



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

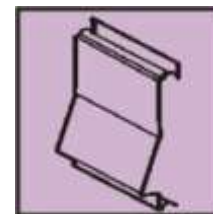
- TRAPEZOIDAL PROFILES



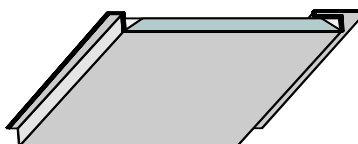
- SINUSOIDAL (WAVES) PROFILES



- SIDING – FACADE LAMELAS



- LARGE FACADE CASSETTES



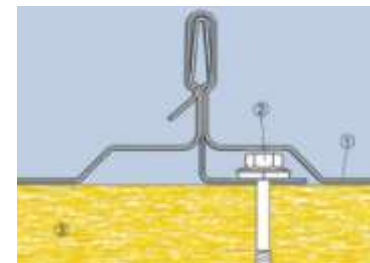
- COMPOSITE PLATES – BOND



- 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

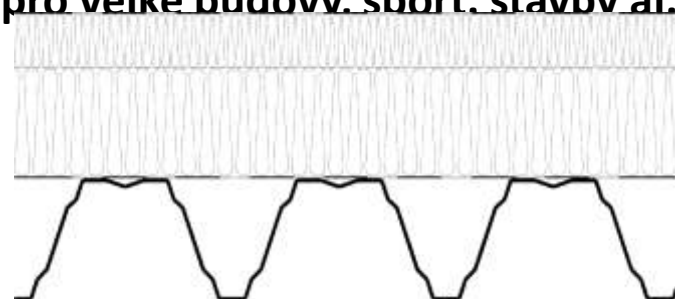


The centre of architecture
 Prague – Alpolic Champagne
 a Grey

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

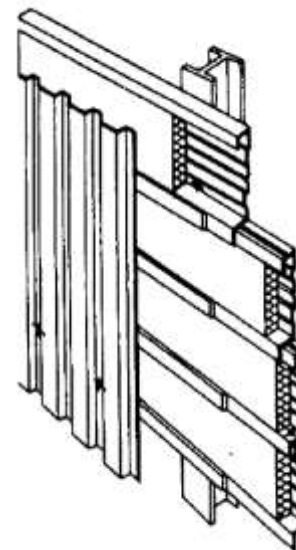
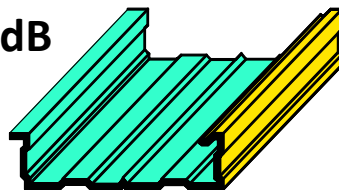


OBI - Prague

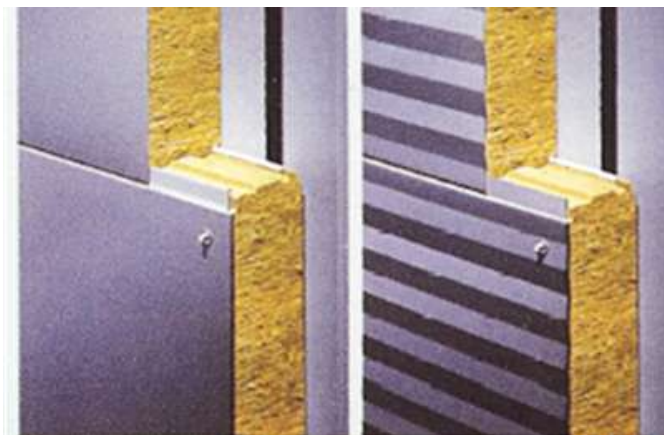
Wall systems with integrated therm isolation

- 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







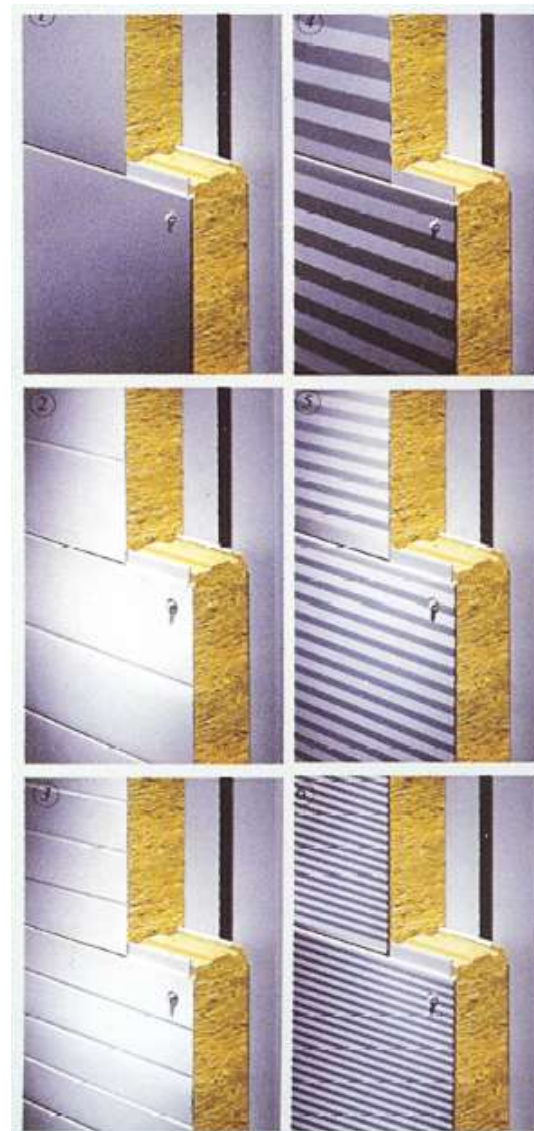
- ELE Ledvice, Cassette system Rockrofil up to 123m length 6m, Fire-resistant, Colorcoat Prisma



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 TR 20/220		TR 45/333 KD		TR 100/275	
TR 25/175		TR 50/250 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/m²

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

230 CZK -270 CZK/m²

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

250 CZK - 300 CZK/m²

Price **Aluminium + Polyester 25my:**

350 CZK - 450 CZK/m²

Construction: 300 CZK- 500 CZK

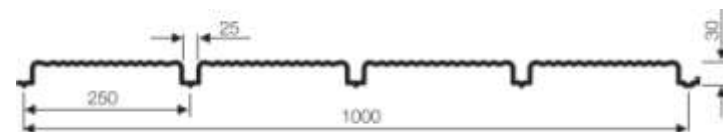
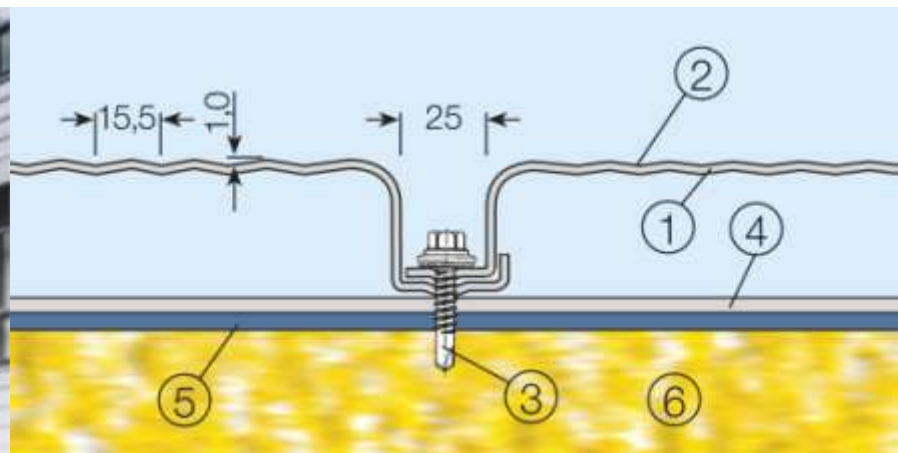
supporting construction included





THE CHEAPEST WALL SYSTEM
FOR LOW INTERMITTENT
FACADES





Fischer Panel 33/250

Válcovaný profile – lamelas design

Price: 480 CZK - 550 CZK/m²

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^{ème} édition - 3 fixations minimum 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 Acier revêtu prélaqué	NF EN 10346 NF EN 10169 + A1 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		160	160	Pression
110	133	2,75	160	160	Dépression
93	115		160	160	Pression
88	106		151	160	Dépression
73	91	3,00	160	160	Pression
72	86		127	155	Dépression
59	73		131	156	Pression
59	71	3,25	107	132	Dépression
49	60		107	128	Pression
50	59		92	114	Dépression
		3,50	89	106	Pression
			79	99	Dépression
			75	91	Pression
		3,75	69	87	Dépression
			64	80	Pression
			61	77	Dépression
		4,00	55	70	Pression
			54	69	Dépression
		4,25			
		4,50			
		4,75			

* 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^{ème} édition - 3 fixations minimum par largeur utile.
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158	160	2,50	160	160	Pression
141	160		160	160	Dépression
120	149		160	160	Pression
110	133	2,75	160	160	Dépression
93	115		160	160	Pression
88	106		151	160	Dépression
73	91	3,00	160	160	Pression
72	86		127	155	Dépression
59	73		131	156	Pression
59	71	3,25	107	132	Dépression
49	60		107	128	Pression
50	59		92	114	Dépression
		3,50	89	106	Pression
			79	99	Dépression
			75	91	Pression
		3,75	69	87	Dépression
			64	80	Pression
			61	77	Dépression
		4,00	55	70	Pression
			54	69	Dépression
		4,25			
		4,50			
		4,75			

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

pose horizontale

Epaisseur (mm)	0,63	0,75
Masse (kg/m²)	8,37	9,97
Longueur maximale (m)	9,50	



Face prélaquée

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.

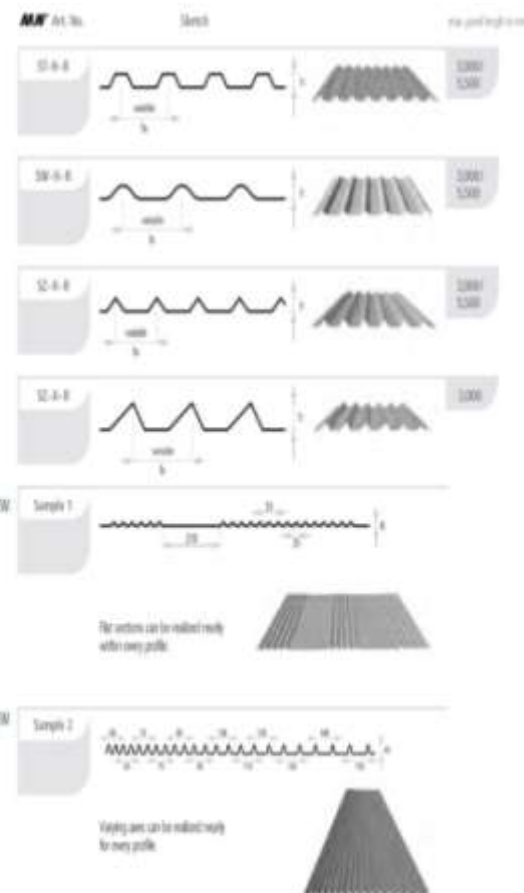
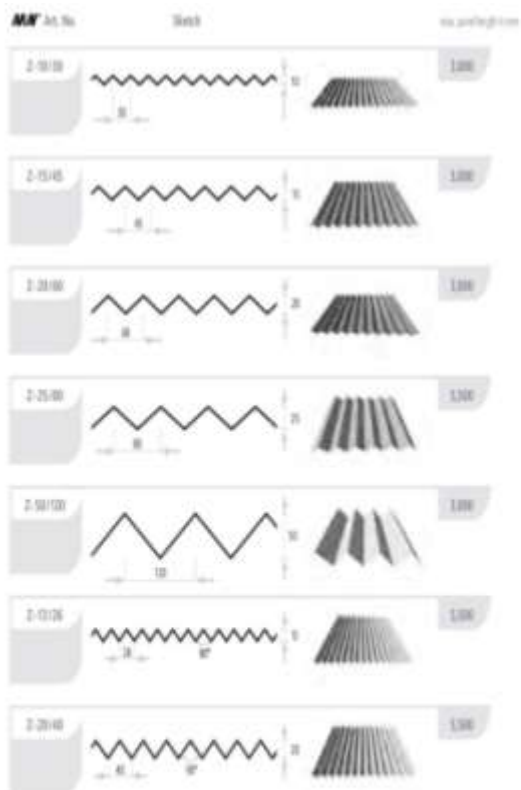
Esthétique unique

Effet d'ombre et de matière

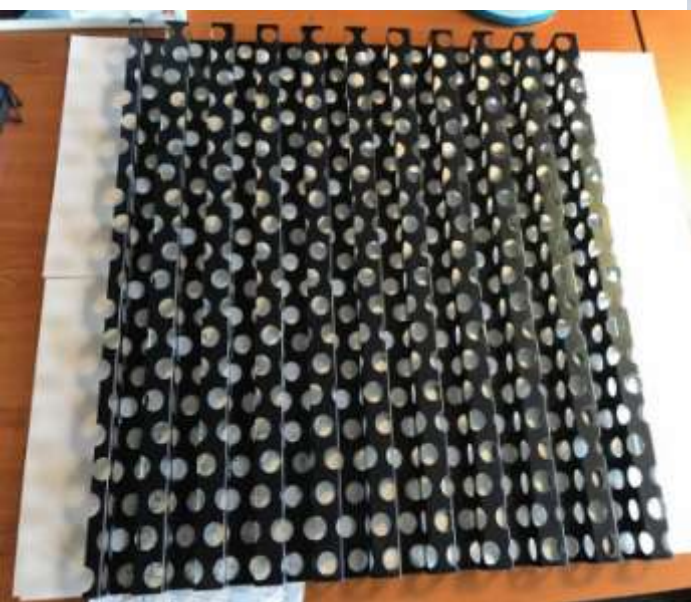
Compatible avec les systèmes d'isolation thermique par l'extérieur (ITE)

Design et Industrie





The basic forms for Group 3 can be found under Group WIT and Z. The guided dimensions between pens are maximum.



CANTO



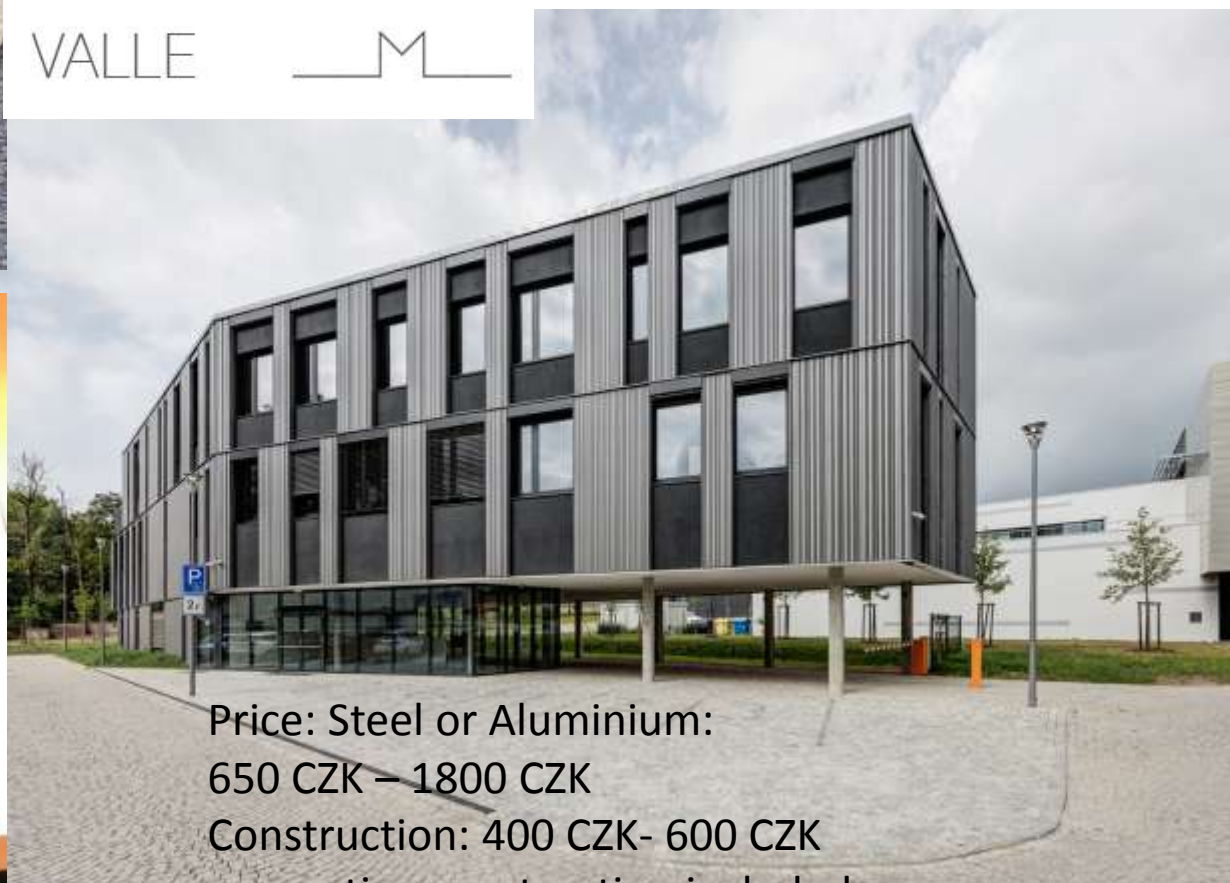
SEGA



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.

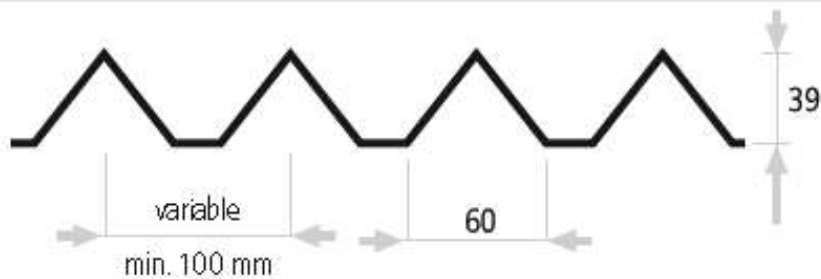
SZ – 39/60 – R, steel with PS 25my coating

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/m²

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/m²
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







Trapezoidal profiles – designed

Material:

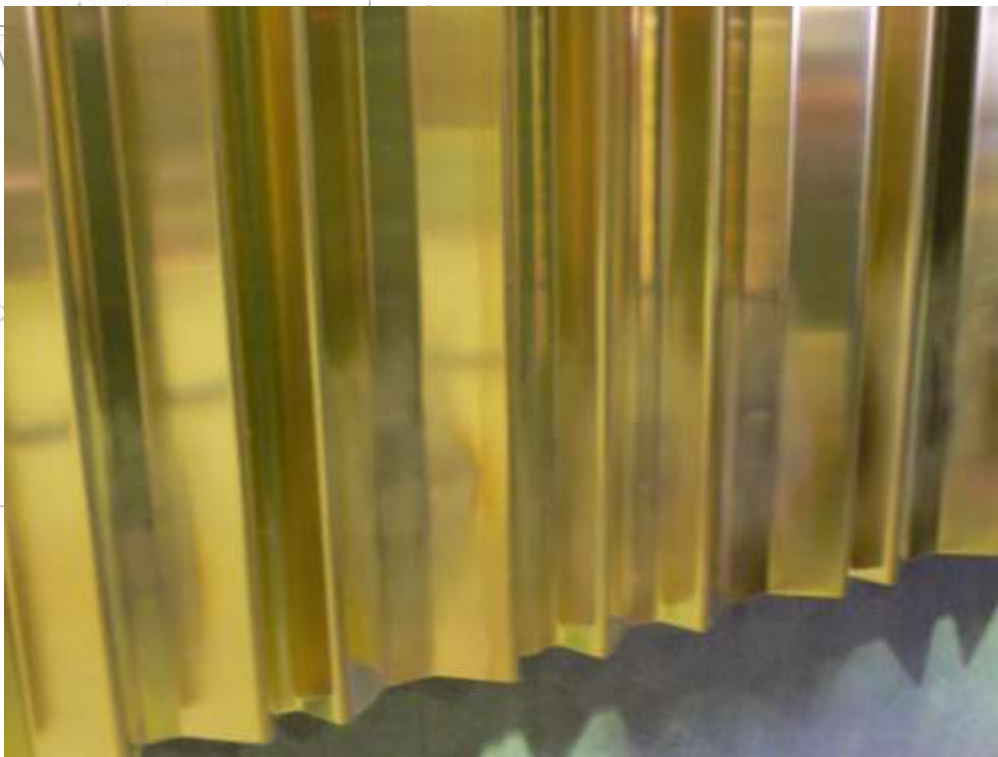
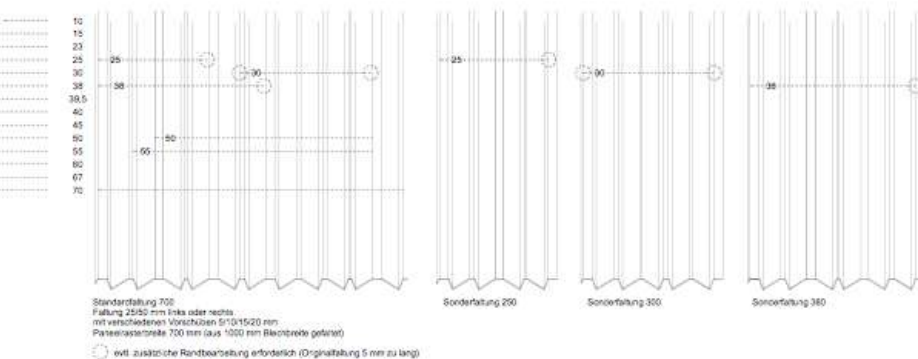
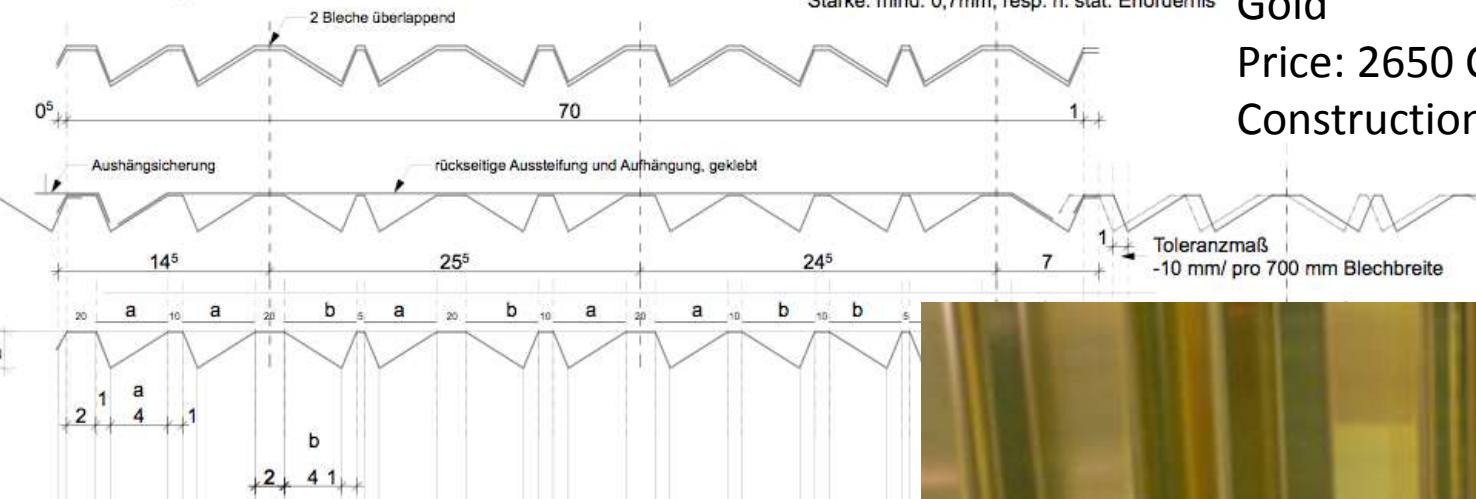
gekantetes Messingblech TECU Brass
Breite: 700 mm, Tiefe: 27 mm
Sonderprofilblech mit Sicken SZ 25/50 R
Stärke: mind. 0,7mm, resp. n. stat. Erfordernis

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/m²

Construction: 600 CZK- 1200 CZK

supporting construction included



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

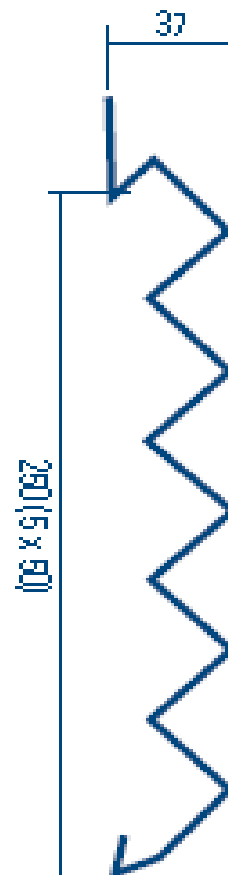
Montaform Design 35-5/250

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



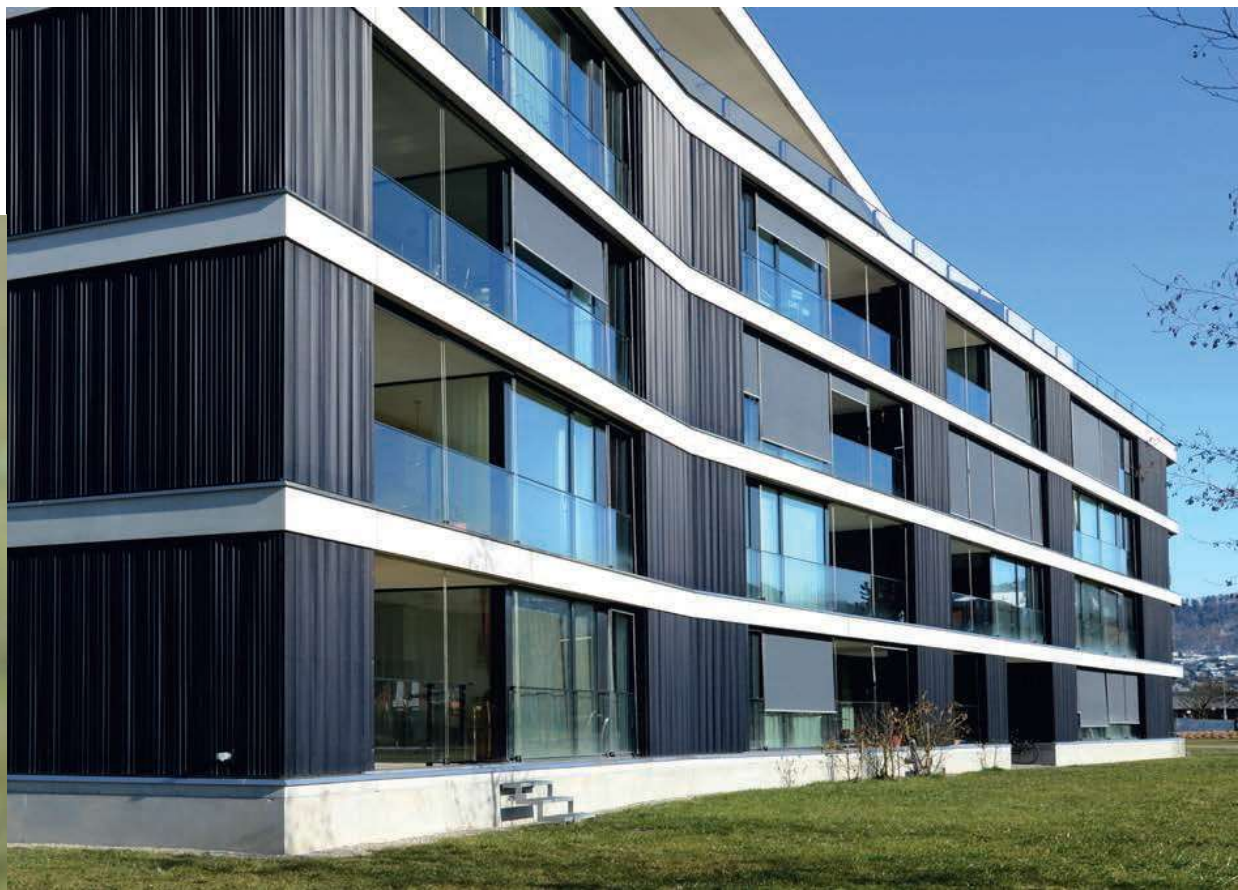
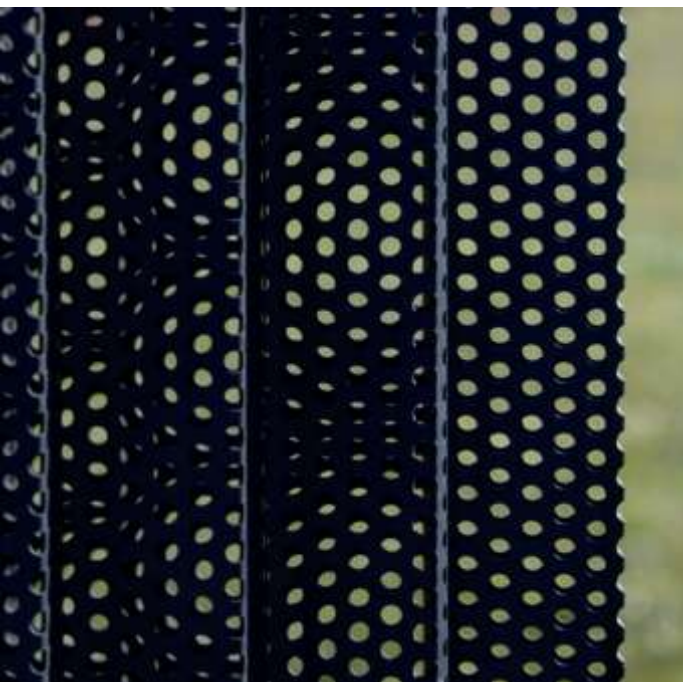
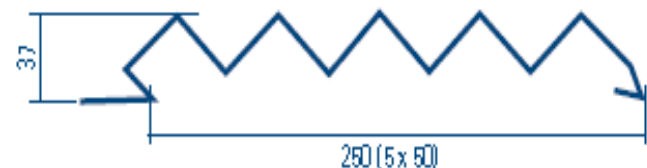
Riedepark, Zug (CH)

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

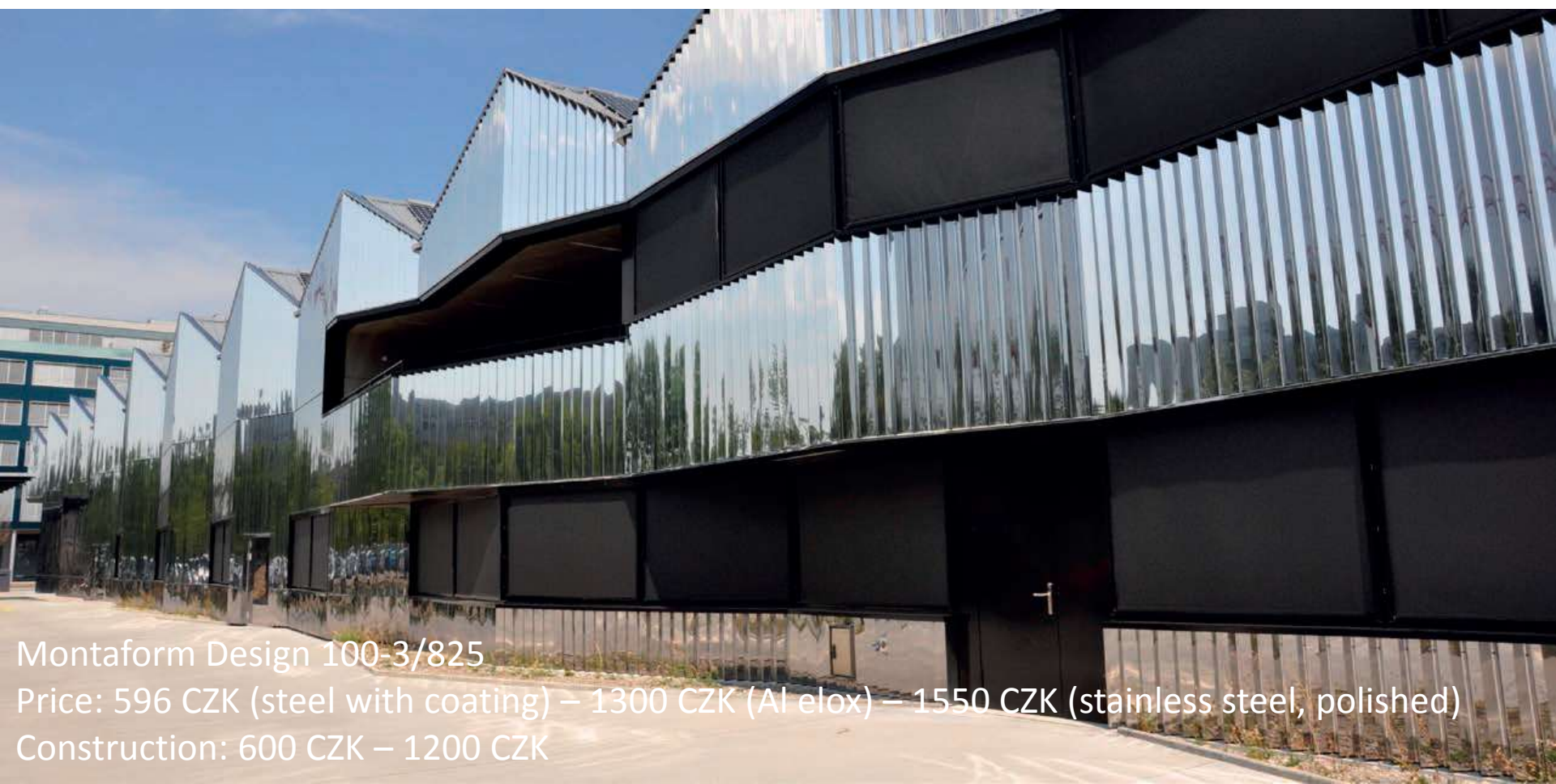




Sawtooth profiles – MONTAFORM Design, stainless steel



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



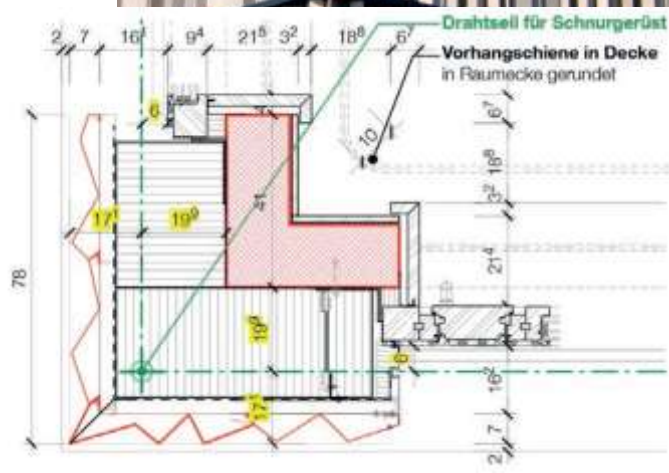
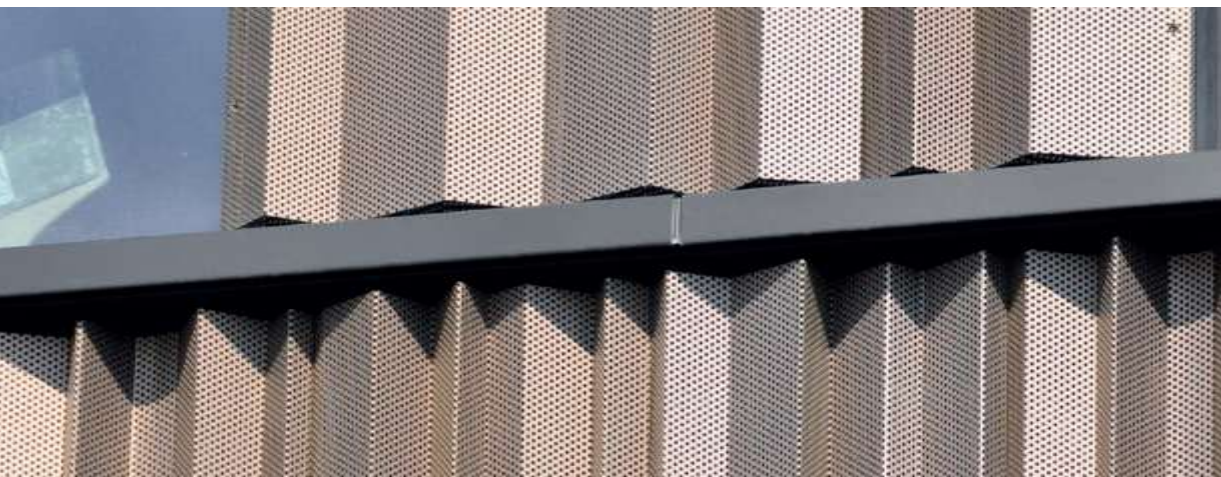
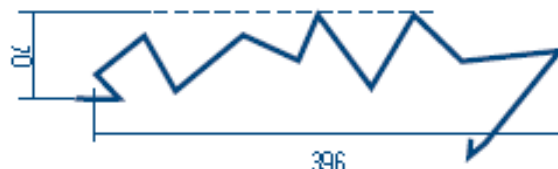
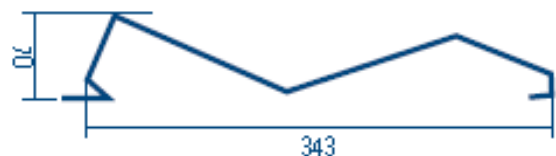
XXXX

Price: XXX CZK

Construction: XXX CZK



ST. JOSEF FOUNDATION (CH) 30 variable Al elox perfo
 Price: 1500 CZK - 2100 CZK/m²
 Construction: 700 CZK - 1000 CZK



ST. JOSEF FOUNDATION

30 variable Al elox perfo

Price: 1500 CZK - 2100 CZK/m²

Construction: 700 CZK - 1000 CZK





Sinusoidal profiles (waves profiles)



- For facades, 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

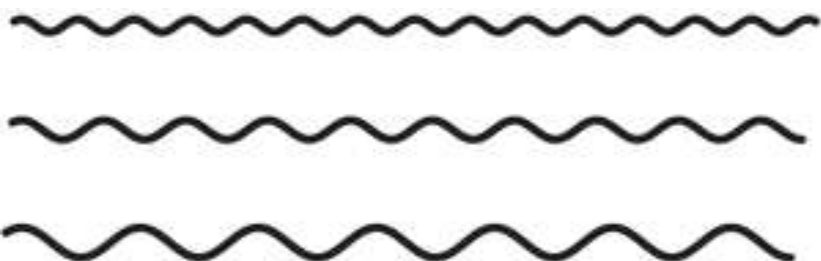
Wave 27/100 steel with coating PE 9006

Price: 240 CZK - 270 CZK

Construction: 300 CZK- 600 CZK

supporting construction included





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

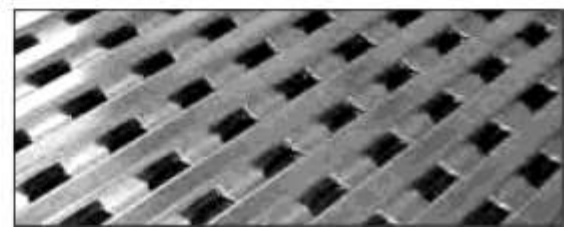
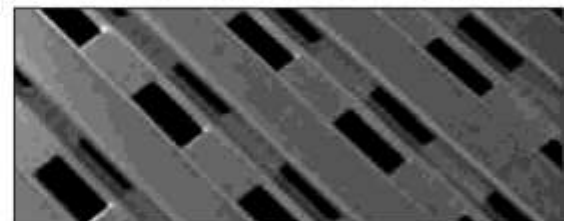
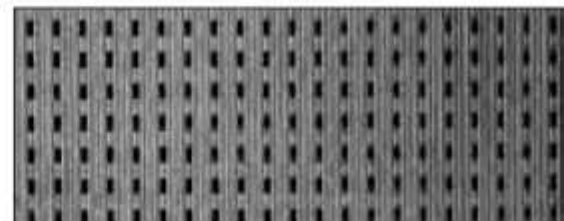
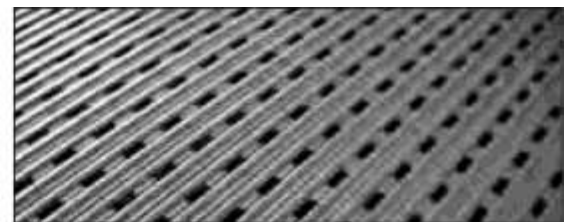
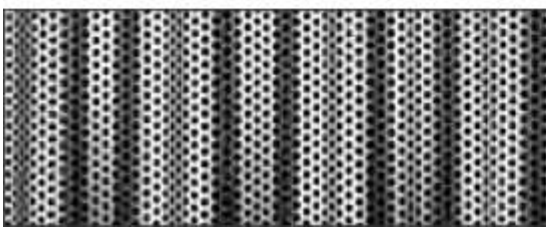
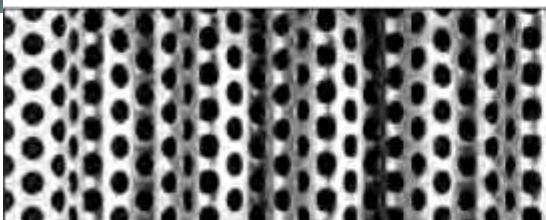
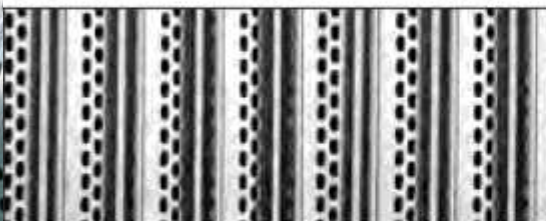
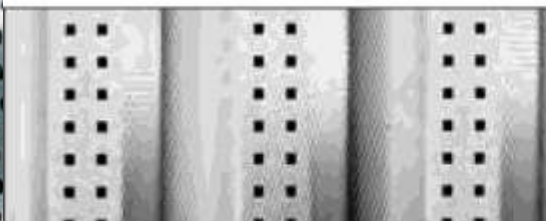
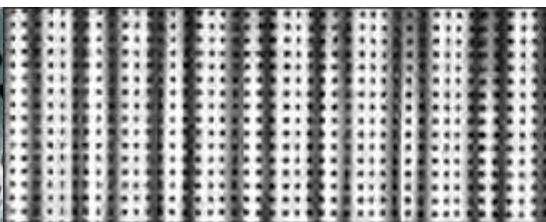
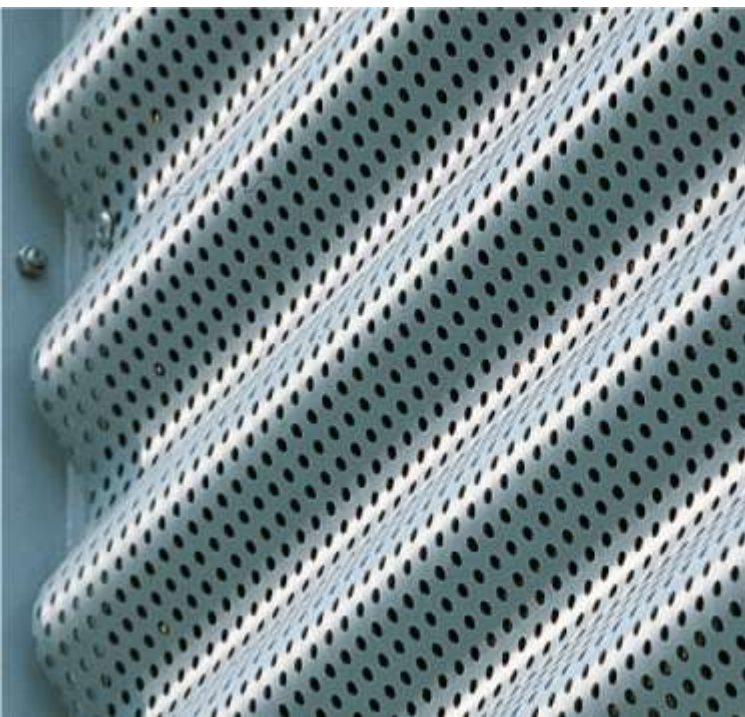
Price: 800 CZK – 900 CZK

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



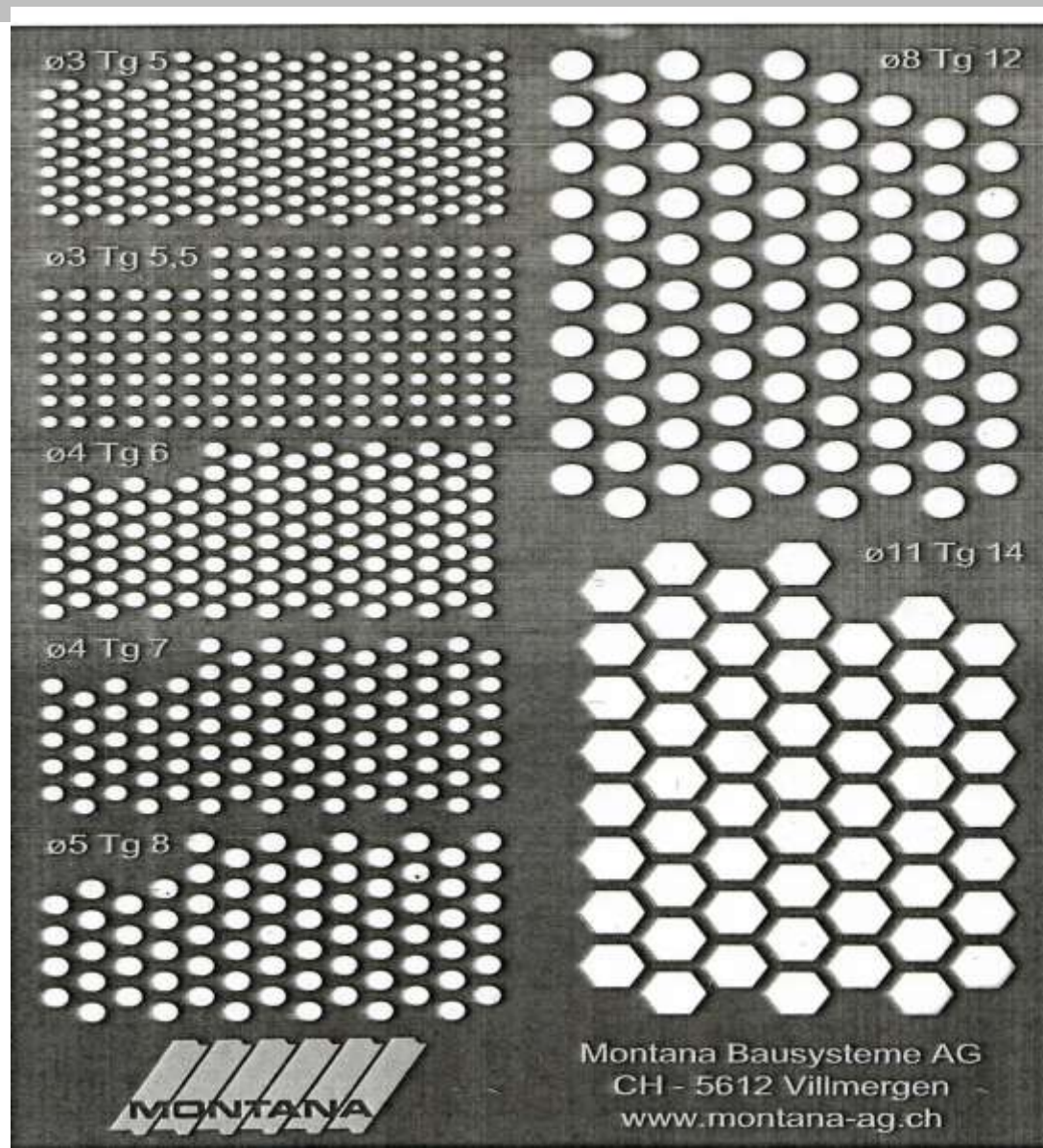
Types of perforation

Samples of designs

Tracked perforation

Price for regular all over
perforation:

50 CZK – 120 CZK/m²









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

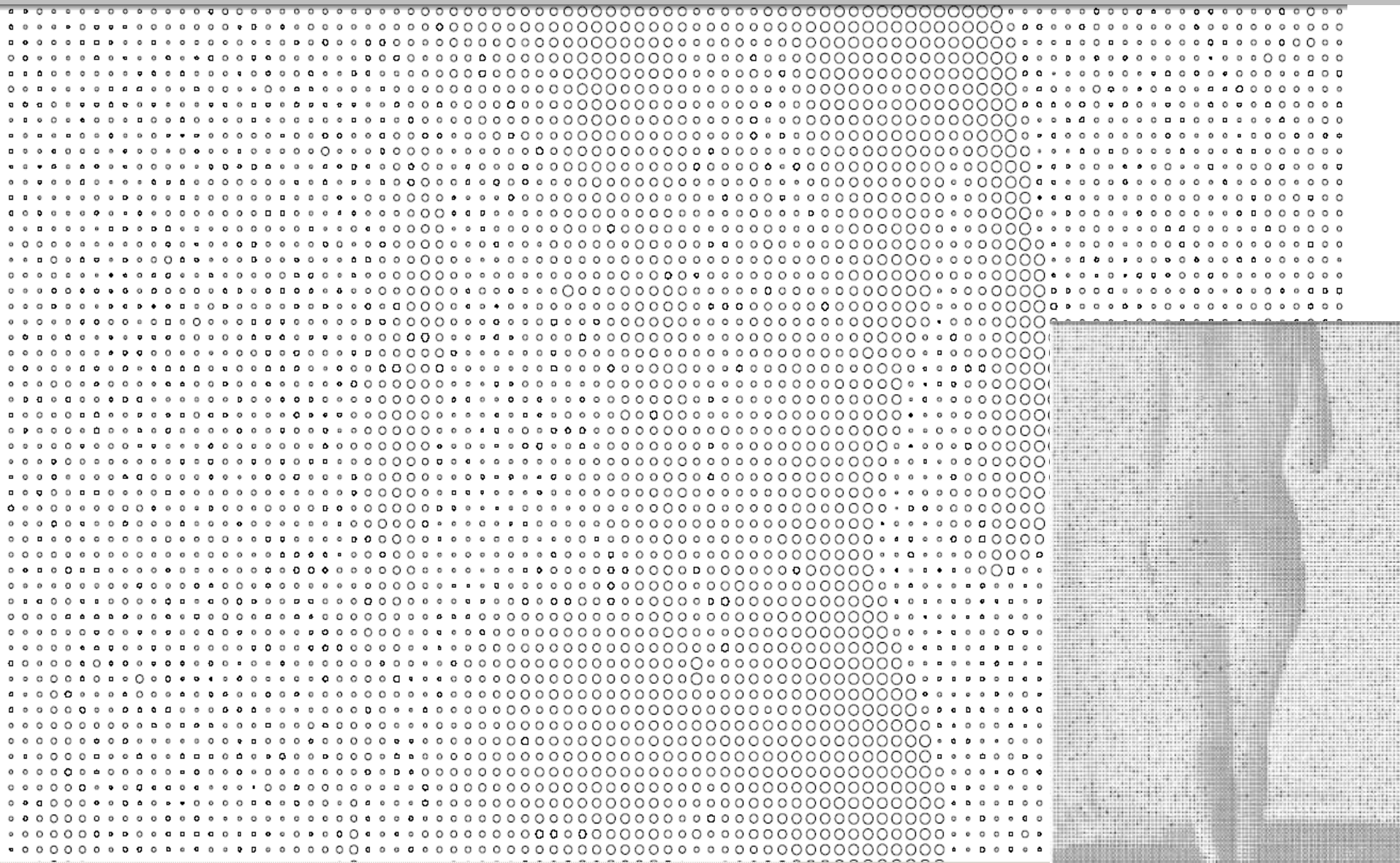
Construction: 500 CZK – 700 CZK





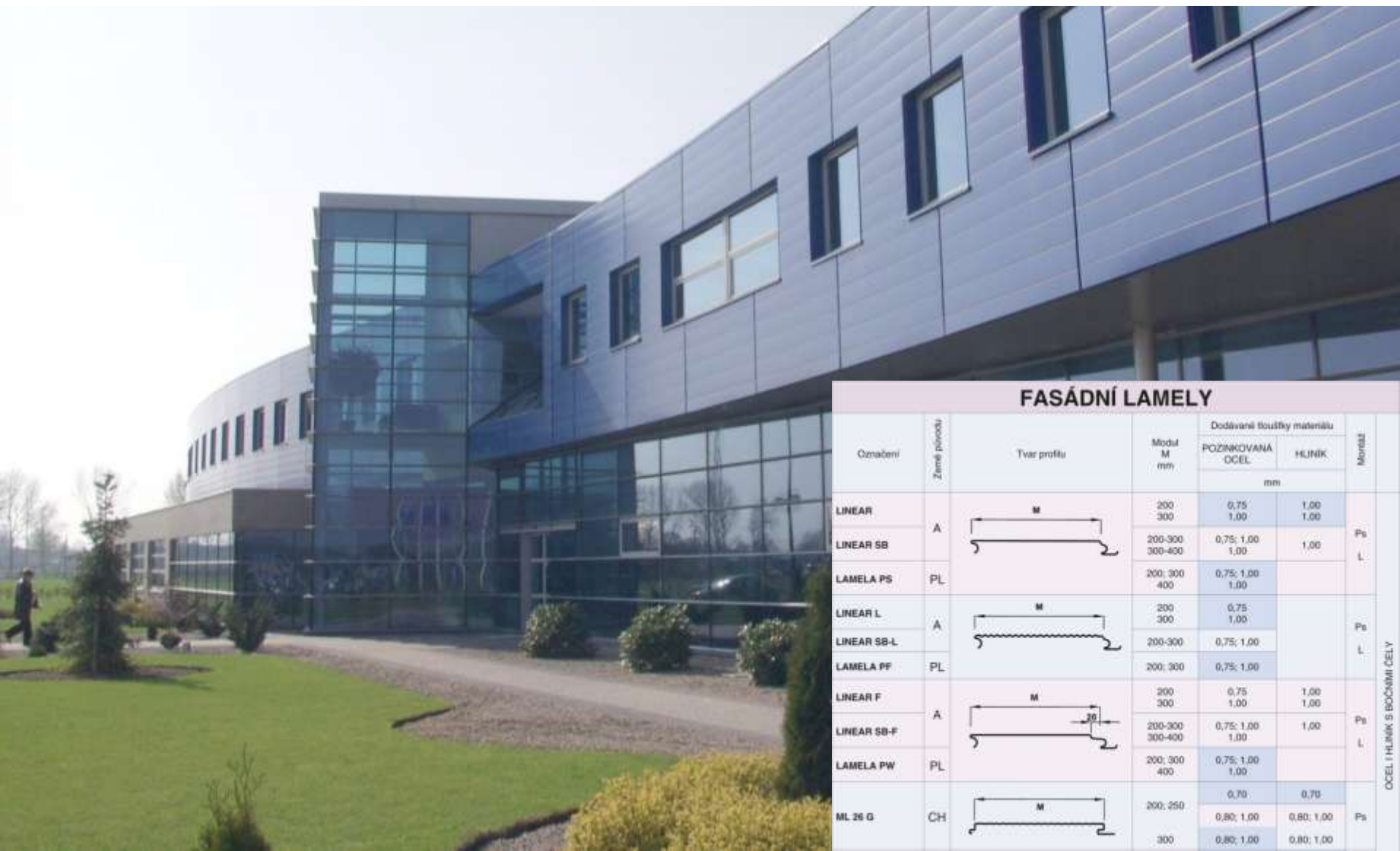
Sample of using with perofated waves profiles



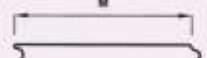
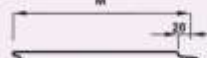
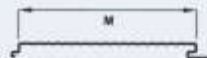




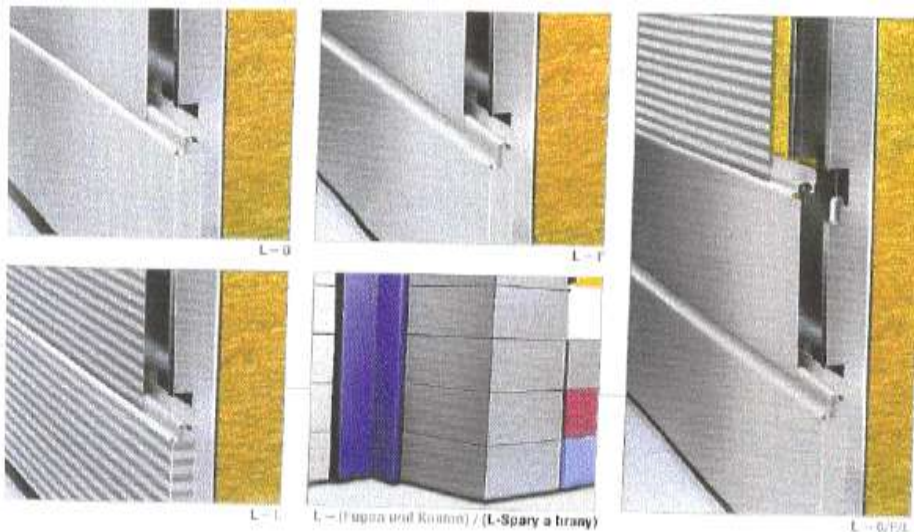
**Teapeutic center
Austria**



FASÁDNÍ LAMELY

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

OCEĽ I HLINÍK S BOČNÍM ČELEM



Hoffmann



RENAULT - Prague



INTERSPAR – Mladá Boleslav



Lamela IDEAL – Dekmetal ocel povlěkaná
Cena: 550–900 Kč/m²
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 :

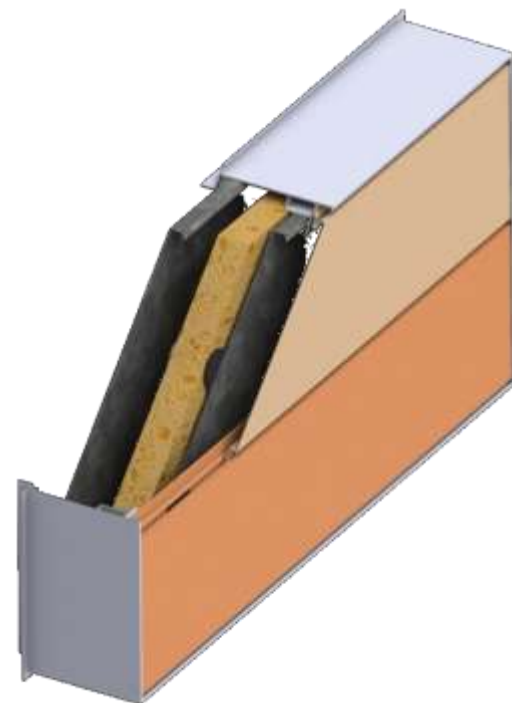
- For even desing is necessary the an absolute level of supporting contruction
- Better the thickness minimal 1,00mm, otherwise there is a big risk of non-ideal flatness of the facade
- Maximal recommended module of 400mm
- Maximal lenght up to 6000mm



System Saray COTTA

Facade lamelas from extruded aluminium

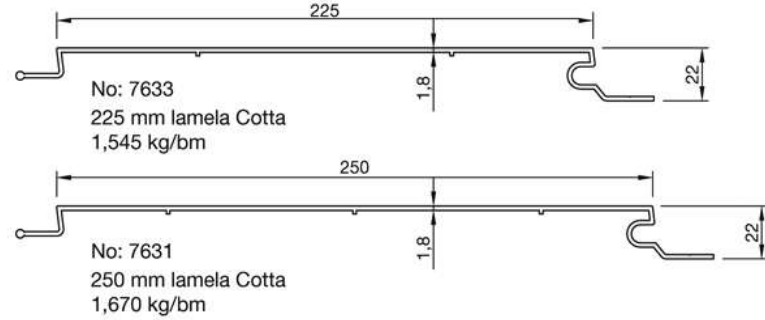
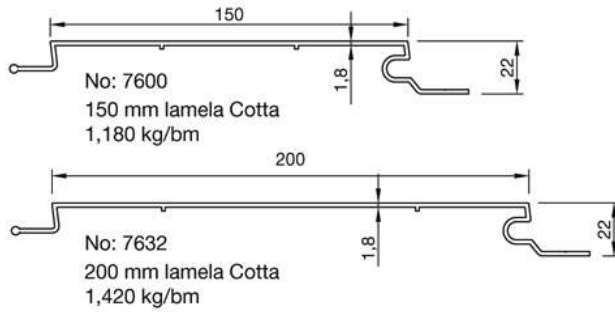
- Solid aluminium 1,8 mm - weight 6–8 g/m²
- Anodized aluminium or powder coating
- Possible design CERAMICS – the same look, less weight.



XXX

Price: XXX CZK

Construction: XXX CZK



Saray Cotta – Analiz Örneği / Analysis Sample

(1,20 m x 3,12 m = 3,744 m² için) (1 m²-7,72 kg)

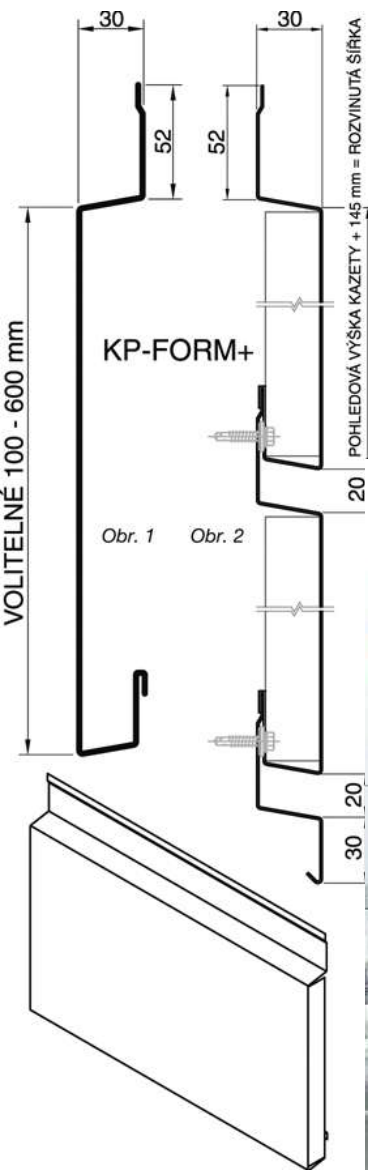
Malzemenin Cinsi	Birim	Miktar	Toplam
7601 Dikme profili	0,870 kg/m	6,240 m (3,12 m x 2 ad)	5,43 kg
7631 250'lik cotta	1,670 kg/m	14,064 m (0,586 m x 24 ad)	23,49 kg
80 x 150 Ana Braket	3 adet	1 adet	3 adet
80 x 80 Ara Braket	3 adet	1 adet	3 adet
Epil 200	2 adet	24 adet	48 adet
4,8 x 15 mm Geniç Kafa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



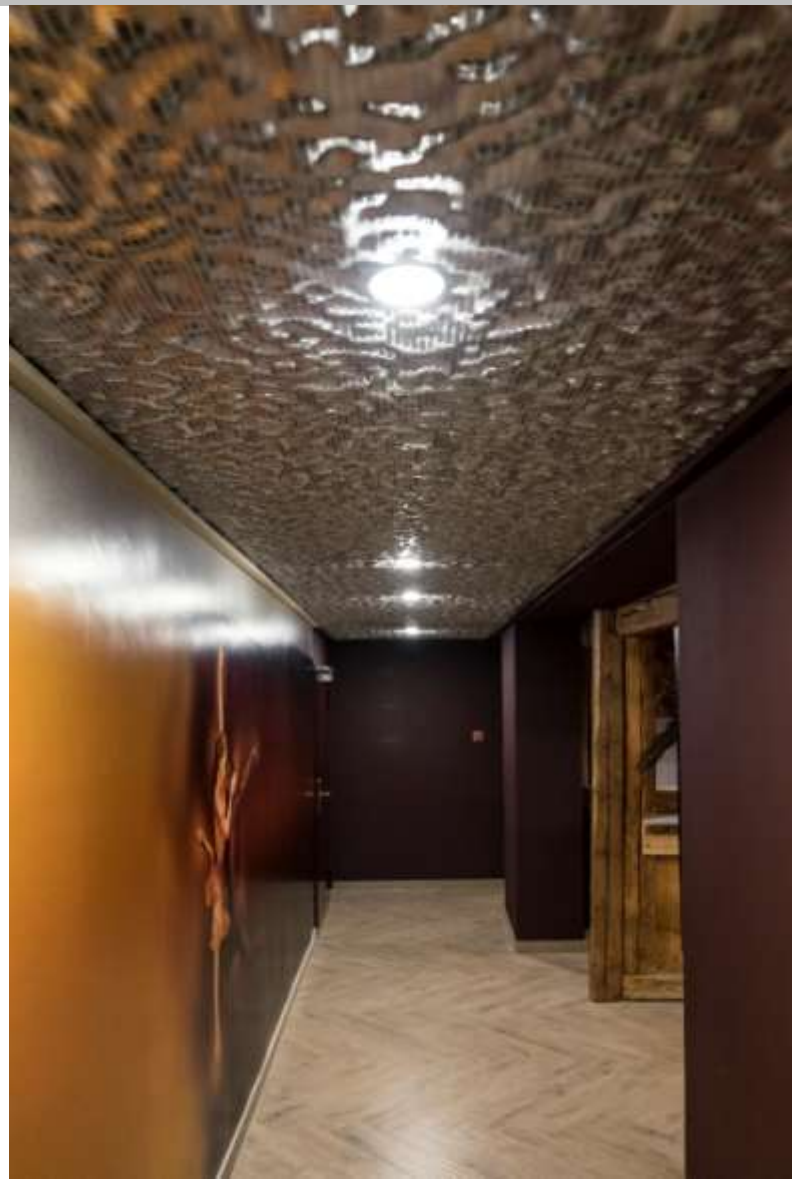




3D facade panels BINDER

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





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



Photo by Satoru Mishima, Nikkei BP

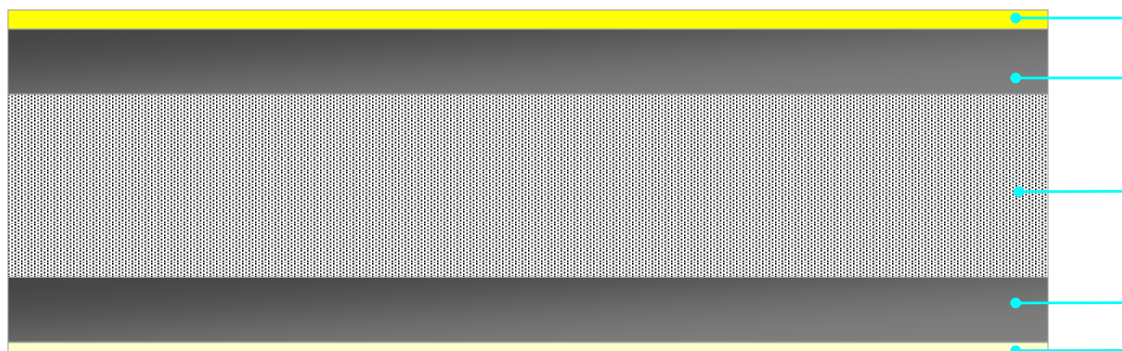


Rozměry

- Tloušťky panelů 3, 4 a 6 mm
- Šířky panelů 965, 1250, 1285, 1500 a 1585 mm
- Od 1000 m² volitelná šířka 800 až 2050 mm
- Max. délky 7200 mm *

Charakteristika

- PE jádro
- Hmotnost panelů fr jádro – cca 7,6 kg/m²
- Hmotnost panelů A2 jádro – cca 8,1 kg/m²
- 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

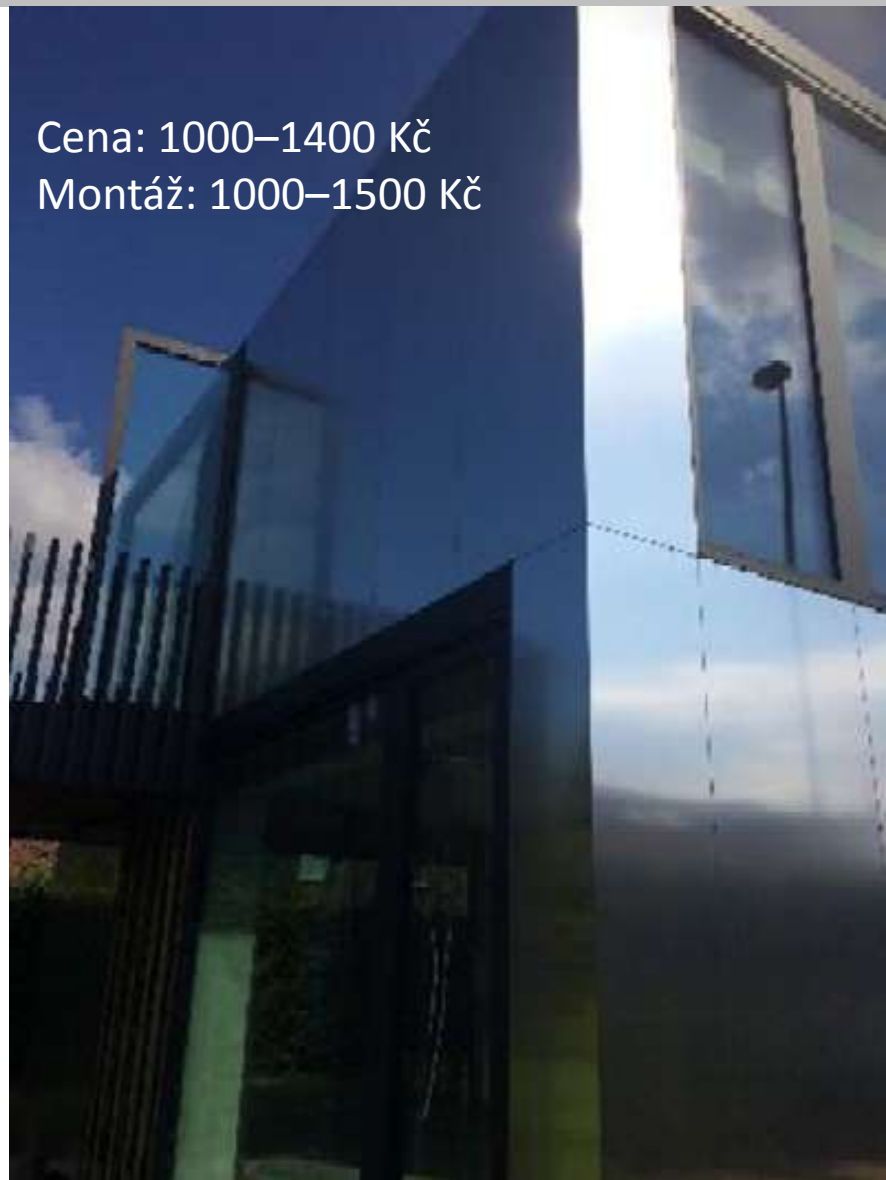
- Výborná ochrana proti korozi
- Velmi dlouhá životnost
- Záruka na lak až 25 let
- Vrstva eloxu vhodná pro velmi ostré ohyby
- Velký výběr odstínů a lesků:
 - Bronz světlý až téměř černý
 - Zlaté, měděné, zinkové odstíny
 - Přírodní elox
 - Broušené dekory
 - C-brite – zrcadlový efekt

Antigrafitti – lze umýt od polakování

Vila, HOVE (Be)
C-brite

Cena: 1000–1400 Kč

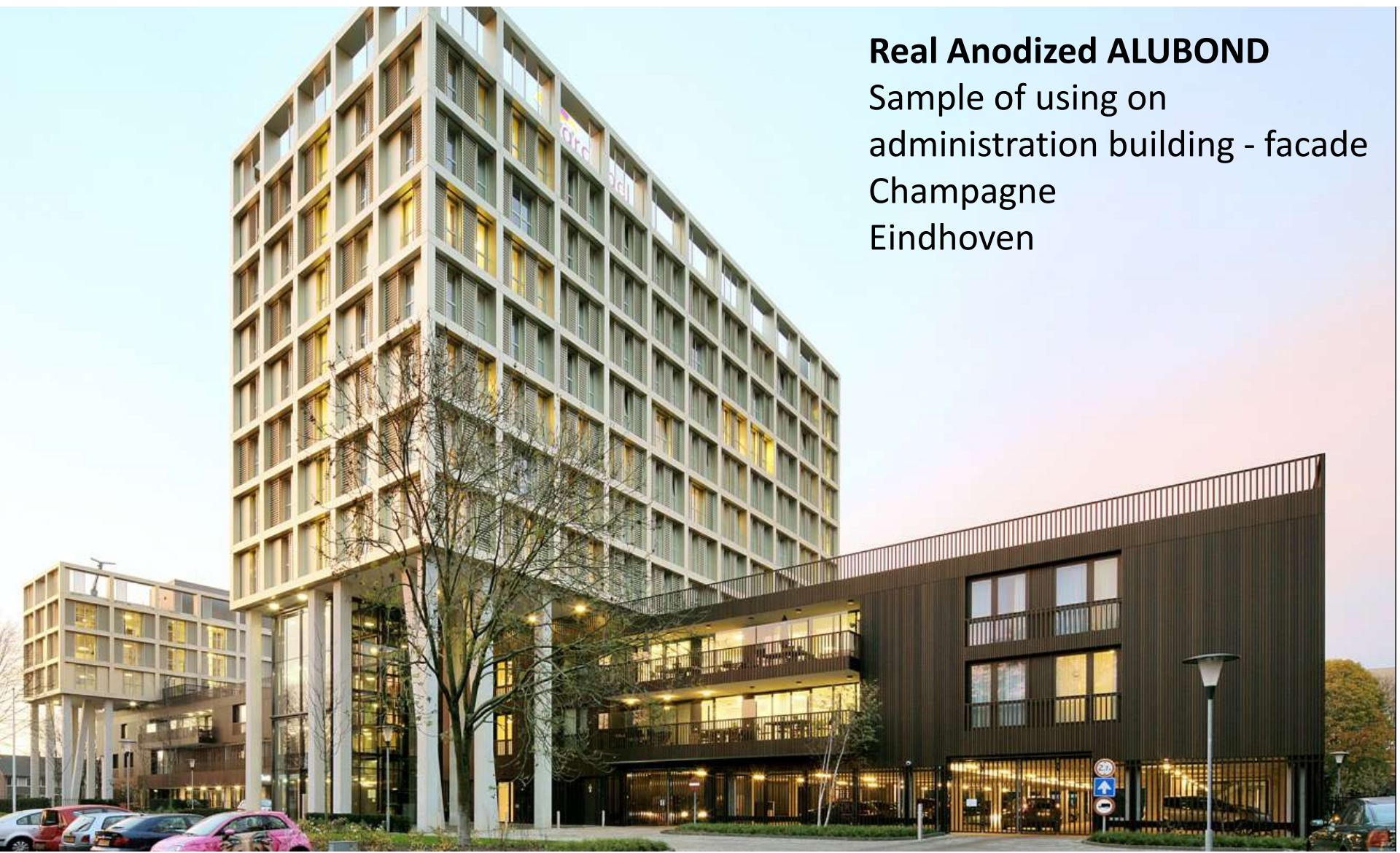
Montáž: 1000–1500 Kč





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 m² or decor from 500 m²

Minimum paint thickness (always 3-layer):

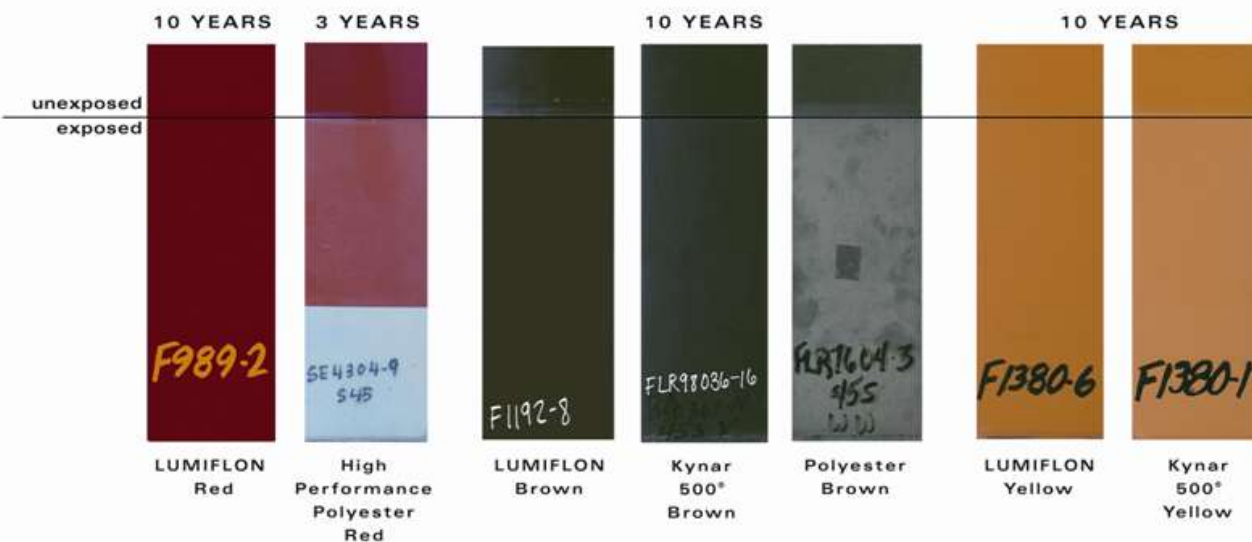
Solid colors – 30 µm

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

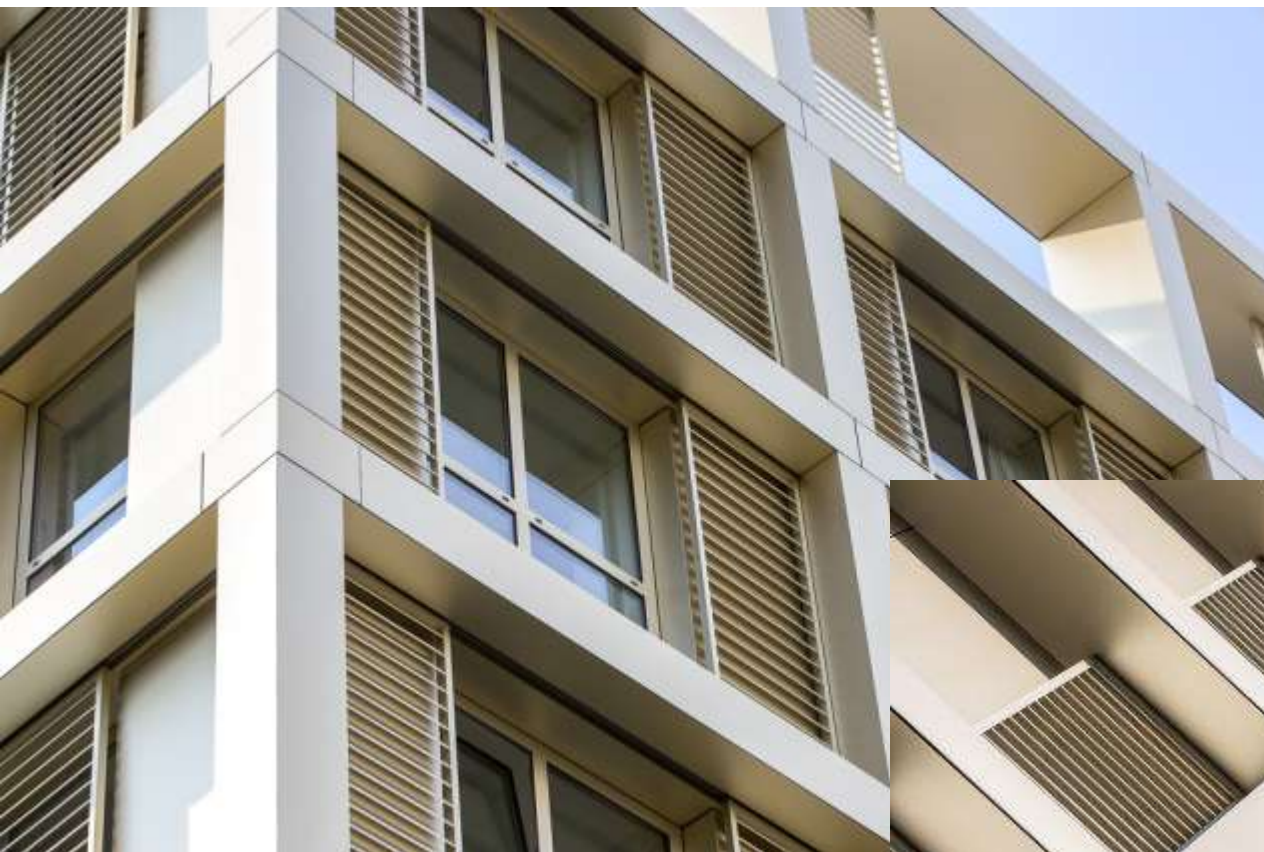
Construction: 1200 CZK – 1500 CZK



Alpolic SCM

Alpolic TCM



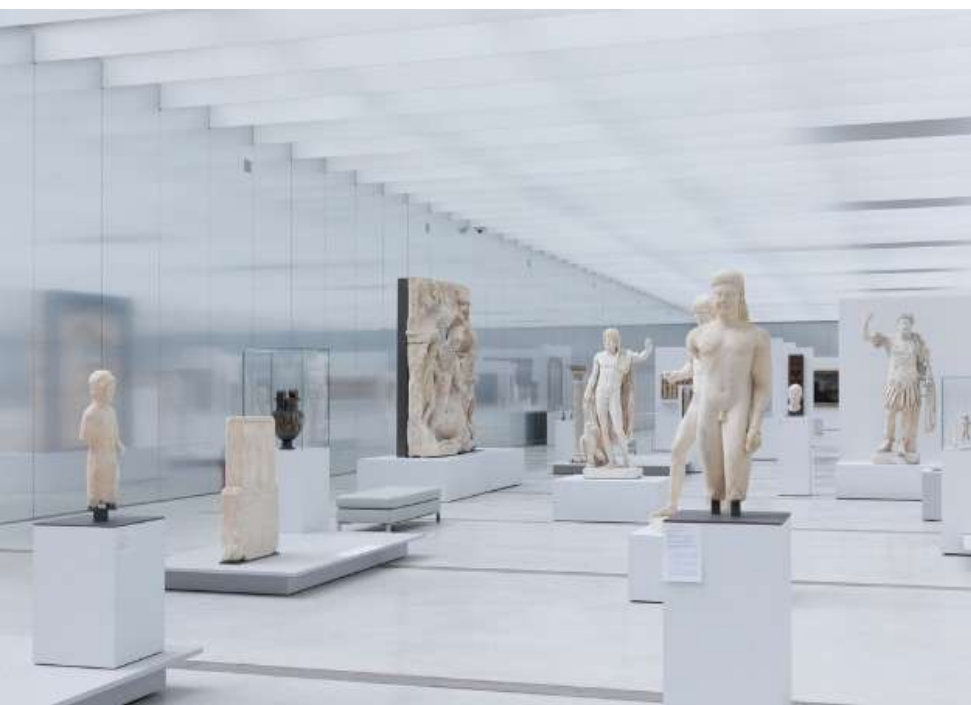


**Real Anodized
Alpolic A2**

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

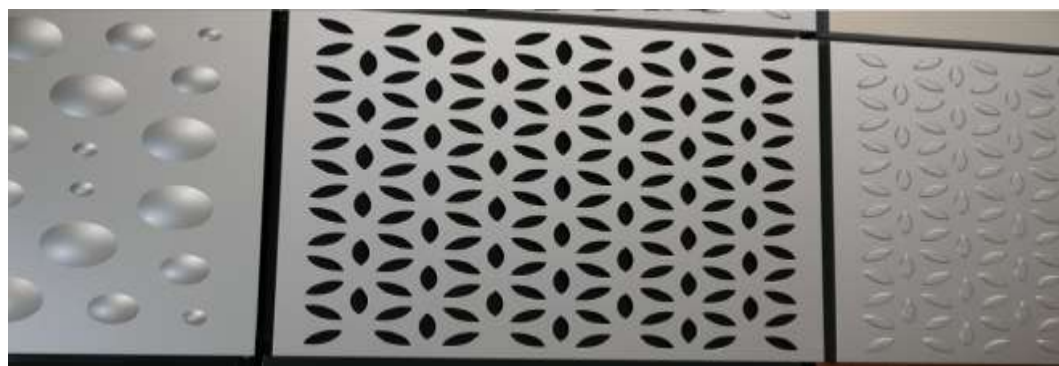
- Standard tools and machines for aluminum and wood
- Ideal CNC machines

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 m²
- Hotel Mariot Prague Airport White G80
- Rádio Svobodná Evropa, Praha – 5000 m²
- Citi Green Court Praha 4, White G80
- Vítkovická aréna Ostrava – 8000 m²
- IVG Evropská, Praha – 5000 m²
- **Brno** Masarykova univerzita – 3700 m²
- VUT **Brno**, FSI – 3000 m²
- Vienna Point, **Brno** – 6000 m²
- Bratislava Slovakia Dubravia – 2000 m²
- Bratislava Airport, New Terminal – 700 m²
- Žilina, Slovakia Aupark – 1000 m²
- Bratislava Slovakia ASKO – 750 m²

...a další na www.metalartcz.cz

www.alpolic.com





Composite panels DOLUFLEX - METAL

DOLUFLEX

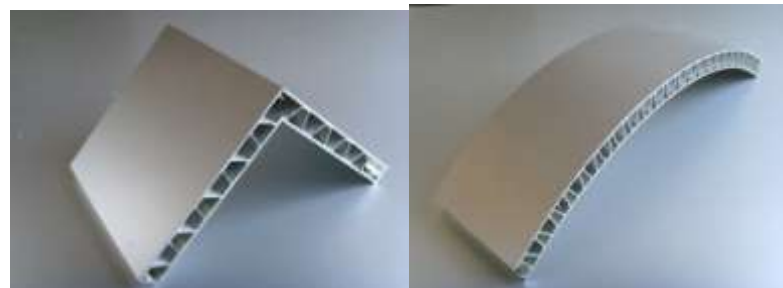
all-metal sandwich composite panel,

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

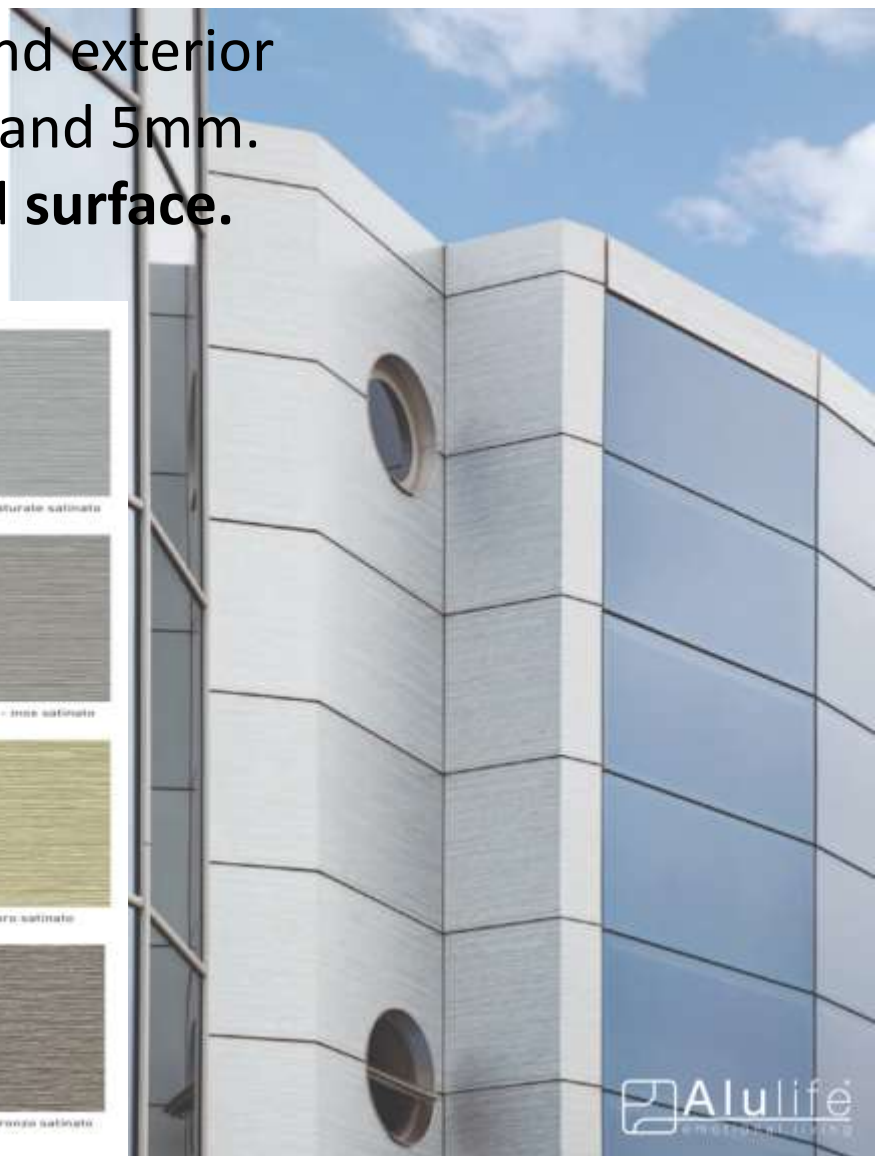


DOLUFLEX realization





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

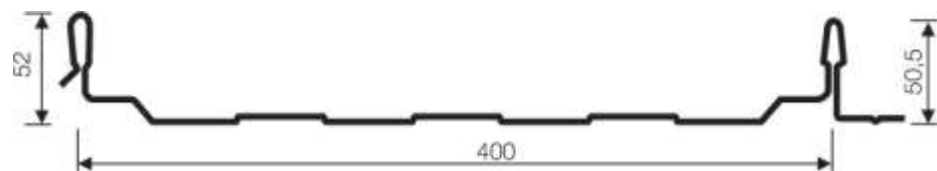
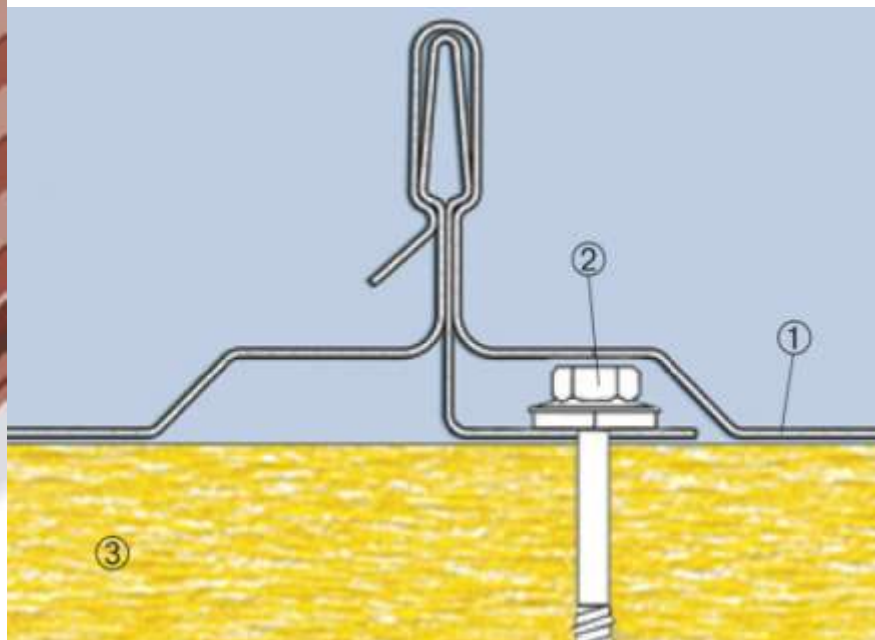
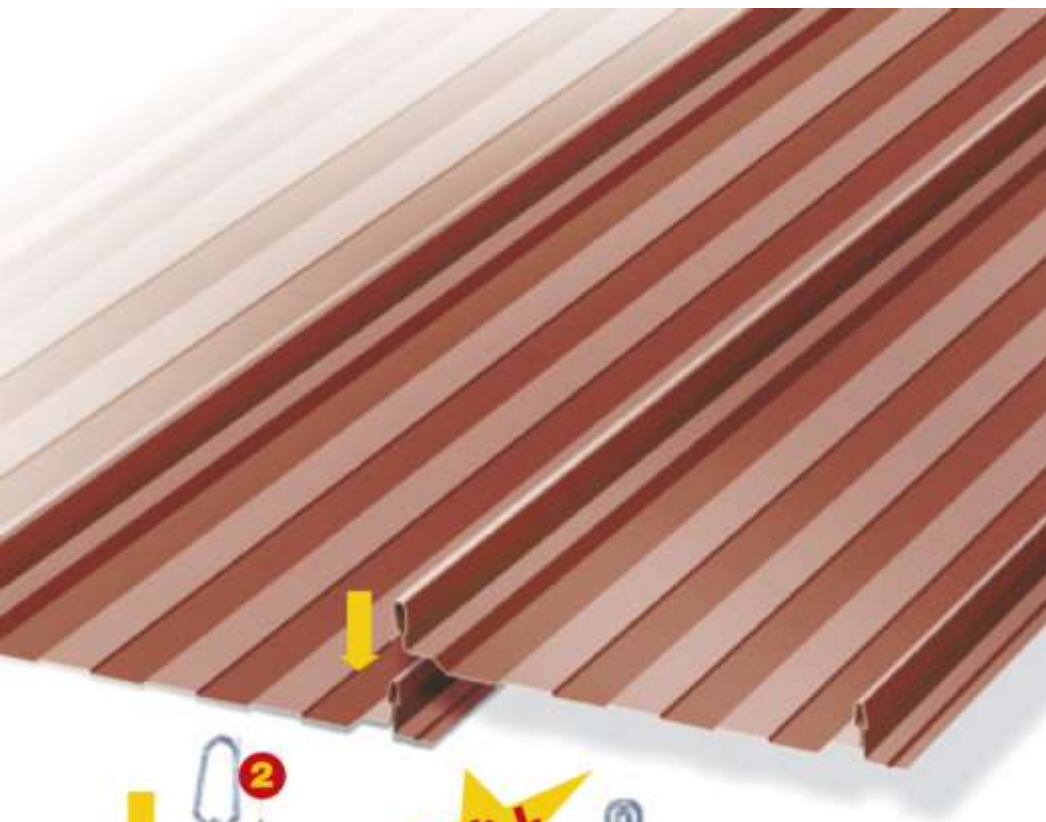


Kliptec



BEMO





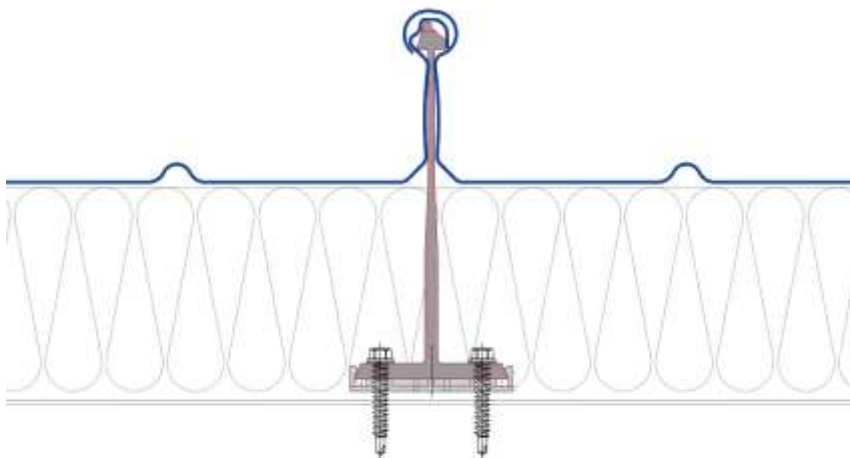
BEMO seamless screw systems for cladding roofs and walls



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

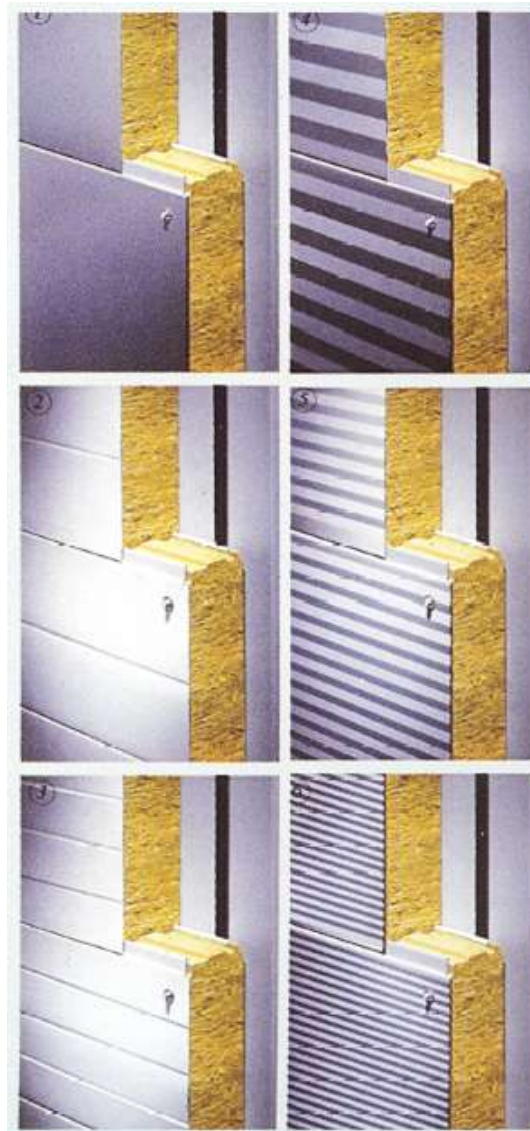
Agro - plastic sheath instead of sheet metal or coated with increased corrosion resistance (Colorcoat HP200 Ultra)



PANASONIC - Plzeň



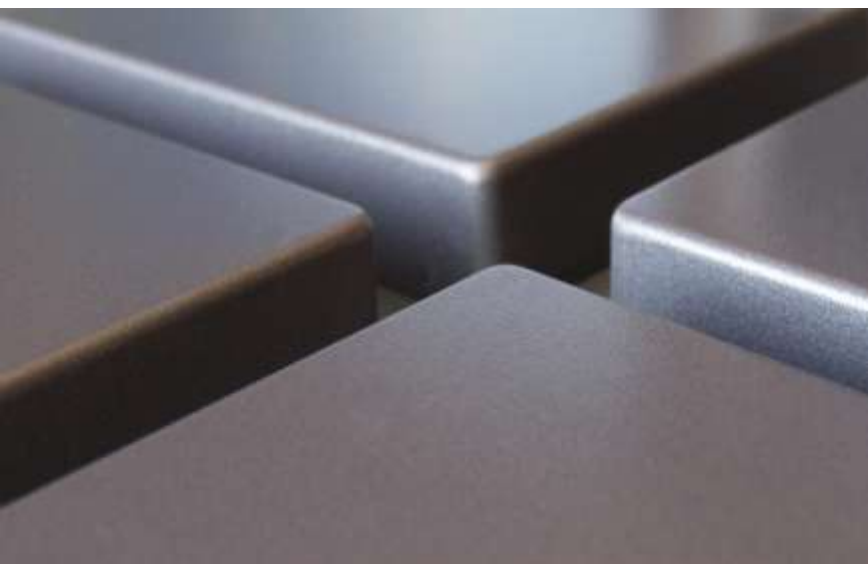
Würth – Mladá Boleslav



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

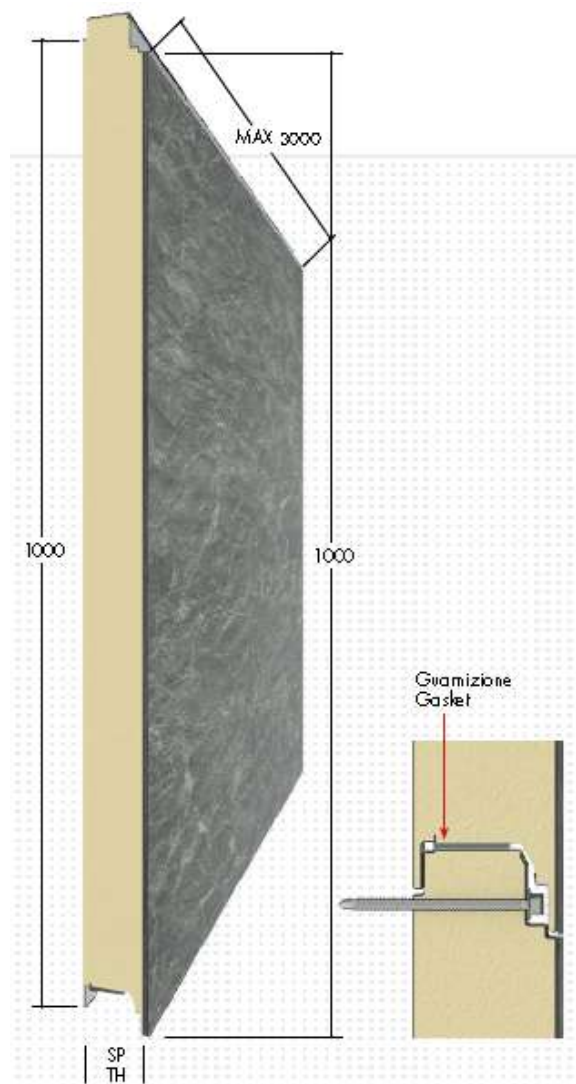
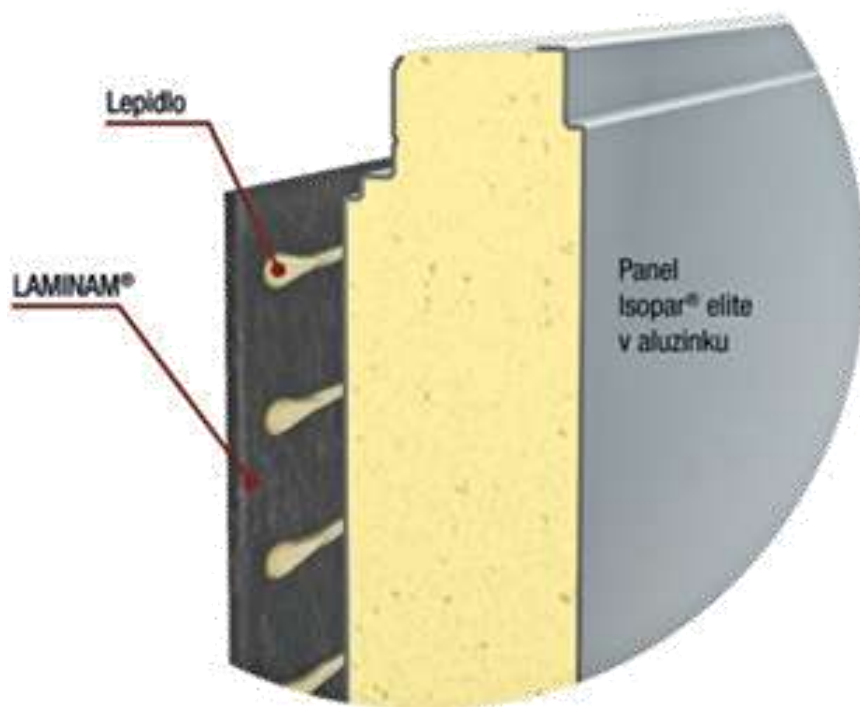
Panely **GIANO** – exterior from ceramics

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

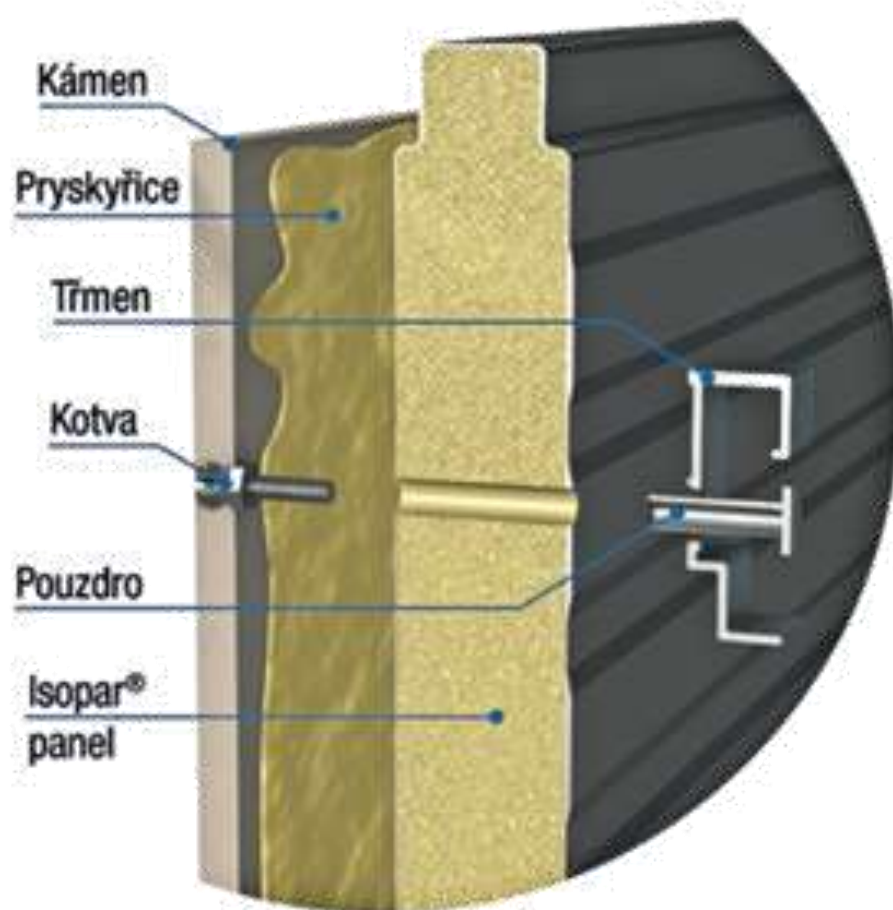
ISOPARSTONE panels - exterior sheath of natural stone

Panels with PUR, PIR and mineral wool

Hidden lock

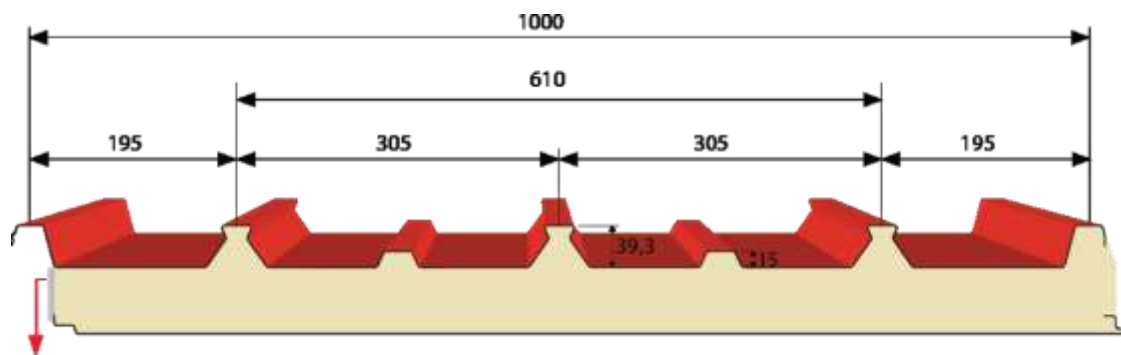
Anchoring using stirrups and hanging into the substructure

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.

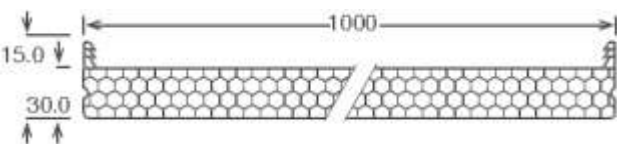


Polycarbonat roof and wall systems Danpalon

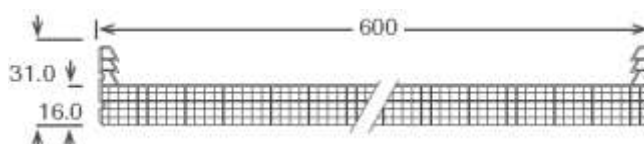


DANPALON systems – types of polycarbonate panels

■ Honeycomb



■ Multicell



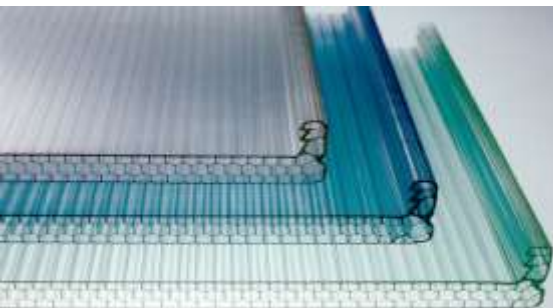
■ Compact DP4



- 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

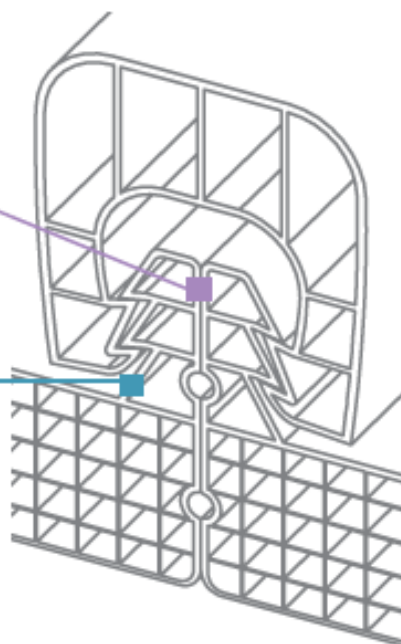
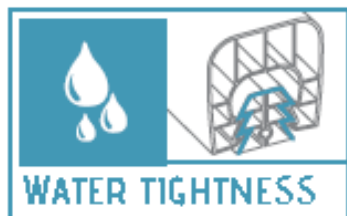
- Multicell structure
- Rectangle
- 19 standard colors
- Fire resistance: b-s1,d0
- Thickness 8; 10; 12 a 16 mm
- Standard width 600 a 1040 mm

- Solid panel th. 4 mm
- 6 standard colors
- Fire resistance: b-s1,d0
- Weight 5,14 kg/m²
- A snap-on connector + transparent space profile
- Standard width 592 mm



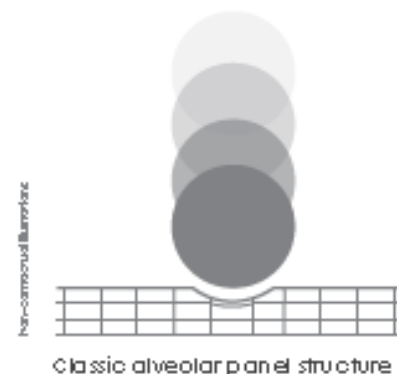
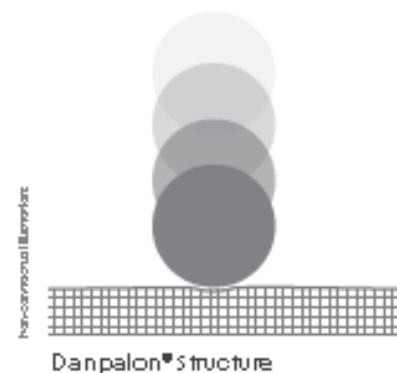
DANPALON systems

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 4mm	Multicell / Honeycomb 8mm	Multicell / Honeycomb 10mm	Multicell / Honeycomb 12mm	Multicell 16mm	Honeycomb 30mm
REFLECTIVE GREY	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
BRONZE	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
GREY	LT %	41	30	30	30	31	On Request
	ST %	51	35	35	35	33	
	SR %	12	22	22	22	30	
	SHGC	0.58	0.44	0.44	0.44	0.44	
OPAL	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
GREEN	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
ICE	LT %	55	60	60	60	51	On Request
	ST %	58	54	54	54	50	
	SR %	26	32	32	32	38	
	SHGC	0.61	0.57	0.57	0.57	0.52	
BLUE	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
CLEAR	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

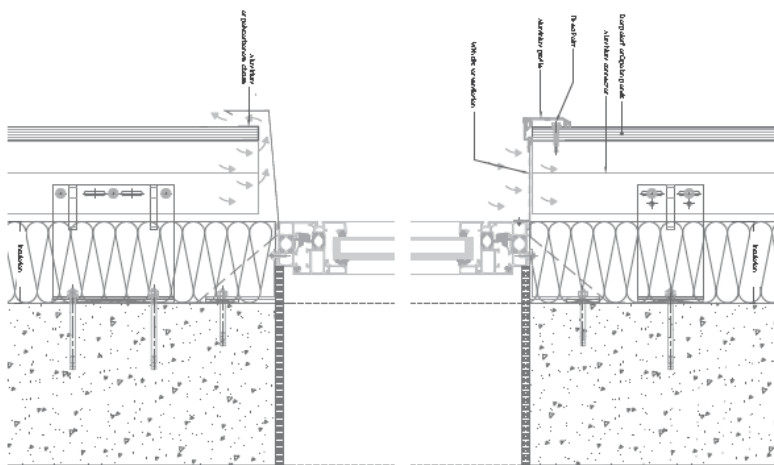
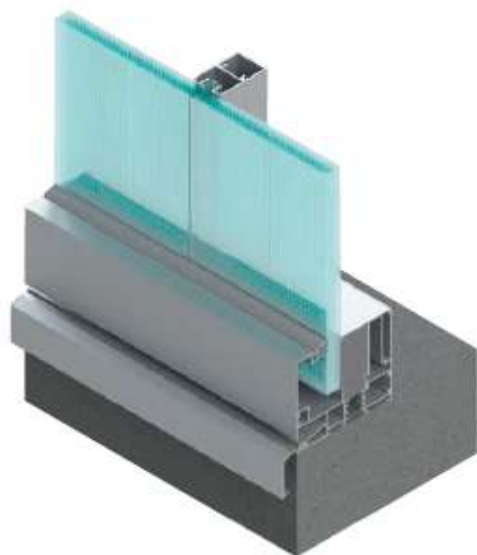
- Great utility value / price
- All types of the panels
- FR: b-s1, d0

Ventilated rainscreen

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

Cassettes wall

- High thermal insulation performance
- Completely factory assembled



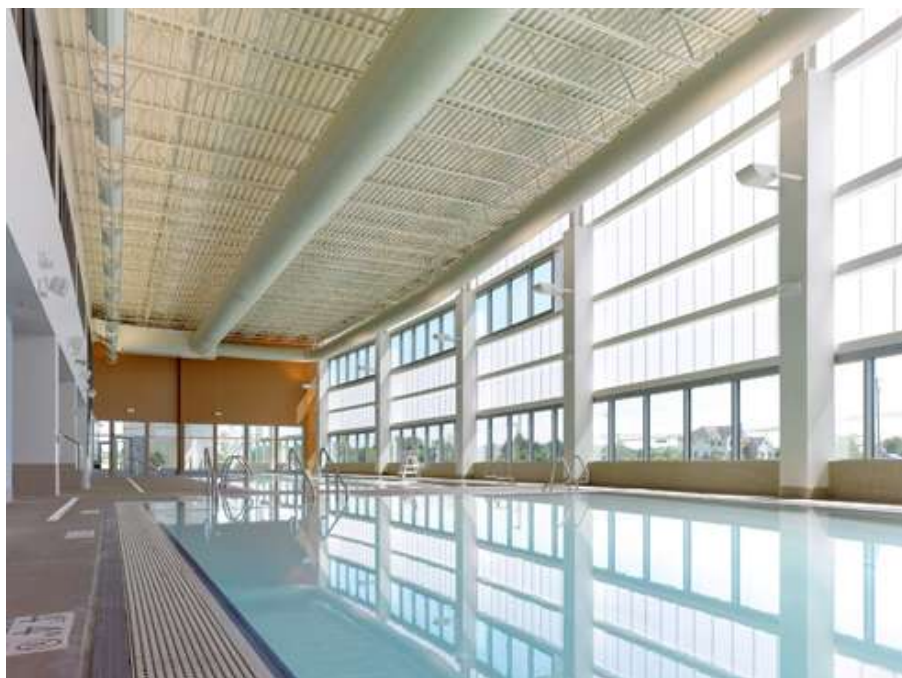
VRS – provětrávaná translucentní fasáda







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



DANPALON systems

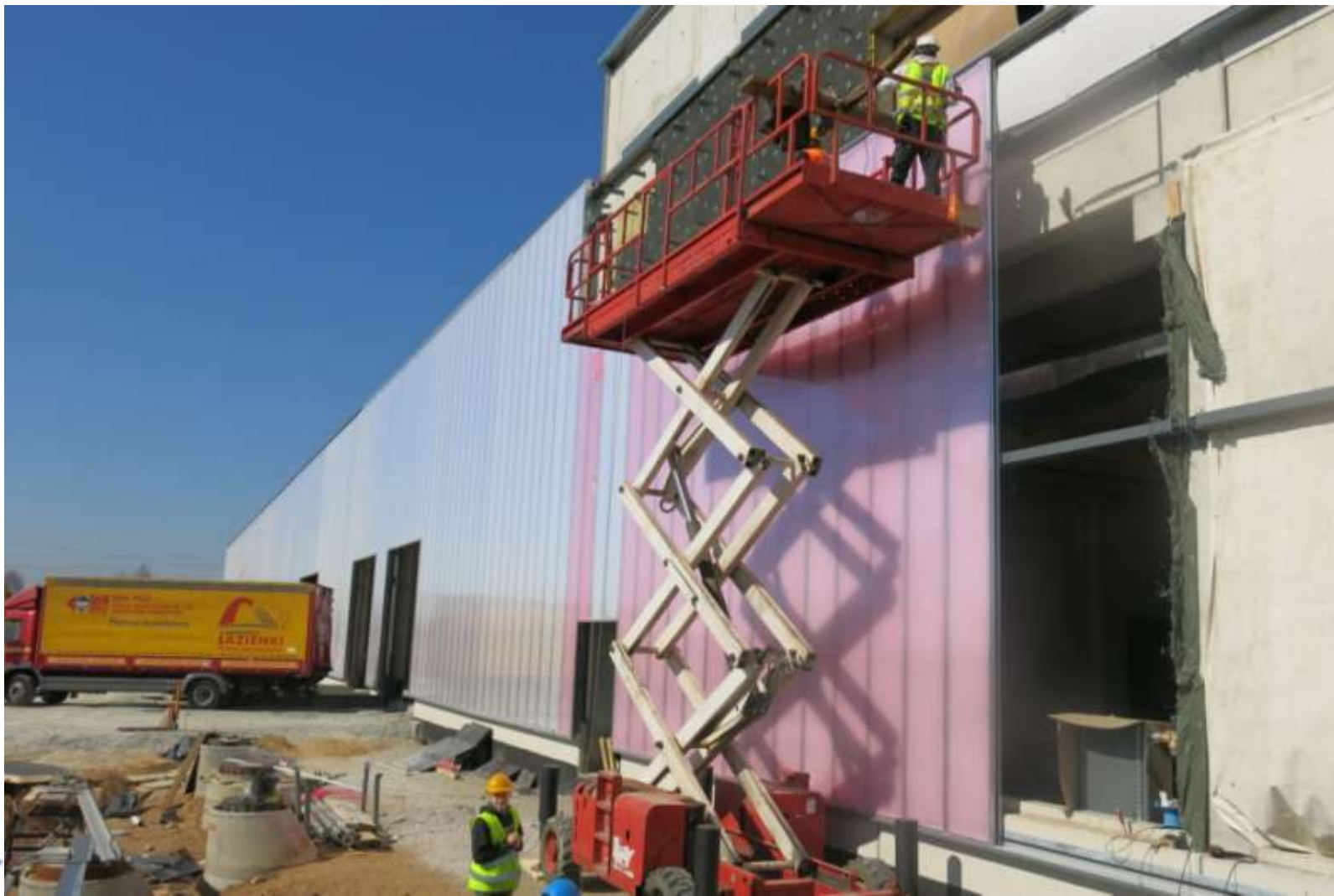
DANPATHERM – Stěnové panely

- **Cassette systems K7 / K12**
- **Fire resistance B-s2,d0**
- **U value = from 1,2 to 0,39 W/m²K**
- **Light transmission – 19 % to 46 %**
- **Span between supports 3000 mm**
- **Colored and illuminated facades**
- **Extremely quick and easy to install**





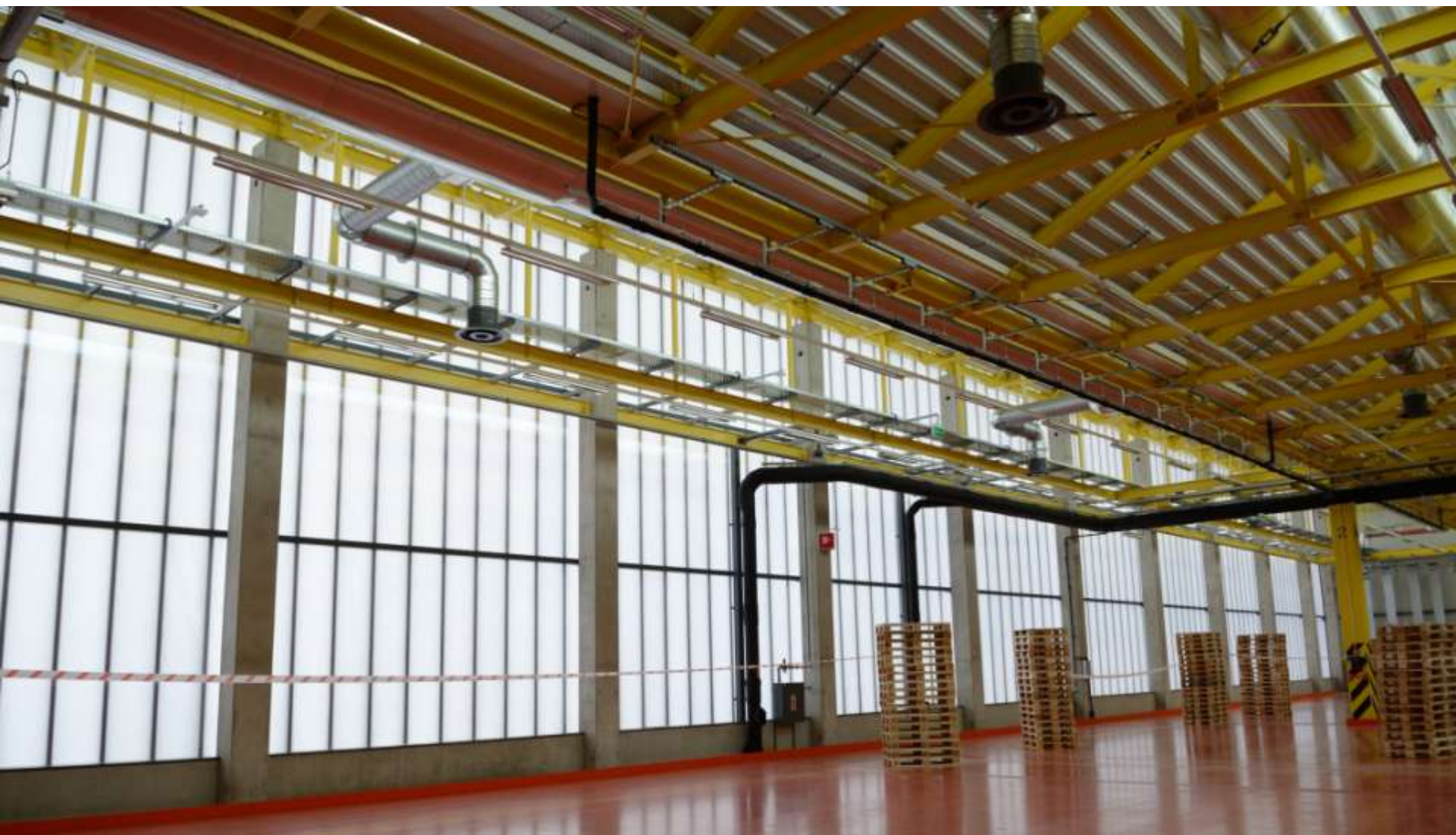
DANPALON - polycarbonate systems - K12 Danpatherm assembly







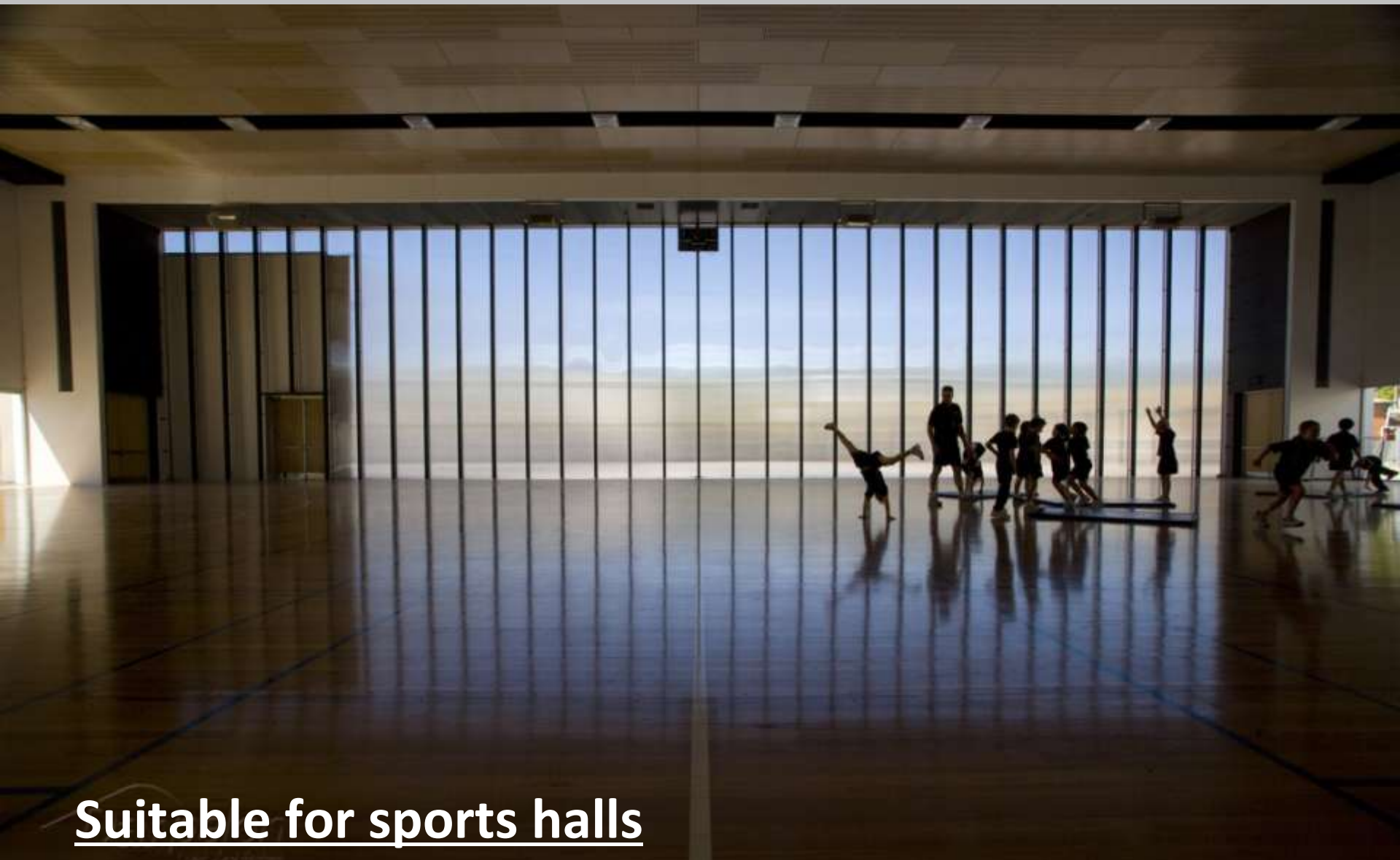
Blum - Polsko – Final interior



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
Ceiling, Danpal Ceiling System, 16mm, Blue, Ice, USA

Suitable for sports objects



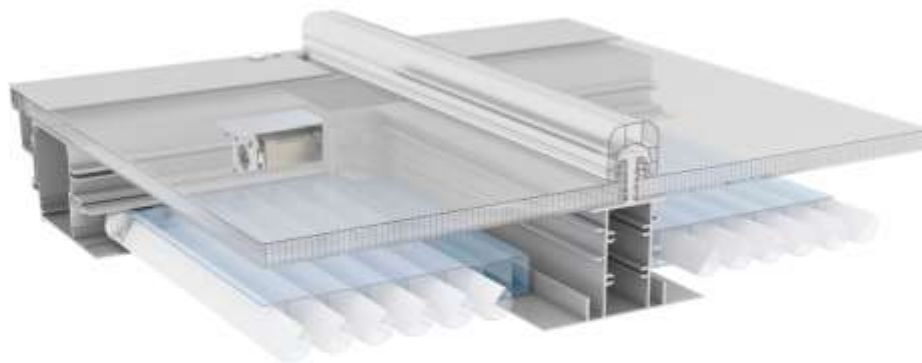
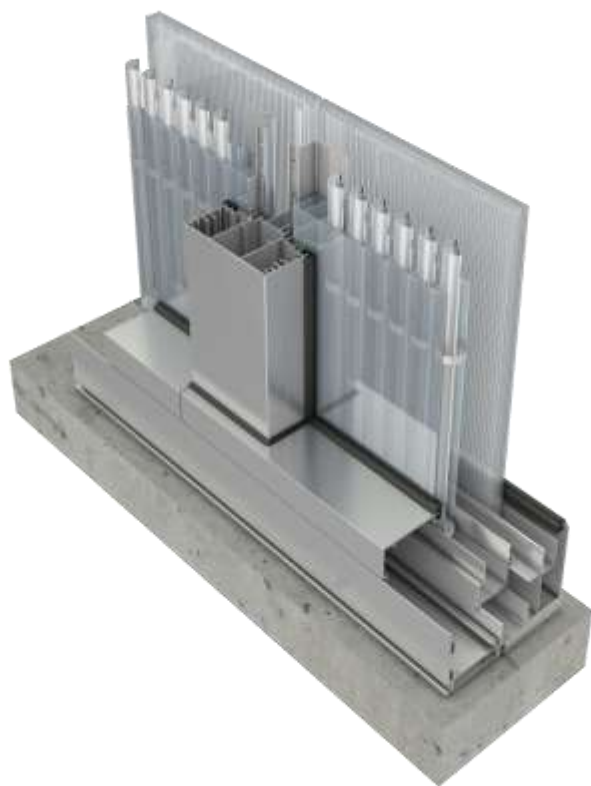
Sports
complex,
France

Self-supporting skylights up to 8.5 m span

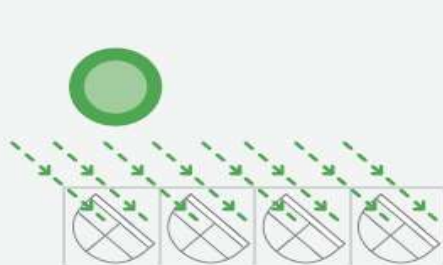




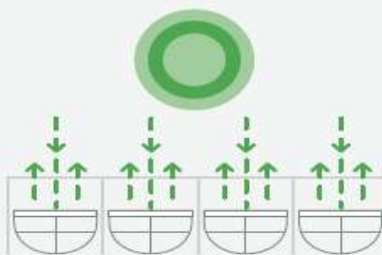
Controlite - a system with controlled light transmission for both wall and roof



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

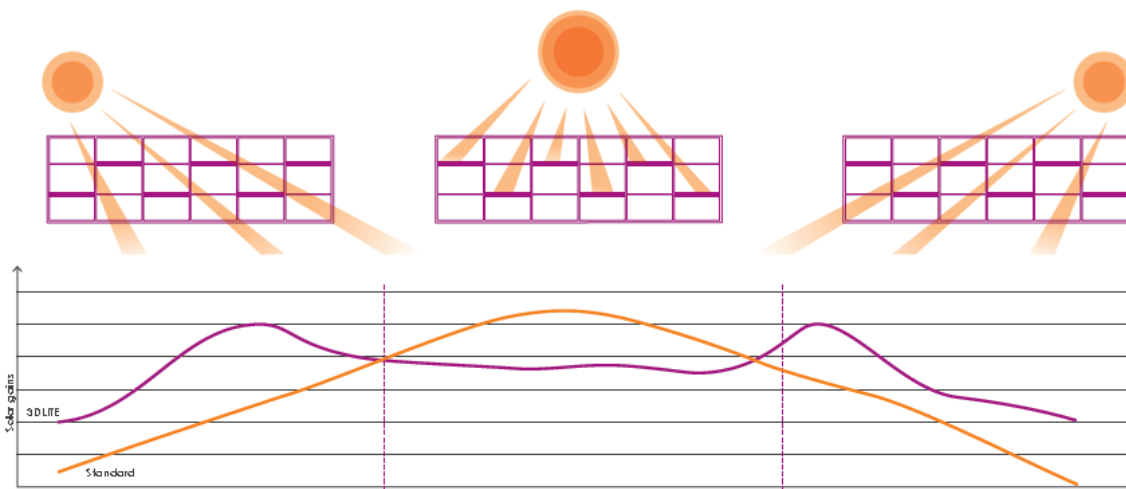
DANPALON –polycarbonat systems

3D LITE

MORNING

NOON

AFTERNOON



3D lite – harmonisation of solar gain throughout the day

Benefits of 3DLite : Astounding 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 Chalk Opaline Ivory



Light Orange Lime Green Chocolate Brown





Rayada - Ecoplate Shopping Mall, Danpalon 3DLITE, green - Colombia





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

- **Anticorossion 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® 35 µm	Armatec® 50 µm	Prisma®	HPS200® Ultra
1	Material		Z 275 according ČSN EN 10346:2009 (100% of Zinc)				ZA 265 according ČSN EN 10346: 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 in 15°C 3T in 10°C	1T in 15°C 3T in 10°C	0,5T	0T in 16°C 2T 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)





Anti-corrosion protection



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



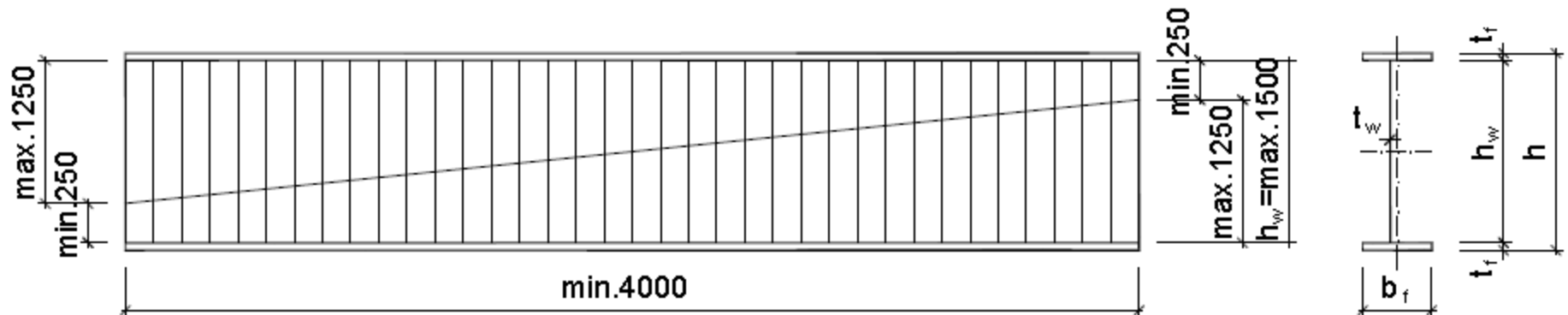
The corrugated web profile was developed as an economical substitute for welded or high I-shaped rolled profiles.





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