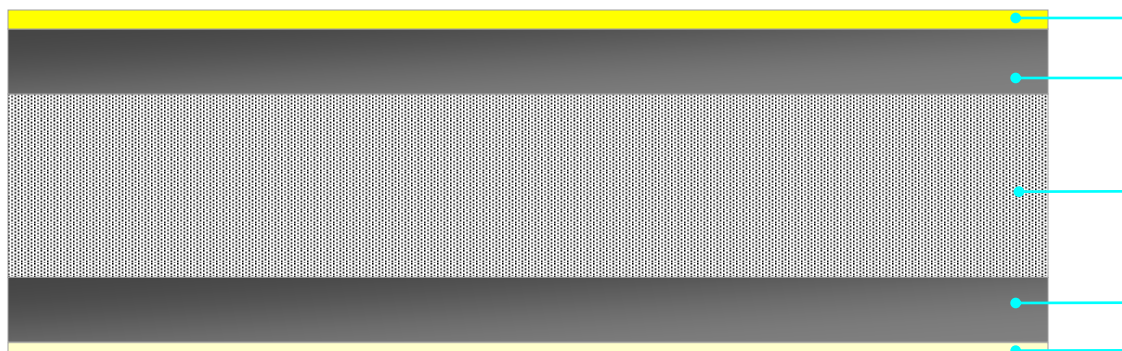


## Rozměry

- Tloušťky panelů 3, 4 a 6 mm
- Šířky panelů 965, 1250, 1285, 1500 a 1585 mm
- Od 1000 m<sup>2</sup> volitelná šířka 800 až 2050 mm
- Max. délky 7200 mm \*

## Charakteristika

- PE jádro
- Hmotnost panelů fr jádro – cca 7,6 kg/m<sup>2</sup>
- Hmotnost panelů A2 jádro – cca 8,1 kg/m<sup>2</sup>
- Tl. panelu 4 mm odpovídá pevnosti 3,3 mm AL
- Slitina AL 3105-H14 (nebo Al 5005)



**Exteriér**  
**Lumiflon ( Fluoropolymer ) min. 28 my**  
**nebo PVDF min. 20 my**

**Nehořlavé minerální jádro či PE jádro**

**Ochranný lak (Lumiflon/PVDF)**



# **ALUBOND/ALPOLIC** **reAL anodised**

**plášť z eloxovaného hliníku FR či A2**

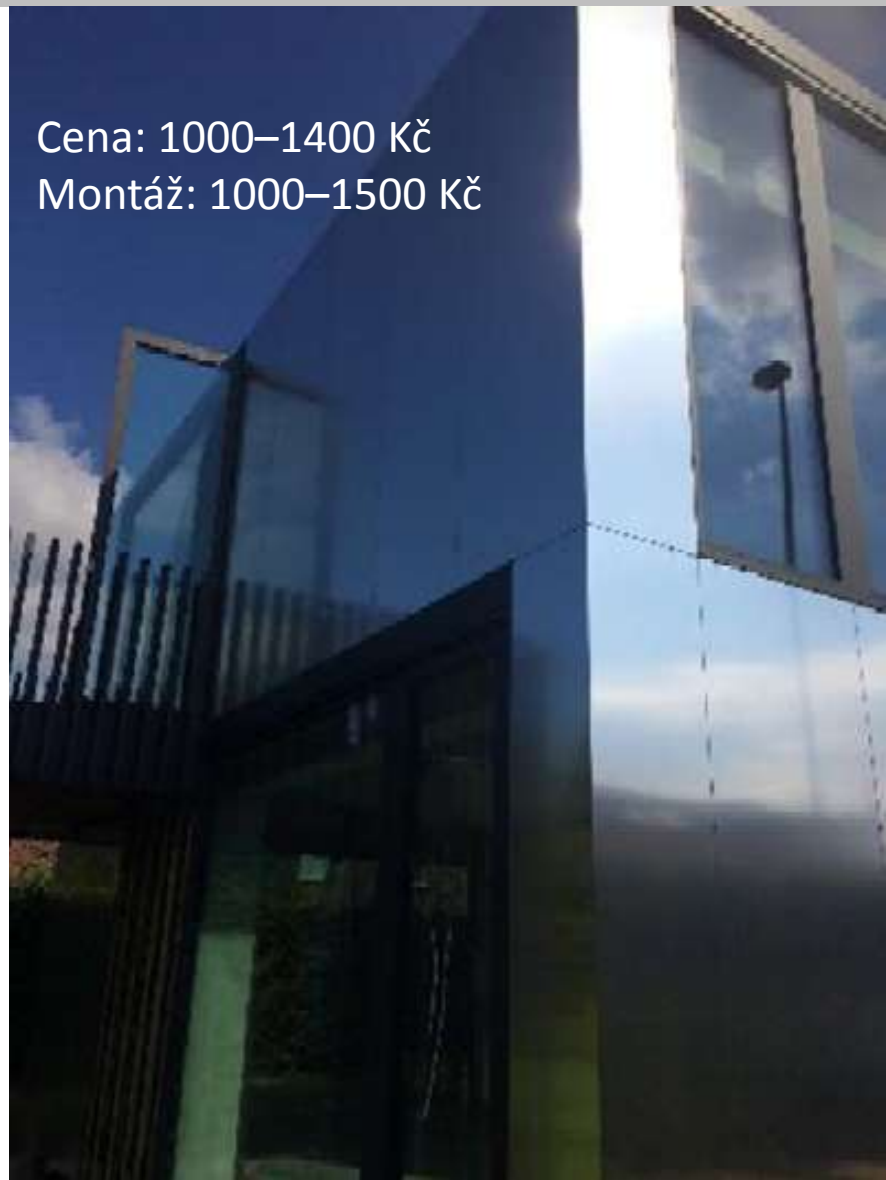
- Výborná ochrana proti korozi
- Velmi dlouhá životnost
- Záruka na lak až 25 let
- Vrstva eloxu vhodná pro velmi ostré ohyby
- Velký výběr odstínů a lesků:
  - Bronz světlý až téměř černý
  - Zlaté, měděné, zinkové odstíny
  - Přírodní elox
  - Broušené dekory
  - C-brite – zrcadlový efekt

**Antigrafitti – lze umýt od polakování**

Vila, HOVE (Be)  
C-brite

Cena: 1000–1400 Kč

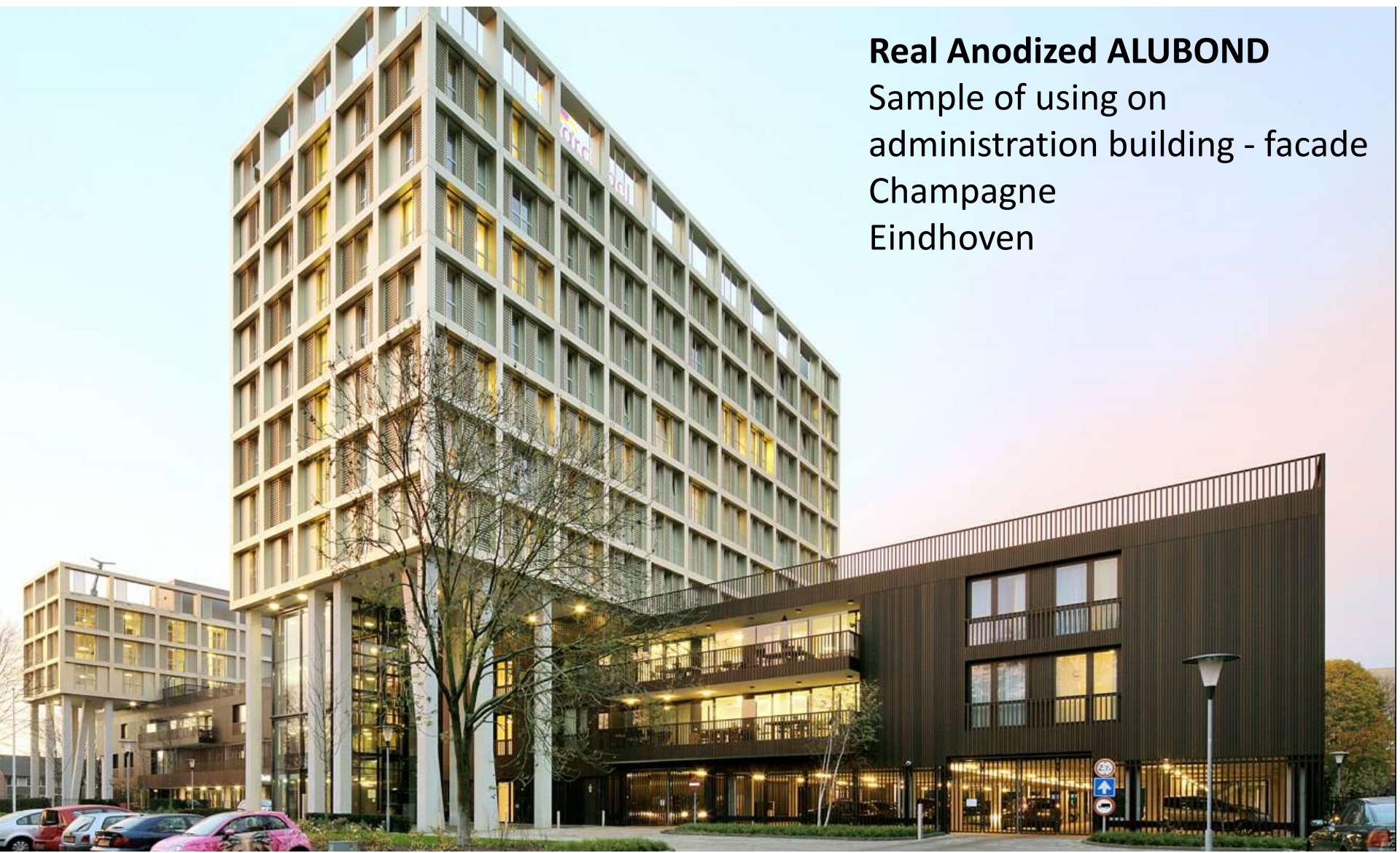
Montáž: 1000–1500 Kč





**Real Anodized ALUBOND**

Sample of using on  
administration building - facade  
Champagne  
Eindhoven





## Composite panels ALUBOND real anodized



**Real Anodized Alubond**  
Sample of using on  
administration building -  
facade

Oslo



Alubond realAnodized  
Champagne Landrijt Eindhoven  
Price 750 CZK – 1500 CZK  
Construction: 2000 CZK – 3200  
CZK



## ALPOLIC – composite panels

Standard finish LUMIFLON (Feve)

### **SURFACE ADVANTAGES LUMIFLON:**

- **Selection of gloss** from 15 to 80 % without price change

Paintwork warranty up to 20 years

Any shade from 100 m<sup>2</sup> or decor from 500 m<sup>2</sup>

Minimum paint thickness (always 3-layer):

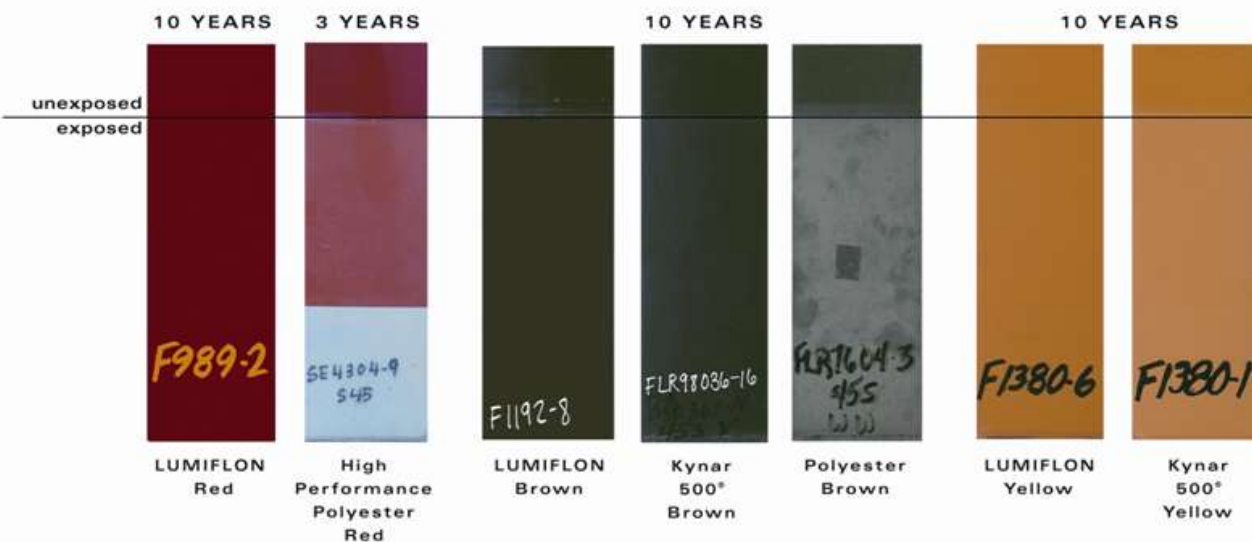
Solid colors – 30 µm

Metalic, Prismatic, Sparkling – 28 µm

Naturart colors – 40 µm



Alpolic/fr , Austrálie



**LUMIFLON – applicable cold**  
**from 5 ° C**  
 ie. corrective colors

## Lumiflon – paint life min. 60 let

Lumiflon (Feve) other applications:

- Steel constructions
- Concrete
- Laminate

As a final layer of other surfaces  
(ie.PVDF) to achieve glossiness



october 1988



april 1993



april 2007

Tokiwa bridge , Japonsko

**Real Anodized ALUBOND**

Example of use on the  
facade of an office building  
| Natur bright anodized





## **StacBond PE – FR – A2**

Price: 550 CZK - 950 CZK  
Construction: 600 CZK - 1200 CZK

StacBond CCM FR

Price: 2500 CZK – 2800 CZK

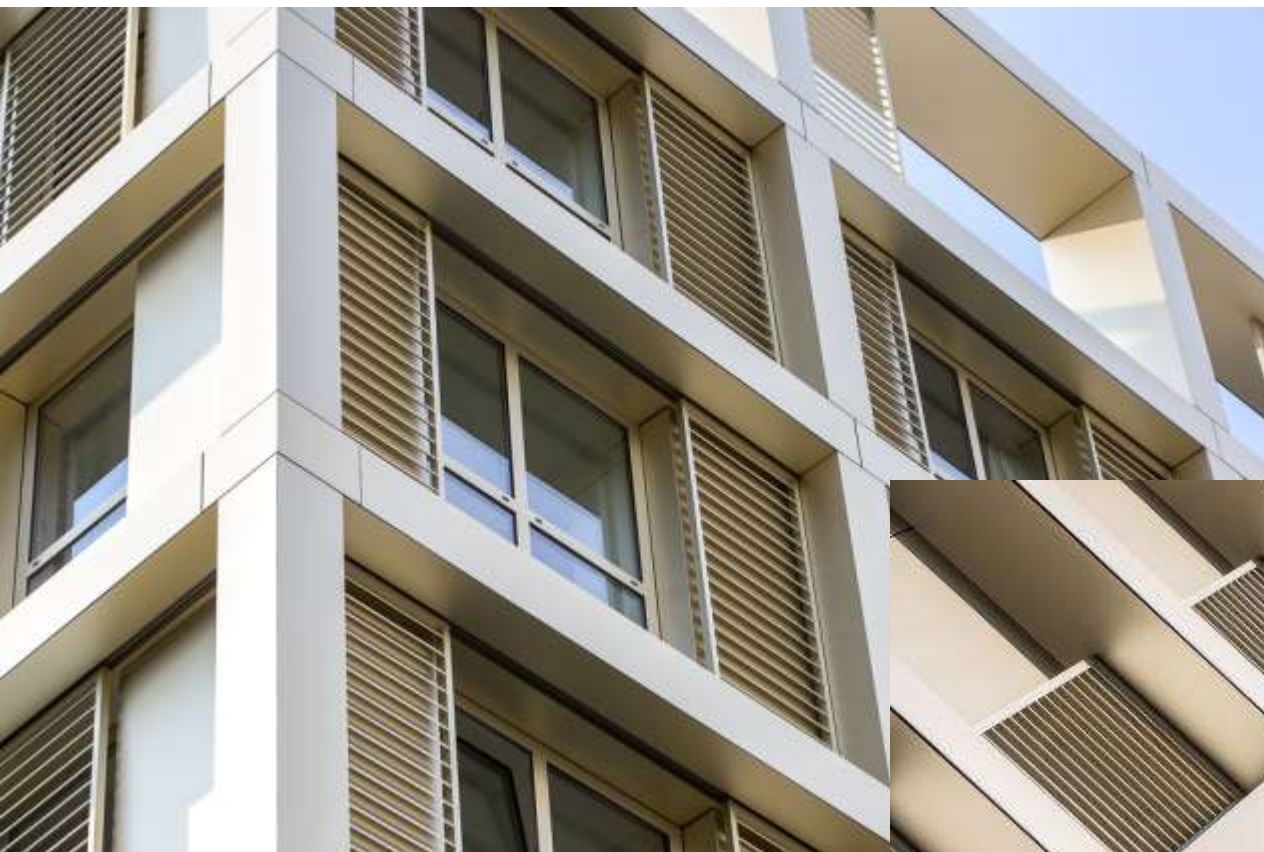
Construction: 1200 CZK – 1500 CZK



Alpolic SCM

Alpolic TCM



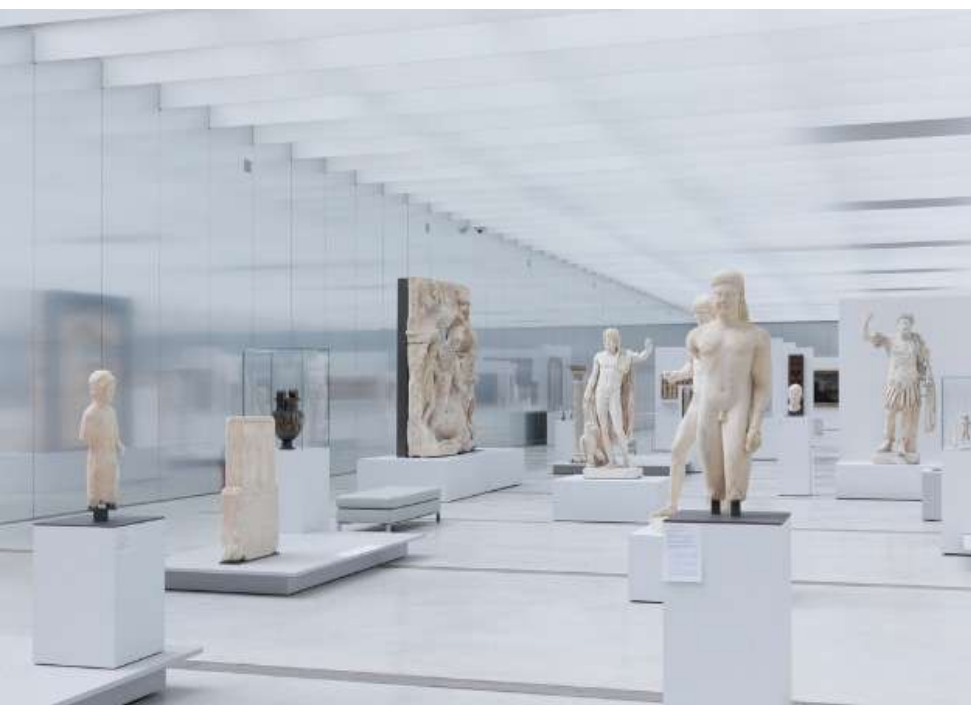


**Real Anodized  
Alpolic A2**

Example of use on  
the facade of an  
office building



**Elterly Home, (NI)  
Gold 10**



**ALPOLIC realANODIZED**  
**Louvre lens (Fr)**  
**C-brite**



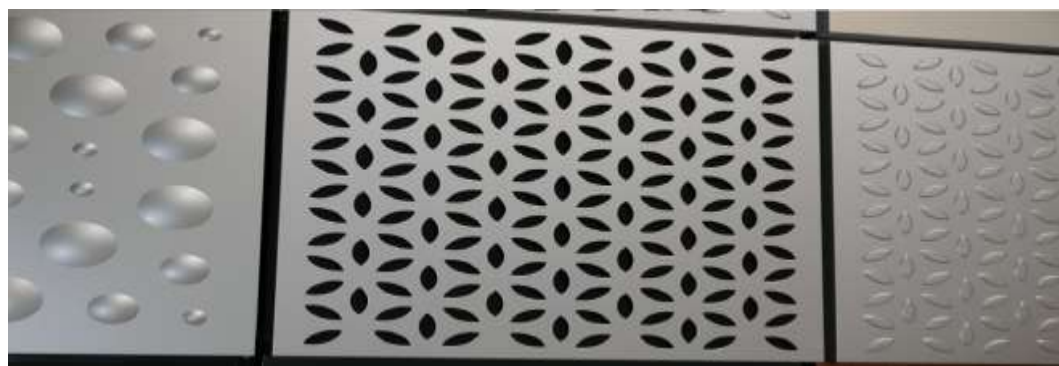
## ALPOLIC – Composite panels

### Treatment

- Standard tools and machines for aluminum and wood
- Ideal CNC machines
- Curved bending (fr core radius from 150 mm / A2 core radius from 600 mm)
- Can be rounded, perforated, embossed
- The panel must always be machined from all sides
- Most often processed into cassettes
  - you need to subtract 45 mm from each side of the board size for maximum cassette size
- **Substructure for assembly of composite panels must allow for dilatation of elements (3 axes)**



**Alpolic/fr perforovaný či embosovaný**





## Kovové profily – composite panels - application

### Chosen projects in CZ and SR

- Prague Airport, Terminal 2 – 25000 m<sup>2</sup>
- Hotel Mariot Prague Airport White G80
- Rádio Svobodná Evropa, Praha – 5000 m<sup>2</sup>
- Citi Green Court Praha 4, White G80
- Vítkovická aréna Ostrava – 8000 m<sup>2</sup>
- IVG Evropská, Praha – 5000 m<sup>2</sup>
- **Brno** Masarykova univerzita – 3700 m<sup>2</sup>
- VUT **Brno**, FSI – 3000 m<sup>2</sup>
- Vienna Point, **Brno** – 6000 m<sup>2</sup>
- Bratislava Slovakia Dubravia – 2000 m<sup>2</sup>
- Bratislava Airport, New Terminal – 700 m<sup>2</sup>
- Žilina, Slovakia Aupark – 1000 m<sup>2</sup>
- Bratislava Slovakia ASKO – 750 m<sup>2</sup>

...a další na [www.metalartcz.cz](http://www.metalartcz.cz)

[www.alpolic.com](http://www.alpolic.com)





## Composite panels DOLUFLEX - METAL

### **DOLUFLEX**

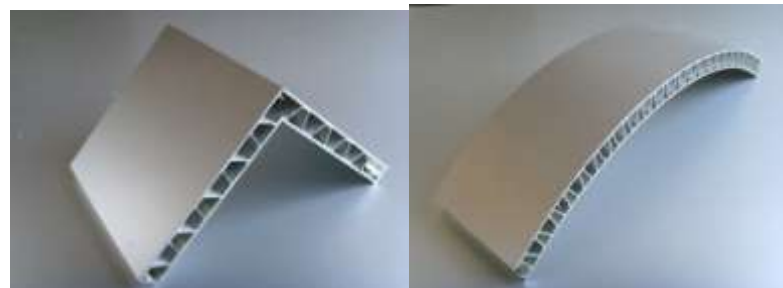
#### **all-metal sandwich composite panel,**

casing of two usually aluminum lacquered or anodized plates (also as a mirror), possibly also galvanized or stainless steel, connected by trapezoidal profile, which forms the core of the panels.

The surface is powder coated, anodized, enamel, wood, stone or antibacterial plastic.

**Interior and exterior.**

**High rigidity, non-flammability and variability**





## Composite panels DOLUFLEX - CELOKOVOVÉ

**DOLUFLEX** Cantilever roofs, facades, large ceilings, cladding of columns, interiors, manufacture of furniture and elements for interiors and design.

Suitable for medical halls and equipment



Also acoustic design PHONOFLEX





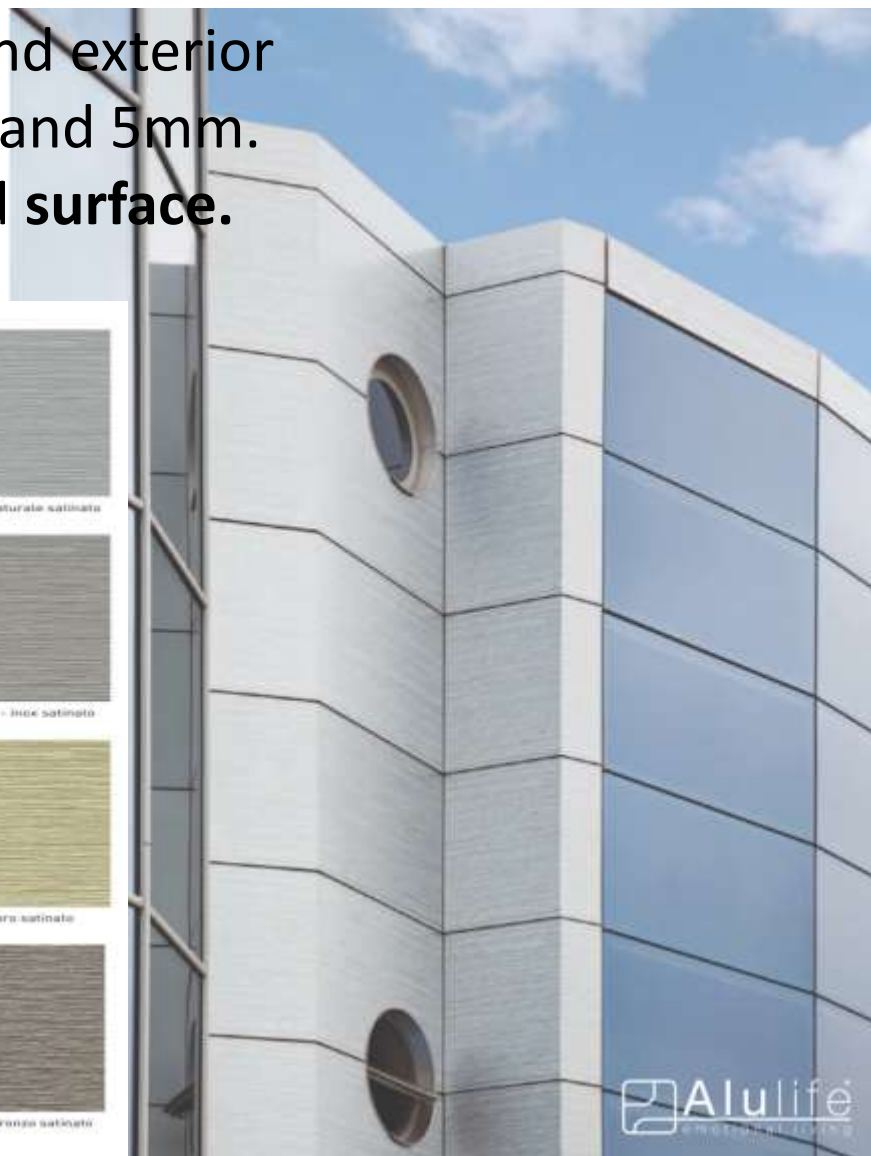
# DOLUFLEX – all-metal composite panels



## DOLUFLEX realization



ALULIFE cladding boards for interior and exterior  
 matt or shiny. 19 colors, thickness 2,5 and 5mm.  
 Anodized aluminum. Unique brushed **surface**.

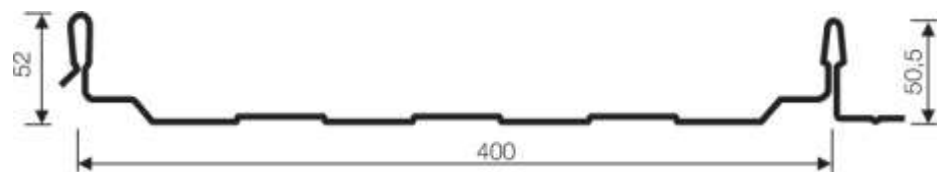
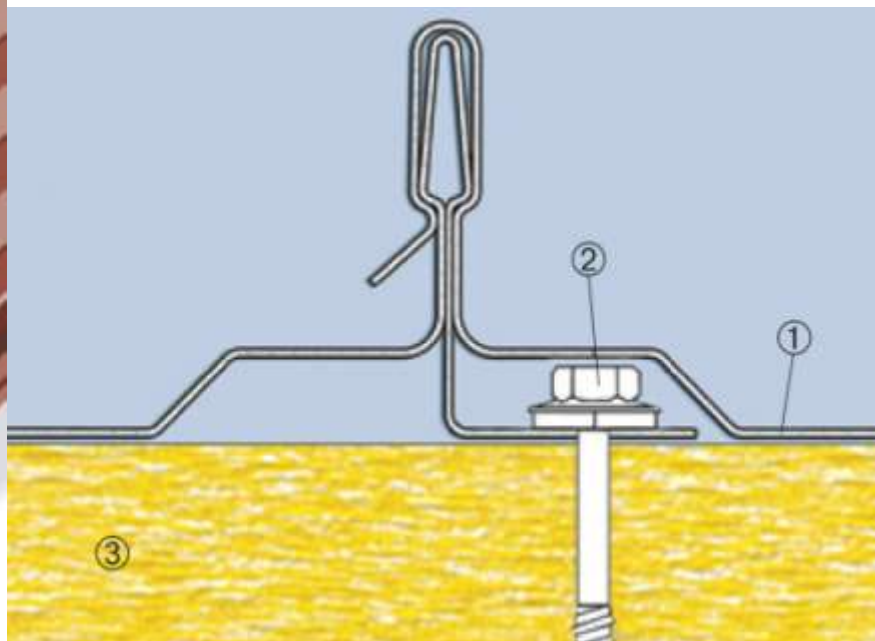
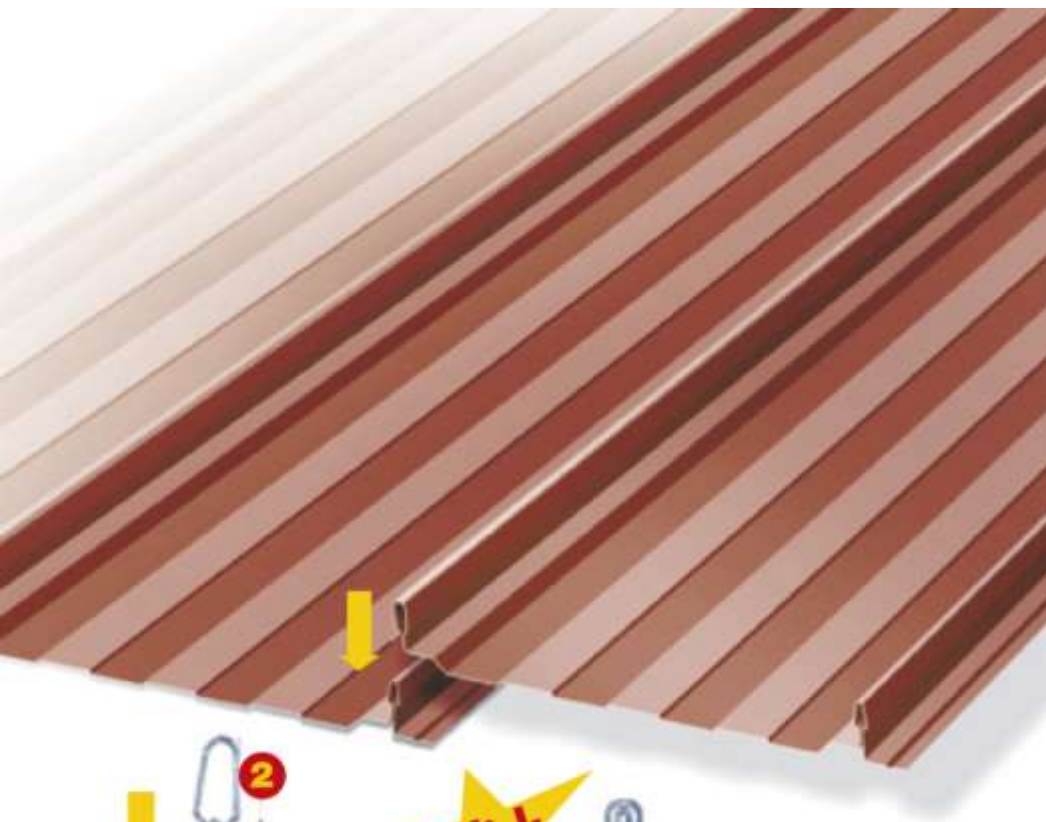


**Kliptec**



**BEMO**







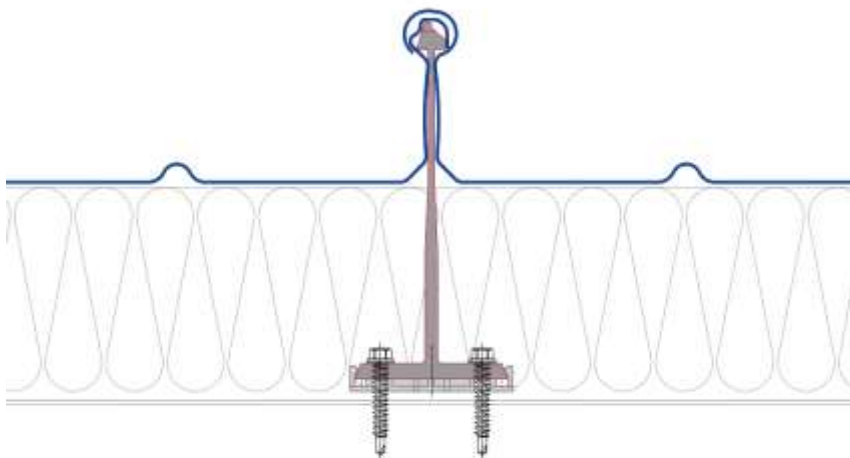
# BEMO seamless screw systems for cladding roofs and walls



Zagreb Airport



BEMO – basic principle of sheath systems made of seamless screw profiles:



- Concealed and sliding mount
- Without screws in outer sheath
- Without screws in outer sheath
- Individual shapes
- Infinite lengths and different widths

For low pitched roofs

**BEMO systems - conditions for use as a roof covering:**

**Minimum slope 1.5 ° (2.6%)**

**For roof strips without horizontal connection**

**Minimum slope 2.9 ° (5%)**

**For roof strips with horizontal connections or roof penetrations**

**Special**

**Minimum slope 0.6 ° (1%) Using groove seal**

**Only after 3D-Scan roof cladding and special details have been designed**

BEMO Monro profiles conical, curved, oblique and special:





Garland Conference Center - USA



Detroit Midfield Terminal - USA



Main station Graz



Main station Salzburg

# Wall systems with thermal isolation

**Sandwich panels**

**C-lines walls**

### Selection of the sandwich panels core-insulation material

- **POLYSTYREN** (without fire-resistance, aging of the material)
- **PUR** (the best isolation, stable, fire-resistance untill 15min.)
- **PIR** (technical characteristics like PUR, but reduced combustibility, fire-resistance untill 30-60min.)
- **MINERAL WOOL**, good insulation together with excellent fire-resistance, acoustic resistance untill 32dB.
- **Acoustics panels** for noise-absorption – not for exterior, but excellent inside noise reduction

**Special panels:** Agropanels for animal husbandry, single-sheet panels

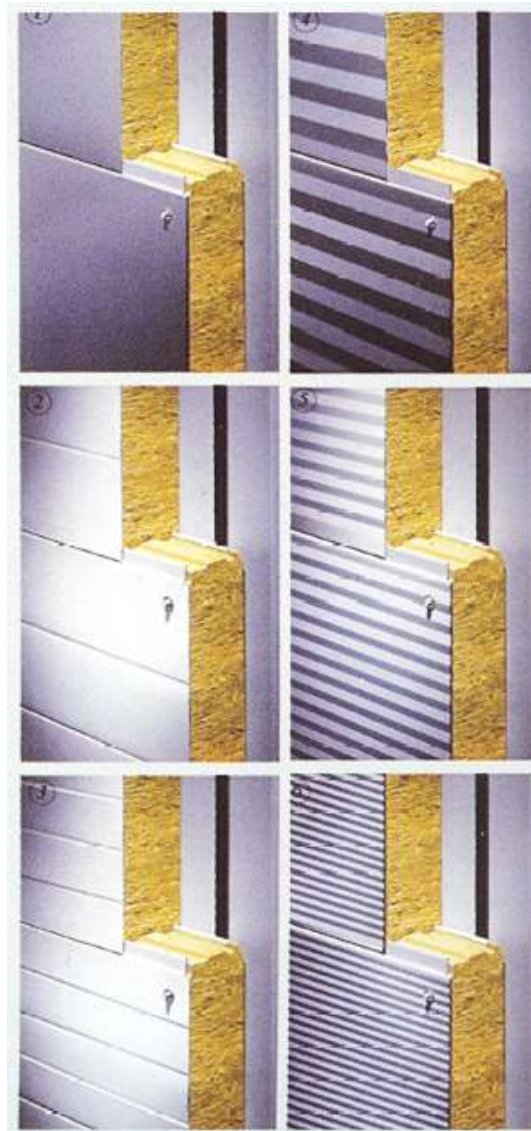
**Agro** - plastic sheath instead of sheet metal or coated with increased corrosion resistance (Colorcoat HP200 Ultra)



**PANASONIC - Plzeň**



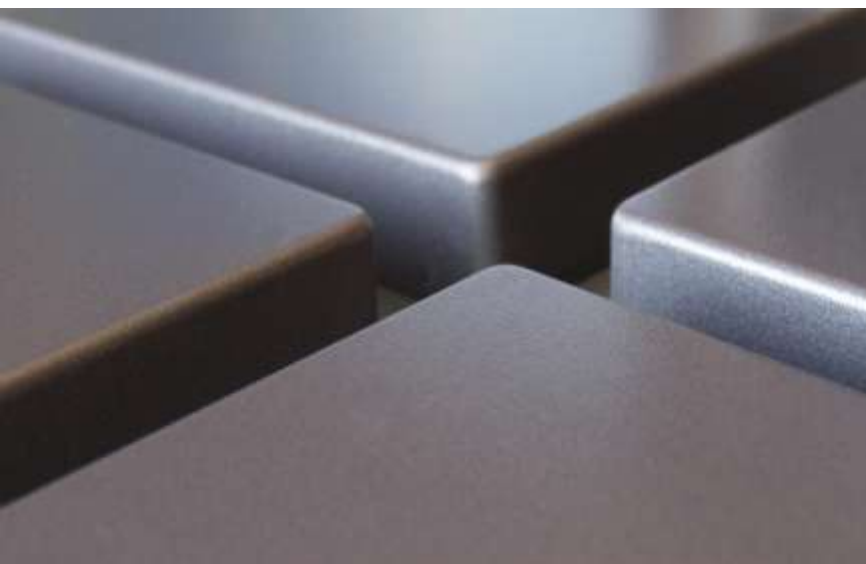
**Würth – Mladá Boleslav**



**Ukázka profilace  
 sendvičových panelů**



**Elektro Bartoš - Frenštát pod Radhoštěm**







## Sandwich panels Lattonedil GIANO – exterior from ceramics



- ♦ Grande formato: fino a 3000x1000 mm
- ♦ Leggerezza
- ♦ Elevate prestazioni meccaniche
- ♦ Molteplici finiture
- ♦ Possibilità di personalizzazione
- ♦ Facilità e celerità di posa
- ♦ Isolamento termico ed acustico
- ♦ Protezione dagli agenti atmosferici
- ♦ Funzionalità ed estetica
- ♦ Facilità di manutenzione e pulizia
- ♦ Resistente all'usura e ai graffi
- ♦ Resistente al gelo e all'azione dei raggi UV
- ♦ Large size: up to 3000x1000 mm
- ♦ Lightweight
- ♦ Excellent mechanical performance
- ♦ Multitude of finishes
- ♦ Customised options available
- ♦ Quick and easy installation
- ♦ Thermal and acoustic insulation
- ♦ Protection from atmospheric agents
- ♦ Great functionality and appearance
- ♦ Easy to clean and maintain
- ♦ Resistance to wear and scratches
- ♦ Resistance to frost and the action of UV rays

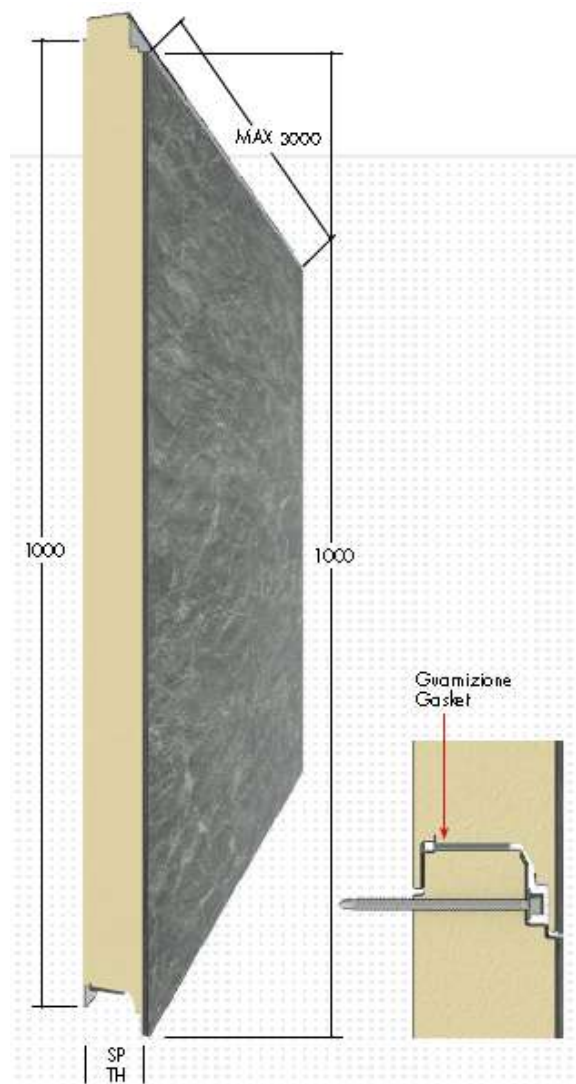
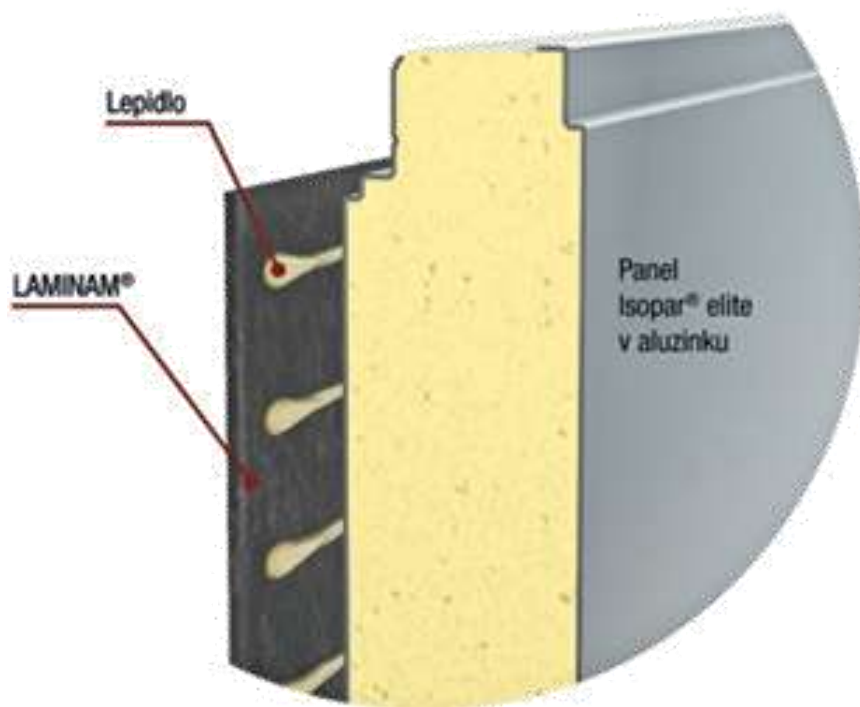
## Panely **GIANO** – exterior from ceramics

Panels with PUR, PIR i minerální isolation

Thickness from 20 to 200 mm

Hidden lock

1000x3000 mm



## Sandwich panels ISOPARSTONE– Exterior sheath of natural stone



THE BEST SOLUTION WITH THERMAL AND SOUND INSULATION TO DRESS FACADES:

- WITH THERMAL INSULATION WALL CLADDING SYSTEMS
- MICRO-VENTILATED
- VENTILATED
- CONTINUED

- ♦ USABLE WITH THICKNESSES OF 5 MM ALSO FOR INTERNAL COVERING AS FLOOR
- ♦ EASY AND QUICK INSTALLATION
- ♦ MAINTENANCE FREE

ADVANTAGES:

- ♦ EXECUTIVE QUALITY
- ♦ EXCELLENT MECHANICAL RESISTANCE COMPARED TO TRADITIONAL SOLUTIONS THAT HAVE TO USE HIGHER THICKNESSES
- ♦ LIGHTNESS, INSULATION, INTEGRATED AND RESOLVING SYSTEM

DISADVANTAGES:

- ♦ MAJOR PROJECT RIGIDITY DUE TO THE MODULARITY OF THE INSULATING PANEL

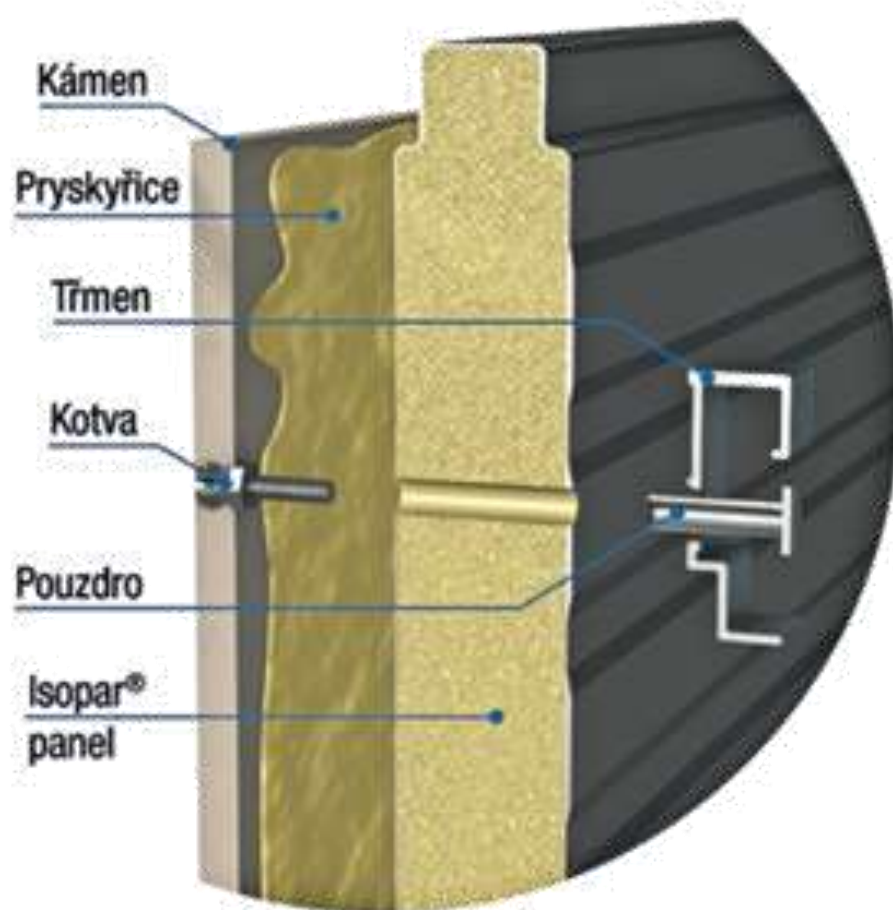
## ISOPARSTONE panels - exterior sheath of natural stone

Panels with PUR, PIR and mineral wool

Hidden lock

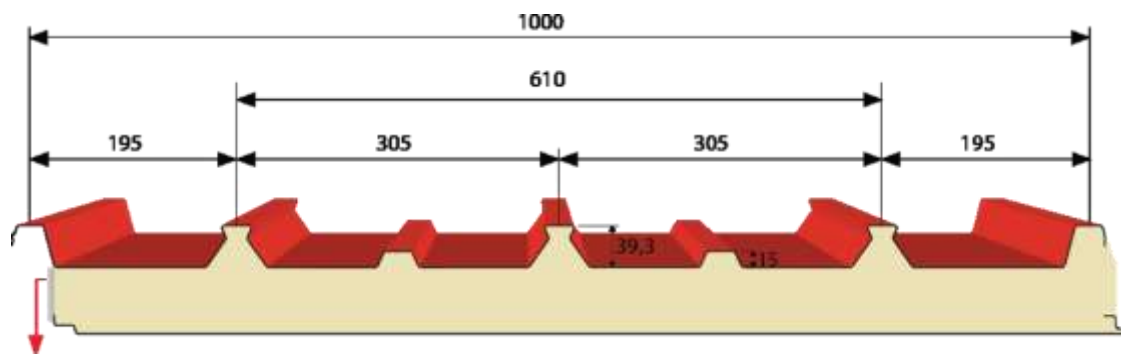
Anchoring using stirrups and hanging into the substructure

Dimensions 1000 x 3000mm  
mm



## Special sandwich panels– **SolarPan Plus**

Panel se střešní profilací  
 Tvar horní vlny určený pro  
 kotvení podkonstrukcí, solárních  
 panelů, bezpečnostních prvků  
 apod.

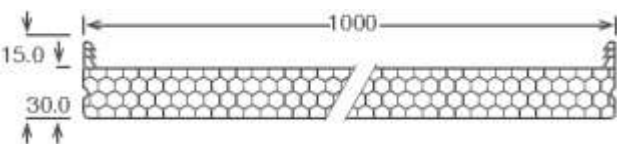


# Polycarbonat roof and wall systems Danpalon

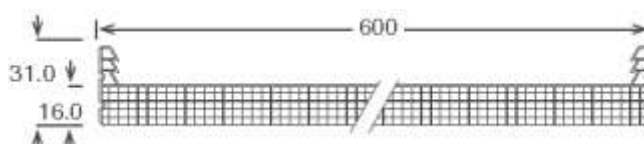


## DANPALON systems – types of polycarbonate panels

### ■ Honeycomb



### ■ Multicell



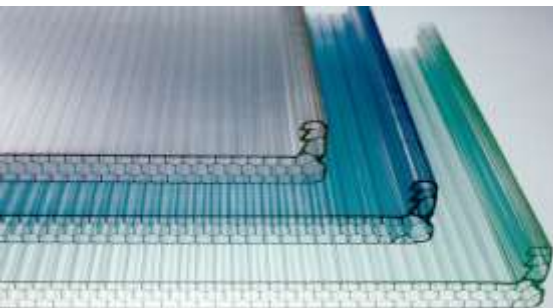
### ■ Compact DP4



- Honeycomb structure
- Hexagon
- 19 standard colors
- Fire resistance : b-s1,d0
- Thickness 8; 10; 12 a 30 mm
- Standard width 600; 1000 a 1040 mm

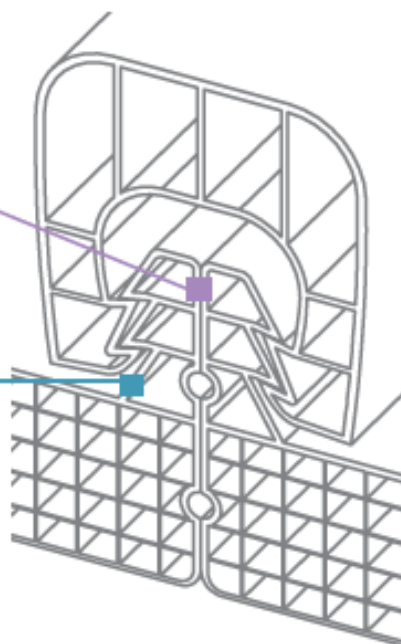
- Multicell structure
- Rectangle
- 19 standard colors
- Fire resistance: b-s1,d0
- Thickness 8; 10; 12 a 16 mm
- Standard width 600 a 1040 mm

- Solid panel th. 4 mm
- 6 standard colors
- Fire resistance: b-s1,d0
- Weight 5,14 kg/m<sup>2</sup>
- A snap-on connector + transparent space profile
- Standard width 592 mm



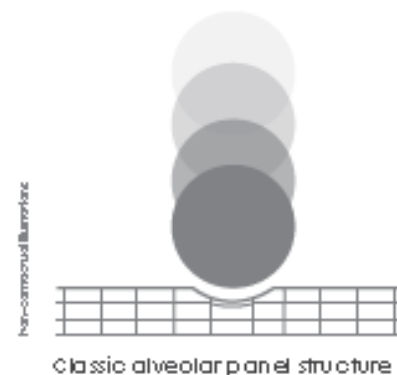
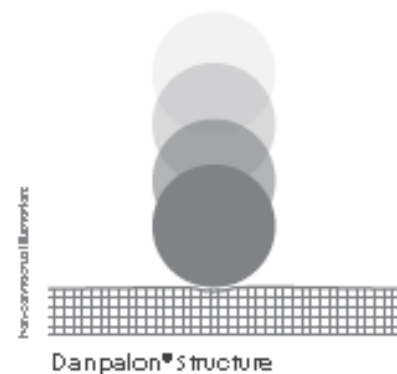
## DANPALON systems

Double notching | Microcell structure



- Reinforced safety gauge.
- Improved inertia for improved lightness.
- The very best air and water tightness available.

Double notching for high-security.



- Unique microcell structure – highest structural mechanical performance on the market
- Soft and hard body impact tested according: D1,10J-M50,300J-M50,400J



## DANPALON - polycarbonate systems

### Light and thermal insulation properties

|                            |      | Compact<br>4mm | Multicell /<br>Honeycomb<br>8mm | Multicell /<br>Honeycomb<br>10mm | Multicell /<br>Honeycomb<br>12mm | Multicell<br>16mm | Honeycomb<br>30mm |
|----------------------------|------|----------------|---------------------------------|----------------------------------|----------------------------------|-------------------|-------------------|
| <b>REFLECTIVE<br/>GREY</b> | LT % | 20             | 20                              | 20                               | 20                               | 20                | 20                |
|                            | ST % | 18             | 18                              | 18                               | 18                               | 17                | 17                |
|                            | SR % | 33             | 33                              | 33                               | 33                               | 29                | 27                |
|                            | SHGC | 0.28           | 0.28                            | 0.28                             | 0.28                             | 0.28              | 0.28              |
| <b>BRONZE</b>              | LT % | 38             | 25                              | 25                               | 25                               | 35                | 30                |
|                            | ST % | 41             | 26                              | 26                               | 26                               | 35                | 29                |
|                            | SR % | 12             | 18                              | 18                               | 18                               | 30                | 19                |
|                            | SHGC | 0.50           | 0.37                            | 0.37                             | 0.37                             | 0.42              | 0.39              |
| <b>GREY</b>                | LT % | 41             | 30                              | 30                               | 30                               | 31                | On<br>Request     |
|                            | ST % | 51             | 35                              | 35                               | 35                               | 33                |                   |
|                            | SR % | 12             | 22                              | 22                               | 22                               | 30                |                   |
|                            | SHGC | 0.58           | 0.44                            | 0.44                             | 0.44                             | 0.44              |                   |
| <b>OPAL</b>                | LT % | 40             | 35                              | 35                               | 35                               | 22                | 32                |
|                            | ST % | 44             | 38                              | 38                               | 38                               | 28                | 38                |
|                            | SR % | 35             | 40                              | 40                               | 40                               | 51                | 40                |
|                            | SHGC | 0.48           | 0.42                            | 0.42                             | 0.42                             | 0.32              | 0.42              |
| <b>GREEN</b>               | LT % | 75             | 60                              | 60                               | 60                               | 44                | 60                |
|                            | ST % | 69             | 52                              | 52                               | 52                               | 42                | 49                |
|                            | SR % | 17             | 32                              | 32                               | 32                               | 33                | 30                |
|                            | SHGC | 0.72           | 0.55                            | 0.55                             | 0.55                             | 0.47              | 0.53              |
| <b>ICE</b>                 | LT % | 55             | 60                              | 60                               | 60                               | 51                | On<br>Request     |
|                            | ST % | 58             | 54                              | 54                               | 54                               | 50                |                   |
|                            | SR % | 26             | 32                              | 32                               | 32                               | 38                |                   |
|                            | SHGC | 0.61           | 0.57                            | 0.57                             | 0.57                             | 0.52              |                   |
| <b>BLUE</b>                | LT % | 64             | 50                              | 50                               | 50                               | 49                | 50                |
|                            | ST % | 69             | 57                              | 57                               | 57                               | 51                | 53                |
|                            | SR % | 17             | 27                              | 27                               | 27                               | 38                | 32                |
|                            | SHGC | 0.72           | 0.60                            | 0.60                             | 0.60                             | 0.53              | 0.56              |
| <b>CLEAR</b>               | LT % | 89             | 71                              | 71                               | 71                               | 63                | 68                |
|                            | ST % | 80             | 60                              | 60                               | 60                               | 51                | 58                |
|                            | SR % | 17             | 35                              | 35                               | 35                               | 40                | 34                |
|                            | SHGC | 0.81           | 0.61                            | 0.61                             | 0.61                             | 0.53              | 0.73              |





## DANPALON - polycarbonate systems



- 2 tech-lock
- - Micro chambers (higher strength)
- - UV resistant - guaranteed resistance
- - Softlite - matt surface (diffuse light)
- - HP - high protection (increased resistance to mechanical damage and high chemical resistance)
- - Non-standard widths - available
- - INFRARED / R = Low-E - reduces solar heat, IR radiation without affecting the lights. throughput)
- - 19 standard color shades including metallic and iridescent colors
- - WELDING TERMINATION OF BOARDS
- - 3D LITE - light comfort throughout the day
  - passive
- - CONTROLITE - active light control indoors
- - Possibility of printing according to the original
- - Possibility to install LED lighting

## Advantages of DANPALON systems

## DANPALON systems

### Facade

#### „Classic“ walls

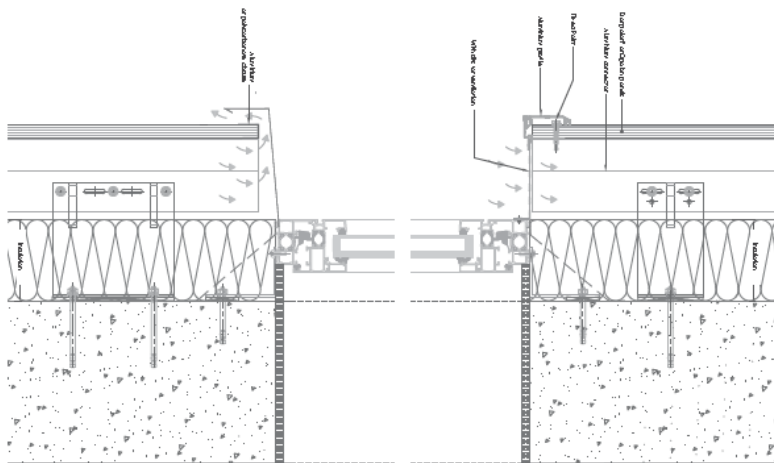
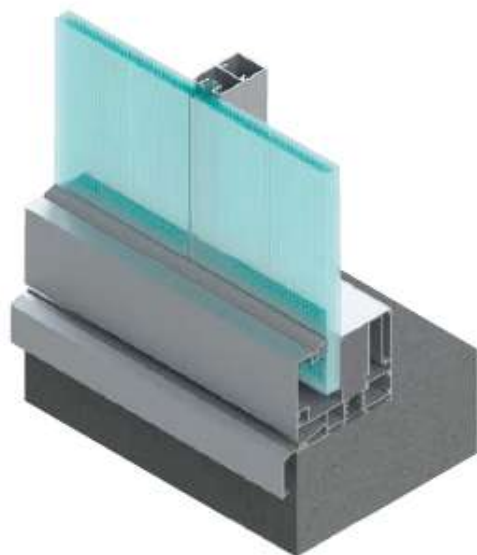
- Great utility value / price
- All types of the panels
- FR: b-s1, d0

#### Ventilated rainscreen

- Aluminium subconstruction
- Full accessories
- Multicell panels
- FR: b-s1, d0

#### Cassettes wall

- High thermal insulation performance
- Completely factory assembled



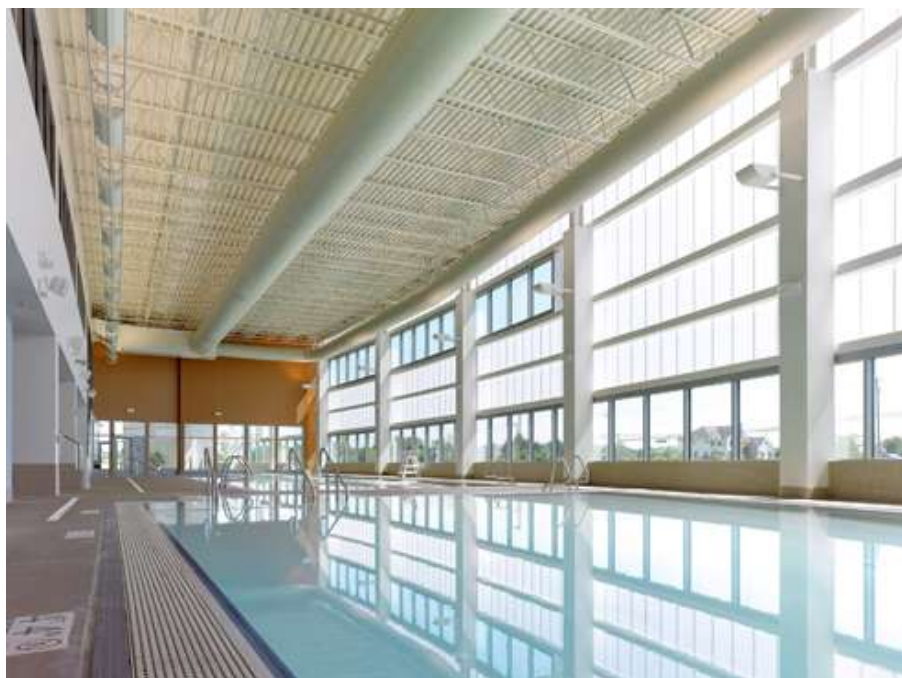
## VRS – provětrávaná translucentní fasáda







**Danpal® single-layer application translucent assembly dry process, can be ordered in several types and designs according to the required properties.**



## DANPALON systems

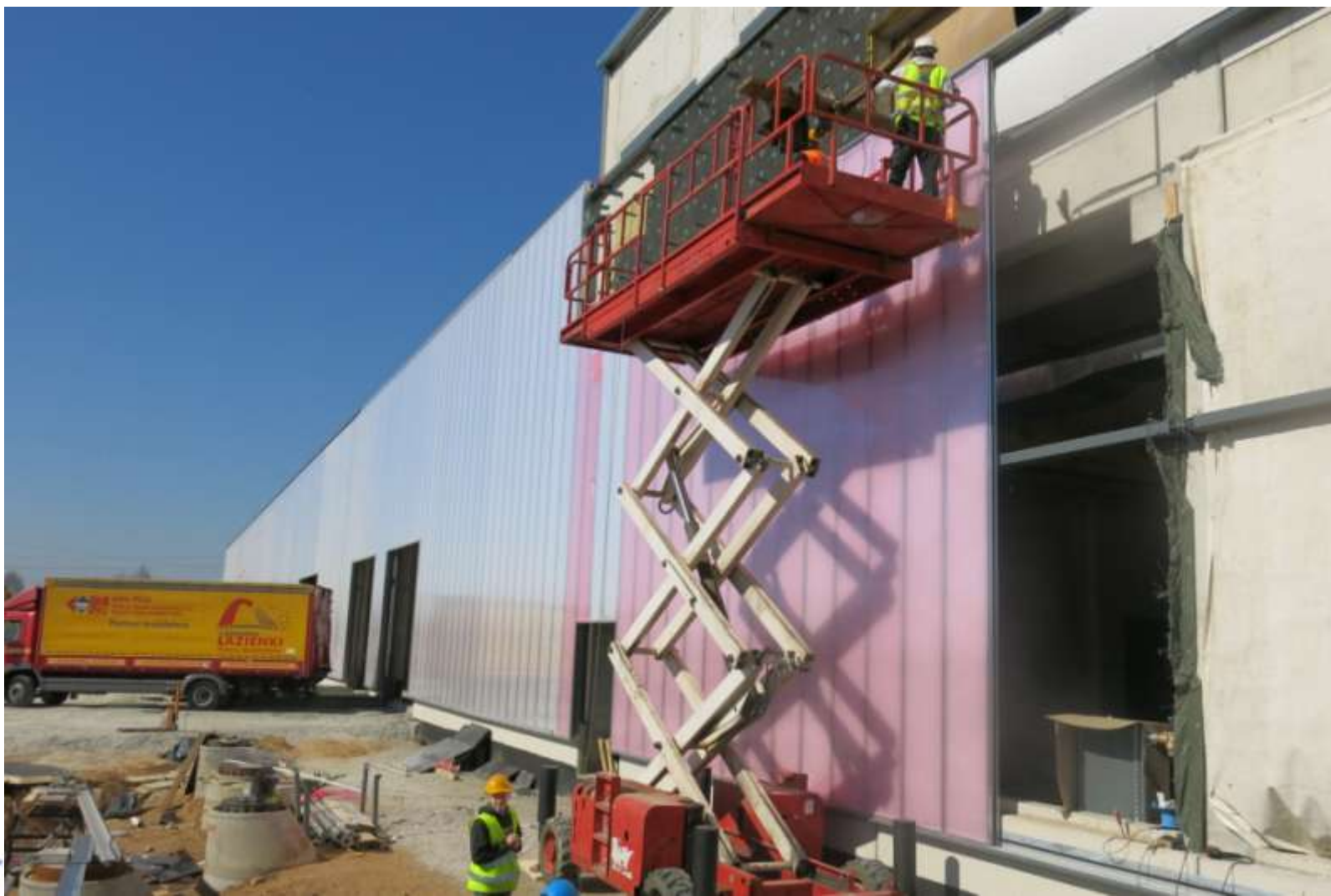
DANPATHERM – Stěnové panely

- **Cassette systems K7 / K12**
- **Fire resistance B-s2,d0**
- **U value = from 1,2 to 0,39 W/m<sup>2</sup>K**
- **Light transmission – 19 % to 46 %**
- **Span between supports 3000 mm**
- **Colored and illuminated facades**
- **Extremely quick and easy to install**





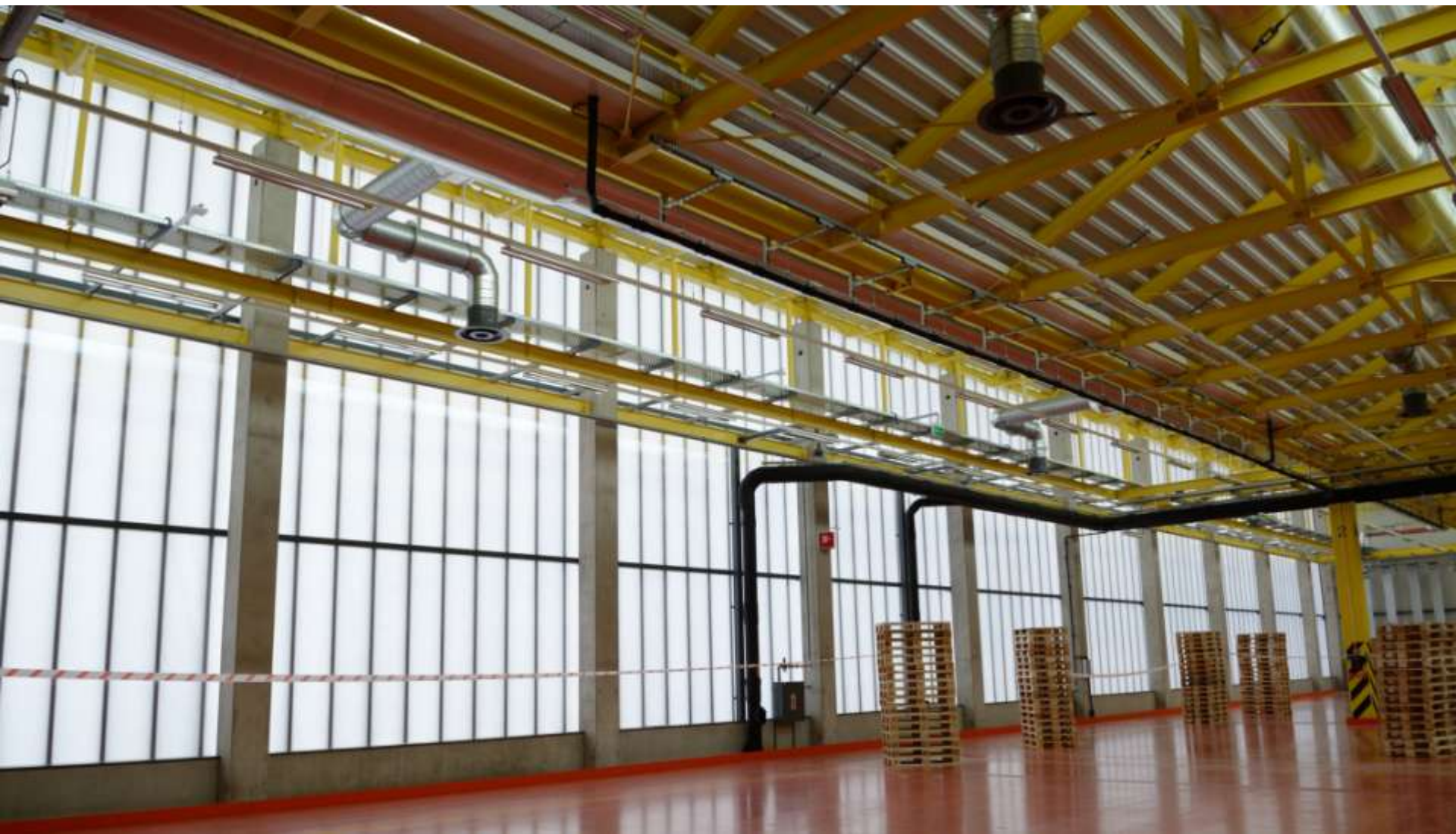
**DANPALON - polycarbonate systems - K12 Danpatherm assembly**







## Blum - Polsko – Final interior

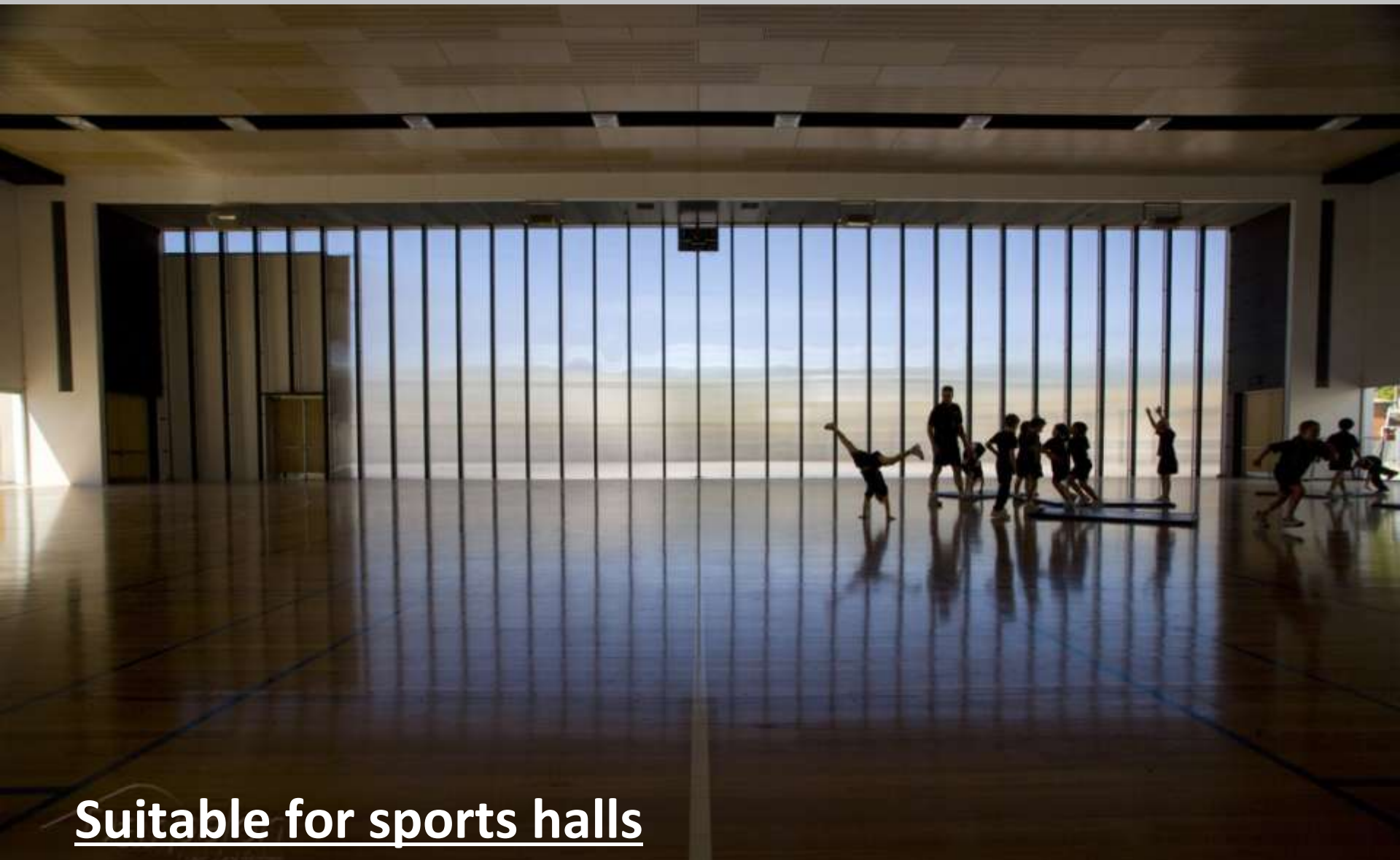




## Case Study – Final Result







**Suitable for sports halls**



**Suitable for sports  
halls**



 The Eagle Center School  
Façade, Danpal Façade System, 16mm, Blue, Ice, USA



 The Eagle Center School  
Façade, Danpal Façade System, 16mm, Blue, Ice, USA

**Suitable for sports objects**



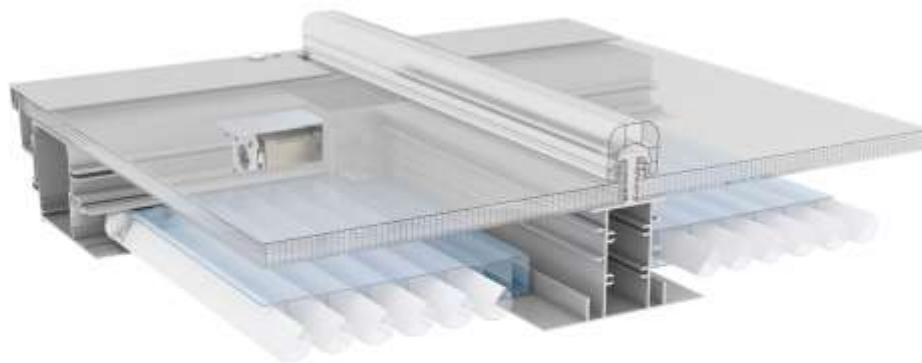
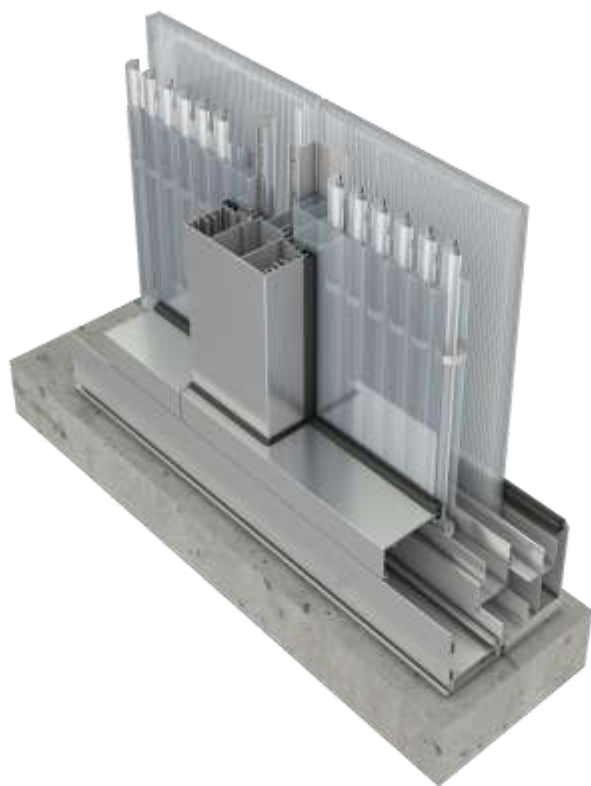
**Sports**  
**complex,**  
**France**

## **Self-supporting skylights up to 8.5 m span**

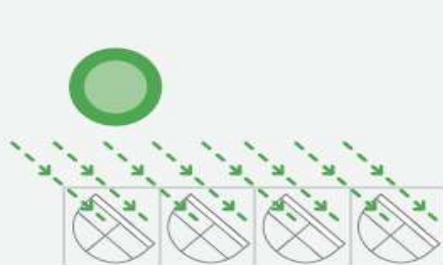




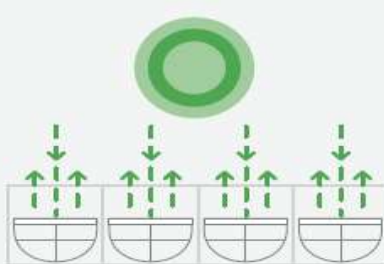
Controlite - a system with controlled light transmission for both wall and roof



## LIGHT OPTIMISATION WITH THE CONTROLITE® SOLUTION



Early morning or late afternoon



Summer midday



Cloudy days



63%  
of visible daylight is transmitted  
through Controlite® panels in the  
OPEN position

5%  
of visible daylight is transmitted  
through Controlite® panels in the  
CLOSED position

## SYSTEM BENEFITS

- Provides optimal comfort in changing daylight conditions
- Offers skylighting surfaces in larger areas
- Withstands weather and temperature extremes
- Saves energy, sustainable design, reduces heating/cooling costs

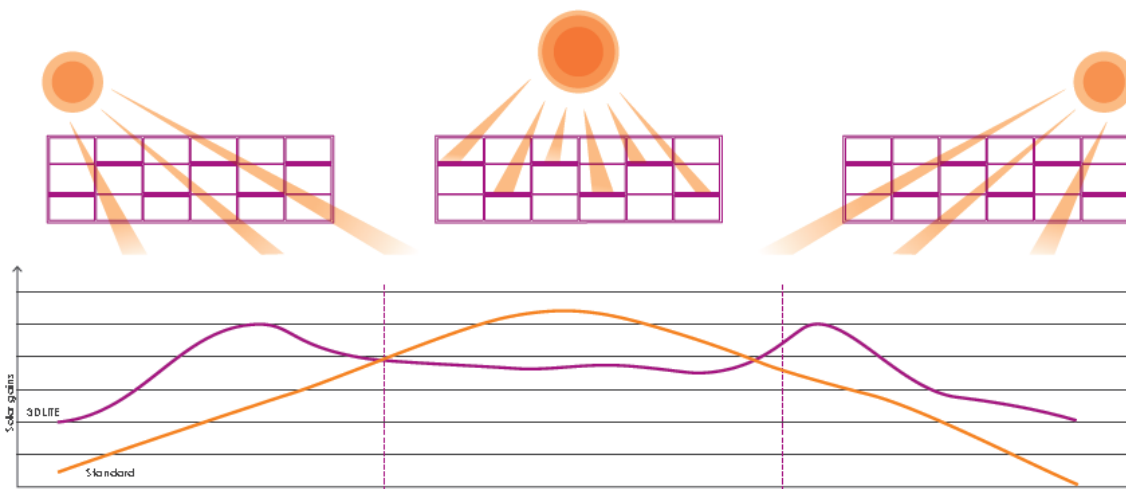
## DANPALON –polycarbonat systems

### 3D LITE

MORNING

NOON

AFTERNOON



### 3D lite – harmonisation of solar gain troughout the day

Benefits of 3DLite : Astouding 3D light effect, easy installation, large spans, wide range of colors



Dark Blue Neutral Grey Purple Violet Crimson Red

3D lite standard colors



Forest Green Opaline Cream Opaline White



Light Orange Lime Green Chocolate Brown







**With exterior print**



**With exterior print**



With LED backlight





## DANPALON - polycarbonate systems

STŘECHY | FASÁDY | INTERIÉRY



- - Exclusive representation for the Czech and Slovak Republics
- - All materials tested for fire according to EN 13501 as Bs1-d0 ČSN 73 0863 and ČSN 73 0865
- - Other tests / certificates such as weathering, watertightness, impact resistance, hail resistance, load capacity tables,
- - 10 Years Warranty
- - Accessories made of aluminum or polycarbonate





## DANPALON - polycarbonate systems

Softlite | High protection



Softlite - so-called diffuse light  
- matte finish provides more light comfort in the interior and prevents glare



HP - High protection finish  
- Provides increased impact resistance (even on the same spot), aggressive environment and graffiti resistance to all boards

- **Anticorrossion protection**  
of thin metal profiles
  - And
  - **Confidex guaranty**  
the only real long life guaranty



## Coating of lightweight profiles

- A lot types of metals for cladding, for example stainless steel, especially titan, titanium zinc, copper, mill finish aluminium or coating aluminium, due the high loading capacity and lower price is most used **steel with corrosion protection**
- **Good ratio between price and use value**
- Most used corrosion protection of the steel is **galvanizing** (a lot of types ) **and duroplastics coating (a lot of types and thicknesses)**

## UV resistance of different coatings



## Duroplastics coatings - types and characteristics

| Colorcoat ® products   |                                    |       |                                                     |           |           |                                  |                                                                 |           |                               |
|------------------------|------------------------------------|-------|-----------------------------------------------------|-----------|-----------|----------------------------------|-----------------------------------------------------------------|-----------|-------------------------------|
| Characteristics/ units |                                    |       | DU                                                  | Polyester | PVDF      | Armatec®<br>35 µm                | Armatec®<br>50 µm                                               | Prisma®   | HPS200®<br>Ultra              |
| 1                      | Material                           |       | Z 275 according ČSN EN 10346:2009<br>(100% of Zinc) |           |           |                                  | ZA 265 according ČSN EN 10346:<br>2009 (95% Zinc, 5% Aluminium) |           |                               |
| 2                      | Back side coating                  |       | service coating (OL, RSL)                           |           |           |                                  |                                                                 |           |                               |
| 3                      | Thickness of coating               | µm    | 15                                                  | 25        | 25        | 35                               | 50                                                              | 50        | 200                           |
| 4                      | Max. temperature                   | °C    | 90                                                  | 80        | 100       | 90                               | 90                                                              | 120       | 60                            |
| 5                      | Min. processing temp.              | °C    | 16                                                  | 16        | 16        | 15                               | 15                                                              | 16        | 16                            |
| 6                      | UV resistance                      |       | Ruv2                                                | Ruv3      | Ruv4      | Ruv4                             | Ruv4                                                            | Ruv4*     | Ruv4                          |
| 7                      | Gloss (60°)                        | %     | 20-40                                               | 10-90     | 10-35     | 30-50                            | 30-50                                                           | 30-40     | 20-40                         |
| 8                      | Cohesion (100%)                    |       | 2T                                                  | 1T        | 1T        | 0,5T                             | 0T                                                              | 0T        | 0T                            |
| 9                      | Elasticity, minimum bending radius | T     | 4-5T                                                | 3-4T      | 1-2T      | 1,5T<br>in 15°C<br>3T<br>in 10°C | 1T<br>in 15°C<br>3T<br>in 10°C                                  | 0,5T      | 0T<br>in 16°C<br>2T<br>in 0°C |
| 10                     | Abrasion resistance                |       | limited                                             | good      | very good | very good                        | very good                                                       | excellent | excellent                     |
| 11                     | Class of the corrosion resistance  |       | RC2                                                 | RC3       | RC3       | RC4                              | RC4                                                             | RC5       | RC5**                         |
| 12                     | Maximum guarantee - exterior       | years | -                                                   | 5         | 10        | 10                               | 15                                                              | 25        | 40                            |

\* Prisma® - visible higher UV resistance than class RUV4, no higher class according DIN standards

\*\* HPS200® Ultra - visible higher corrosion protection than class RC5, no higher class according DIN standards

## **Confidex Guarantee max. 40 years**

- For all types of mentioned coating on the top:
- Colorcoat Prisma 50 my (30 years)
- Colorcoat HPS Ultra 200 my (40 years)
- Direct guarantee from TATA steel to the investor (registration of the building is necessary)



## **Confidex Colorcoat® Guarantee**

- Is longest, 100% functionally, guarantee for the coating steel profiles with guarantee up to 40 years for facades and roofs
- Covers cut edges for the entirety of the Confidex® Guarantee period
- 2 guarantees for the all colors
- Does not distinguish between different roof pitches down to 1°
- Is offered directly to the building owner
- Is fully transferable should the building ownership change

## Colorcoat® Prisma

- Colorcoat Prisma 50 µm coating thickness
- The best combination of the price, esthetics and long lasting
- Very good corrosion protection thanks plating Galvalloy® according ČSN EN 10346:2009 (95 % Zn/5 % Al) with duroplastic coating
- Up to 30 years Confidex® guarantee
- Excellent abrasion resistance of the coating
- Great color with long with gloss retention



## Colorcoat HPS200® Ultra

- 200 µm coating thickness
- Up to 40 years Confidex® guarantee
- The color chart - Repertoire® Colour Consultancy for custom colors
- The embossed trademark for Scintilla® color is easy visible for checking the authenticity of the product
- Great corrosion protection thanks plating Galvalloy® according ČSN EN 10346:2009 (95 % Zn/5 % Al) with duroplastic coating





# Profiles with corrugated web



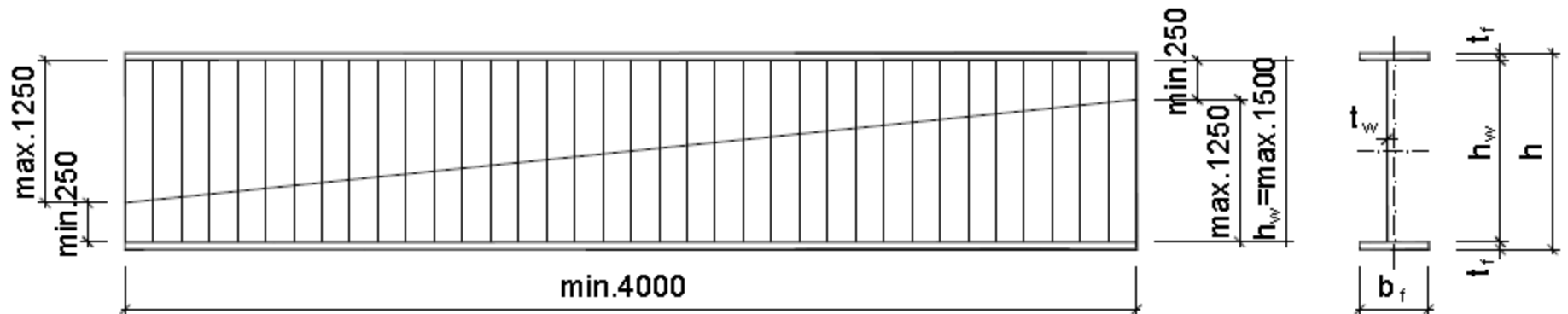
The corrugated web profile was developed as an economical substitute for welded or high I-shaped rolled profiles.





Range of products:

- thickness 2.0; 2.5 and 3.0 mm (max. 6.0 mm)
- height 333, 500, 635, 750, 1000, 1250 and 1500 mm
- flange from 120x6 to 450x30 mm
- web S235 or S355
- flange steel S235, S275 or S355
- the profiles are straight or with variable height from 250 to 1250 mm





**Fire resistance** of beams and structures made of profiles with corrugated web can be demonstrated by standard calculation in accordance with ČSN EN 1993-1-2 and as a standard can be achieved classification R15 without additional fire protection. This was also demonstrated by testing in PAVUS.







**Thank you for your  
attention!**

**Any questions?**

**[www.kovprof.cz](http://www.kovprof.cz)**