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20
GODINA

L I M O N T



METALI BF



FIKO
COMMERC SF

*20 godina
povjerenja i kvalitete*



L I M O N T

Proizvodnja i ugradnja krovnih fasadnih sistema
Production and building Roof and Wall systems





Našim klijentima nudimo najbolja rješenja i najbolju uslugu, upravo zbog toga što želimo da budemo dio našeg poslovanja i u budućem periodu, jer samo zadovoljan klijent se uvijek vraća na vaša vrata, bilo kao poslovni partner, ili kao uspješna referenca klijenata.

To our clients, we offer the best solutions and the best service, because we want to be a part of our business in the future as well, because only satisfied client always comes back, either as a business partner, or as successful reference of client.



Naša zanatska limarija počela je sa radom prije gotovo 30 godina. U početku se isključivo bavila proizvodnjom i ugradnjom limarskih elemenata za potrebe privatnih stambenih objekata.

Godine 1996, ova radnja prerasta u preduzćeje "FIKO COMMERC SF" d.o.o. Od tada se kontinuirano razvijamo kao jedno od vodećih preduzeća u sektoru građevinske limarije, njene proizvodnje, prodaje i usluge ugradnje.

 Our trade has began to work almost 30 years ago. At its very beginning, the trade was exclusively involved in manufacture and installation of tin sheet metal elements for private properties.

In 1996, the trade turns into „FIKO COMMERC SF“ d.o.o. company, and since then, develops as one of the leading companies in the sector of tin metal sheet construction works, production, sales and installation services.



Pored stambenih objekata otvorili smo proizvodne pogone za sve vrste pokrova stambenih i poslovnih objekata. Imamo svoje partnere širom zemlje, ali nekolicinu i u EU.

Nakon što smo postali prepoznatljivo preduzeće na prostoru naše zemlje, otvorili smo građevinski obrt u republici Hrvatskoj, tačnije u Vojniću 2006 godine, da bi isti, tokom 2013 godine prerastao u preduzeće METALI BF d.o.o.

Proizvodne pogone opremili smo svim mašinama koje su potrebne za kvalitetan rad u industriji građevinske limarije.

Posjedujemo liniju za proizvodnju crijepne ploče, trapezno profilisanje lima, liniju za proizvodnju DAMPE, proizvodnju sitne građevinske limarije, a od ove godine u pripremi je linija za proizvodnju INOX dimnjaka - ventilacija, proizvodnju niskoprofilisanih limova „SINUS“ kao i TRUMPF trumatic laserpress.

Opremljeni smo i osposobljeni za izvođenje najzahtjevnijih poslova u oblasti građevinske limarije. Ugradnja GERARD pokrova kao i SIKA sistema za ravne krovove. Posjedujemo vozni park od 15 namjenskih i specijalizovanih vozila.

 In addition to residential buildings we have opened production facilities for all types of roofing systems for residential and commercial properties. We have many partners accros the country, and a few in EU.

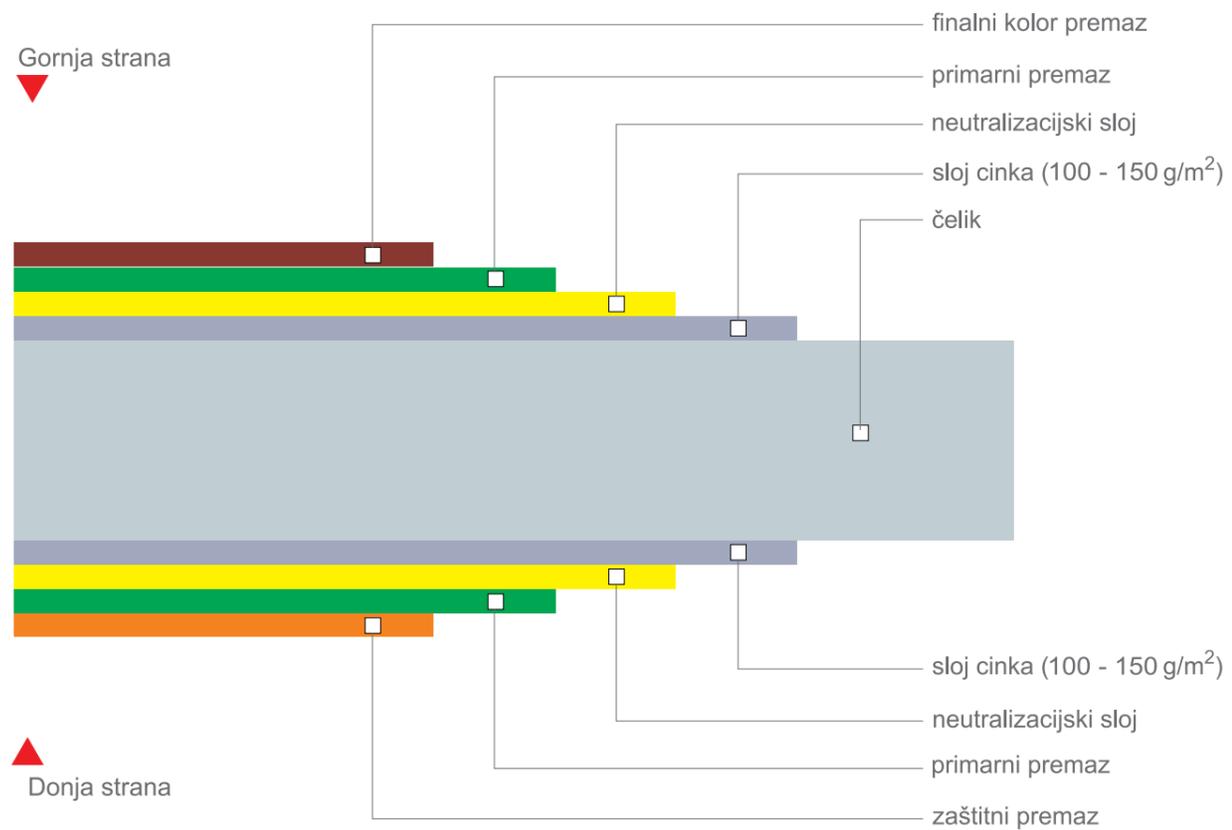
After we became a recognizable company in the territory of our country, in 2006 we estalished a trade in Vojnić, Croatia, which has in 2013 grown into „METALI BF“d.o.o. company.

Production facilities have been equipped with all necessary machines and tools that are required for quality work in the industry of constructon metalware.

The productions is divided into separate lines: production of roof tile panels, trapezoidal sheet metal profiling , production line of DAMPA and production of small metal sheet parts. Since this year there will be another production line of stainless steel chimnies – ventilation, production of low profiled metal sheets „Sinus“ and TRUMPF traumatic Laserpress, that is currently in perparation phase.

The company is also equipped and trained to perform the most demanding tasks in the area of building industry and installation of GERARD roof systems and SIKA systems for flat roofs, while its transportation infrastructure implies a fleet of 15 dedicated and specialized vehicles.





SI.1: Prikaz višeslojne strukture čeličnog lima

Ravni limovi izrađeni su od visokokvalitetnog čelika i imaju jedinstvenu višeslojnu strukturu veoma otpornu na mehanička oštećenja i atmosferske uticaje.

Zaštićeni su poliester premazom. Mekoća lima pruža mogućnost lake obrade i čvrstinu falcanih spojeva. Limovi su pogodni za pokrivanje krovova, oblaganje zidova i izradu različitih ukrasnih elemenata.

Raspolažemo limovima debljine od 0,5 mm do 1,5 mm. Standardno, raspolažemo limovima u sljedećim bojama: bijela, svijetlosiva - silver, tamnosiva, svijetlozelena, tamnozeleno, oker, boja cigle, crvena, svijetloplava, plava, smeđa i crna.

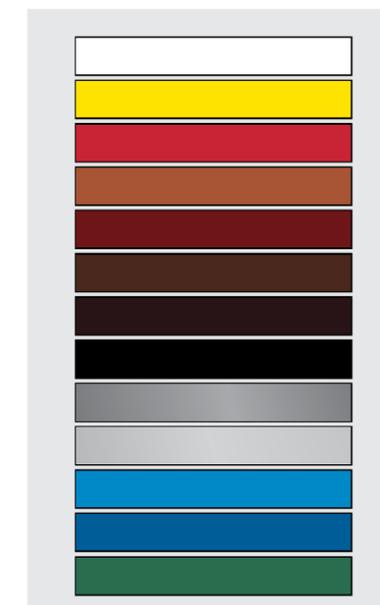
Po zahtjevu kupca, lim bojimo bojama iz RAL palete. Pored čeličnih limova standardno u proizvodnji imamo bakreni, aluminijski i cinkotit lim, a sve ostale limove radimo na zahtjev kupca.

 Flat tin metal sheets (flat roofs) are made of high quality steel with a unique multi-layered structure that is protected by polyester coating.

This makes them weatherproof and resistant to mechanical changes. The tin softness makes it easy cuttable and shapable, and provides the firmness of slit joints, so these tin sheets are suitable for roofing, wall cladding and fabricating different decorative elements.

Our offer includes different thickness profiles from 0,5mm to 1,5mm with standard colors: white, light gray - silver, dark gray, light green, dark green, ocher, brick red, red, light blue, blue, brown and black, as well as other colors from RAL palette on customer's request.

In addition to steel plates, it also includes standard production of copper, aluminium and zinc-titanium sheets, and all other customer requested plates.





CRIJEPNA PLOČA
FC
ROOF TILE
PANELS



Krov crkve u Drvaru
The roof on the church in Drvar



Stambeno poslovni objekt "Imobiliare" Beganović" u Cazinu
Residential and business object "Imobiliare Beganovic" in Cazin



Krov na porodičnoj kući kod Dubice
The roof on the family house near Dubica

*Napravljena od kvalitetnog pocinčanog
i plastificiranog lima presvučenog
sintetičkim presvlakama i zaštićenog
poliester bojom,
jednostavno napravljena da traje i traje.*



Ovalni krov na zgradi u Sarajevu
Oval roof on the building in Sarajevo



Stambeni objekat u Cazinu
Residential building in Cazin



Stambeni objekat u Cazinu
Residential building in Cazin



Poslovni objekat u Velikoj Kladuši
Business building in Velika Kladusa



Porodična kuća, Gospić
Family house in Gospić, Croatia



Porodična kuća u selu Krivaja, Cazin
Family house in Krivaja village, Cazin



Ambulanta, Vojnić
Infirmary, Vojnić, Croatia



Apartmani, Novalja
Apartments, Novalja, Croatia



Krov na poslovno stambenom objektu kod Velike Kladuše
The roof of the commercial and residential building in Velika Kladusa



Detalj pokrova crijepne ploče FC Biber na stambenom objektu u Banja Luci
Detail of the cover tile panels - FC Biber on residential object in Banja Luka

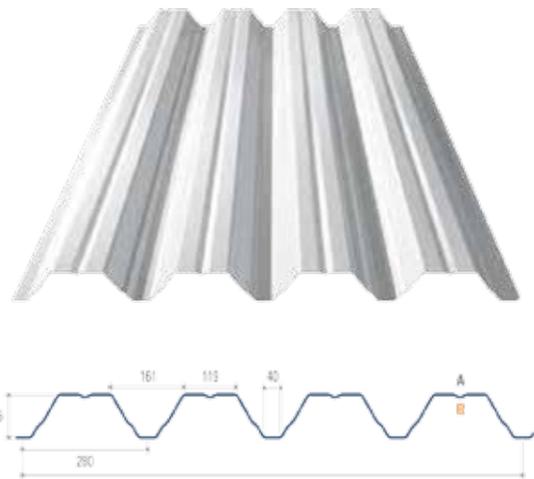


Detalj pokrova crijepne ploče FC Biber
Detail of the cover tile panels - FC Biber

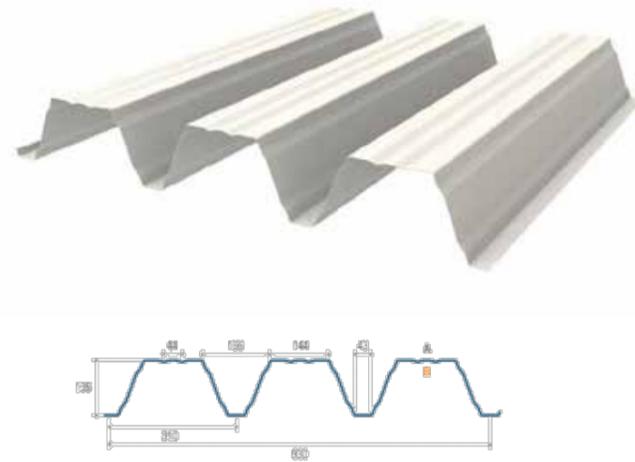


FIKO-COMMERC_SF

**TRAPEZNO PROFILISANI
LIMOV
TRAPEZOIDAL PROFILED
METAL SHEET**



VISOKOVALNI TRAPEZNI LIM TR 85



VISOKOVALNI TRAPEZNI LIM TR 135

RASPON	DEBLJINA LIMA	SISTEM NOSAČA							
		△ — △		△ — △ — △		△ — △ — △ — △		△ — △ — △ — △ — △	
L (m')	t (mm)	A	B	A	B	A	B	A	B
1,00	0,60	6,09	13,26	6,09	18,76	6,53	17,44	6,32	17,80
1,25	0,60	3,90	6,79	3,90	9,61	4,18	8,93	4,05	9,11
1,50	0,60	2,71	3,93	2,71	5,56	2,90	5,17	2,81	5,27
1,75	0,60	1,99	2,47	1,99	3,50	2,13	3,25	2,06	3,32
2,00	0,60	1,52	1,66	1,52	2,35	1,63	2,18	1,58	2,22
2,25	0,60	1,20	1,16	1,20	1,65	1,29	1,53	1,25	1,56
2,50	0,60	0,98	0,85	0,98	1,20	1,04	1,12	1,01	1,14
2,75	0,60	0,81	0,64	0,81	0,90	0,86	0,84	0,84	0,86
3,00	0,60	0,68	0,49	0,68	0,69	0,73	0,65	0,70	0,66
A – prema naponu					B – prema progibu				



ISPITIVANJE UGLEDA NA SAVIJANJE S ODREĐIVANJEM DOPUŠTENIH OPTEREĆENJA ZA $\sigma_{dop}=140 \text{ N/mm}^2$ i $w_{dop}=l/200 \text{ mm}$

REZULTATI ISPITIVANJA PRIKAZANI SU U SLJEDEĆIM TABLICAMA.

RASPON	DEBLJINA LIMA	SISTEM NOSAČA							
		△ — △		△ — △ — △		△ — △ — △ — △		△ — △ — △ — △ — △	
L (m')	t (mm)	A	B	A	B	A	B	A	B
1,00	0,50	5,08	11,04	5,08	15,62	5,44	14,52	5,27	14,82
1,25	0,50	3,25	5,65	3,25	8,00	3,48	7,43	3,37	7,59
1,50	0,50	2,26	3,27	2,26	4,63	2,42	4,30	2,34	4,39
1,75	0,50	1,66	2,06	1,66	2,92	1,78	2,71	1,72	2,76
2,00	0,50	1,27	1,38	1,27	1,95	1,36	1,81	1,32	1,85
2,25	0,50	1,00	0,97	1,00	1,37	1,08	1,27	1,04	1,30
2,50	0,50	0,81	0,71	0,81	1,00	0,87	0,93	0,84	0,95
2,75	0,50	0,67	0,53	0,67	0,75	0,72	0,70	0,70	0,71
3,00	0,50	0,56	0,41	0,56	0,58	0,60	0,54	0,59	0,55
A – prema naponu					B – prema progibu				

RASPON	DEBLJINA LIMA	SISTEM NOSAČA							
		△ — △		△ — △ — △		△ — △ — △ — △		△ — △ — △ — △ — △	
L (m')	t (mm)	A	B	A	B	A	B	A	B
1,00	0,70	7,09	15,46	7,09	21,87	7,60	20,33	7,36	20,75
1,25	0,70	4,54	7,91	4,54	11,20	4,86	10,41	4,71	10,62
1,50	0,70	3,15	4,58	3,15	6,48	3,38	6,02	3,27	6,15
1,75	0,70	2,32	2,88	2,32	4,08	2,48	3,79	2,40	3,87
2,00	0,70	1,77	1,93	1,77	2,73	1,90	2,54	1,84	2,59
2,25	0,70	1,40	1,36	1,40	1,92	1,50	1,78	1,45	1,82
2,50	0,70	1,13	0,99	1,13	1,40	1,22	1,30	1,18	1,33
2,75	0,70	0,94	0,74	0,94	1,05	1,00	0,98	0,97	1,00
3,00	0,70	0,79	0,57	0,79	0,81	0,84	0,75	0,82	0,77
A – prema naponu					B – prema progibu				

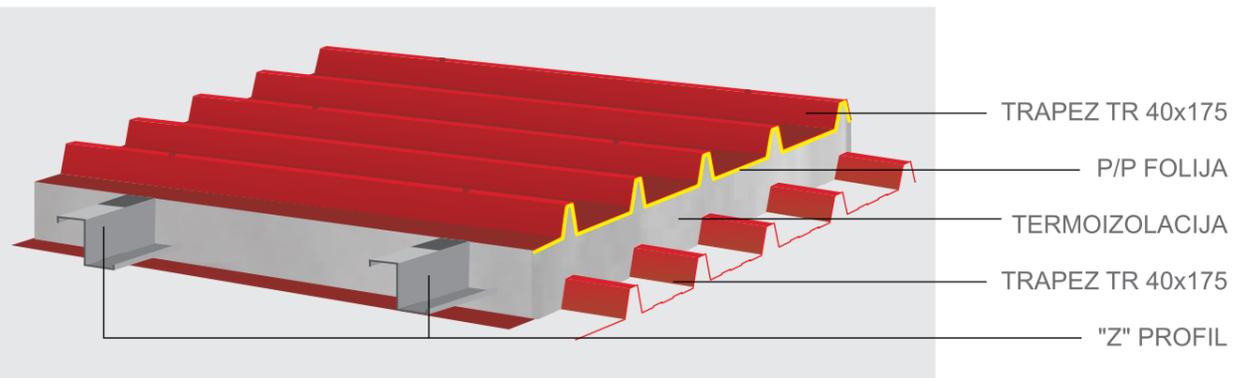
RASPON	DEBLJINA LIMA	SISTEM NOSAČA							
		△ — △		△ — △ — △		△ — △ — △ — △		△ — △ — △ — △ — △	
L (m')	t (mm)	A	B	A	B	A	B	A	B
1,00	0,80	8,12	17,71	8,12	25,07	8,70	23,29	8,42	27,78
1,25	0,80	5,20	9,07	5,20	12,83	5,57	11,93	5,39	12,17
1,50	0,80	3,61	5,25	3,61	7,43	3,87	6,90	3,74	7,04
1,75	0,80	2,65	3,30	2,65	4,68	2,84	4,35	2,75	4,44
2,00	0,80	2,03	2,21	2,03	3,13	2,17	2,91	2,11	2,97
2,25	0,80	1,60	1,55	1,60	2,20	1,72	2,05	1,66	2,09
2,50	0,80	1,30	1,13	1,30	1,60	1,39	1,49	1,35	1,52
2,75	0,80	1,07	0,85	1,07	1,21	1,15	1,12	1,11	1,14
3,00	0,80	0,90	0,66	0,90	0,93	0,97	0,86	0,94	0,88
A – prema naponu					B – prema progibu				



Raspon letvanja određuje se u zavisnosti od debljine lima (od 0,50 do 0,80 mm) i kreće se od 30 cm do 300 cm.



Trapezni lim kao završni strop - Tropic Bosanski Brod
Trapezoidal sheet metal as a final ceiling - Tropic Bosanski Brod



Trapezno profilisani lim TR 40 x 175 izrađuje se od kvalitetnog pocinčanog plastificiranog lima debljine 0,50 - 1,00 mm presvučenog sintetičkim presvlakama i zaštićenog poliester bojom. Pored pocinčanih limova u primjeni su i aluminijski limovi debljine 0,70 - 1,50 mm.

Jedna od najbitnijih karakteristika ovog profilisanog lima je da se određenom debljinom mogu savladati veliki rasponi kao i smanjiti nagib krovne plohe.

Pored ove vrste trapeznog lima kod nas možete dobiti i nikovalne limove za oblaganje fasada kao i visokovalne limove. Trapezno profilisani lim pored primjene kao pokrov, odličan je i za oblaganje fasade industrijskih kao i poslovnih objekata.

U našem pogonu se proizvodi prema željenim dužinama / zavisno od transporta / u standardnim bojama prema RAL paleti. Radimo ga sa kondenznim filcom ili bez njega.

 Trapezoidal profiled metal sheets TR 40 x 175 are made of 0,50mm – 1,00mm thick, quality galvanized and plastified tin with synthetic coating and polyester dye protection.

Alongside galvanized tin sheets, 0,70mm – 1,50mm thick aluminium tin sheets can also be implemented.

One of the most important characteristics of trapezoidal profiled metal sheet is, due to its thickness ability to overwhelm huge ranges, and minimize roof surface elevation. In addition to these, we offer nickel tin sheets for facade overlappings, as well as highwave tin sheets. Besides being used for roofing, trapezoidal profiled metal sheets are excellent for industrial and business objects cladding.

These tin sheets are fabricated in our facilities, in lengths (transport demanding) and colors from RAL palette desired by customers, with or without anti-condensation felt.

Poslovni objekat "Tunjice" u Banjaluci
Business center "Tunjice" in Banjaluka





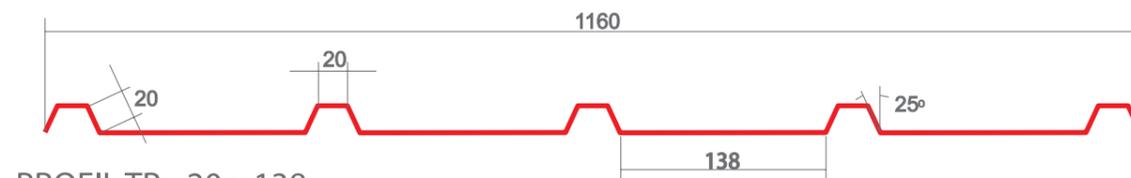
“Graditelj” Klačnice, Laktaši



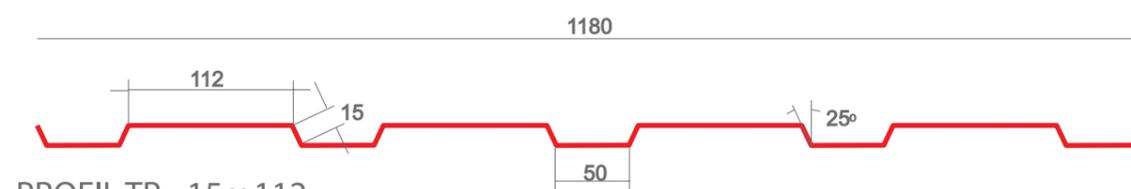
Centar “Frotuna” u Banjaluci
Center “Fortuna” in Banjaluka



Fasada poslovne zgrade u Zagrebu izrađena od trapeznog lima
The facade of commercial building in Zagreb made of trapezoidal metal sheet



PROFIL TR - 20 x 138



PROFIL TR - 15 x 112



Detalj protukondenznog filca na trapeznom limu TR 40



*Idealno rješenje za
velike raspone kao i
smanjenje nagiba
krovne plohe*

SINUSOIDA
FC
SINUSOIDAL SHEET
SINUSOIDA FC





Autosalon "Osmanagić" u Podgorici
Car center "Osmanagic" in Podgorica



Trgovački centar "Fis" u Banja Luci
Shopping center "Fis" in Banja Luka

Niskovalni valoviti lim SINUSOIDA FC izrađuje se od kvalitetnog pocinčanog i plastificiranog lima debljine 0,50 - 0,70 mm presvučenog sintetičkim presvlakama i zaštićenog poliester bojom.

Pored pocinčanih limova u primjeni su i aluminijski limovi debljine 0,70 - 1,00 mm. Ovakav profilisan lim idealan je za oblaganje fasada velikih industrijskih objekata, poslovnih objekata, a kombinacijom sa dva sloja, termoizolacijom te ostalim potrebnim elementima dobije se sendvič panel.

U našem pogonu se proizvodi prema željenim dužinama / zavisno od transporta / u standardnim bojama prema RAL paleti.

 Lowwave sinusoidal sheet is made of 0,50mm – 0,70mm thick, quality galvanized and plastified tin with synthetic coating and polyester dye protection. In addition to galvanized tin sheets, 0,70mm – 1,00mm thick aluminium tin sheets can also be provided.

This profile is ideal for cladding large industrial facilities and office buildings, whereas combination of two layers, thermal isolation and other necessary elements, can provide a sandwich panel.

These sheets are produced in our facilities, in lengths (transport demanding) and colors from RAL palette demanded by customers.



Trgovački centar "Tempo" u Banja Luci
Shopping center "Tempo" in Banjaluka





Hard discount "Laković" u Baru
Hard discount "Laković" in Bar, Montenegro

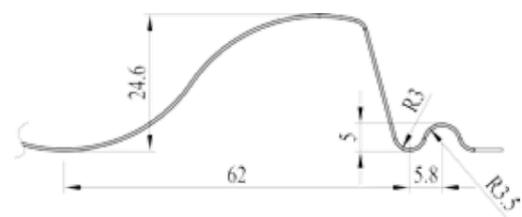
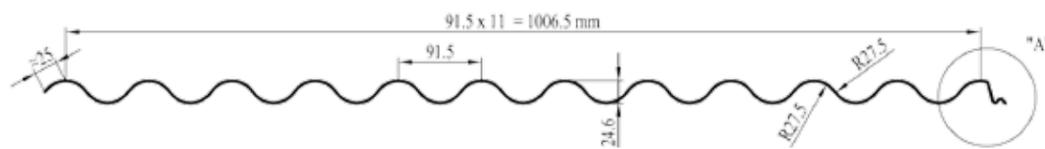


Centar "Ribnica Commerce" u Podgorici
Center "Ribnica Commerce" in Podgorica

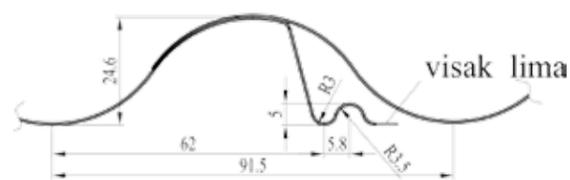


SINUS FC 25 x 91.5

Broj rebara: 12
Pokrivna korisna širina 1006.5 mm
Širina ulazne trake 1250 mm

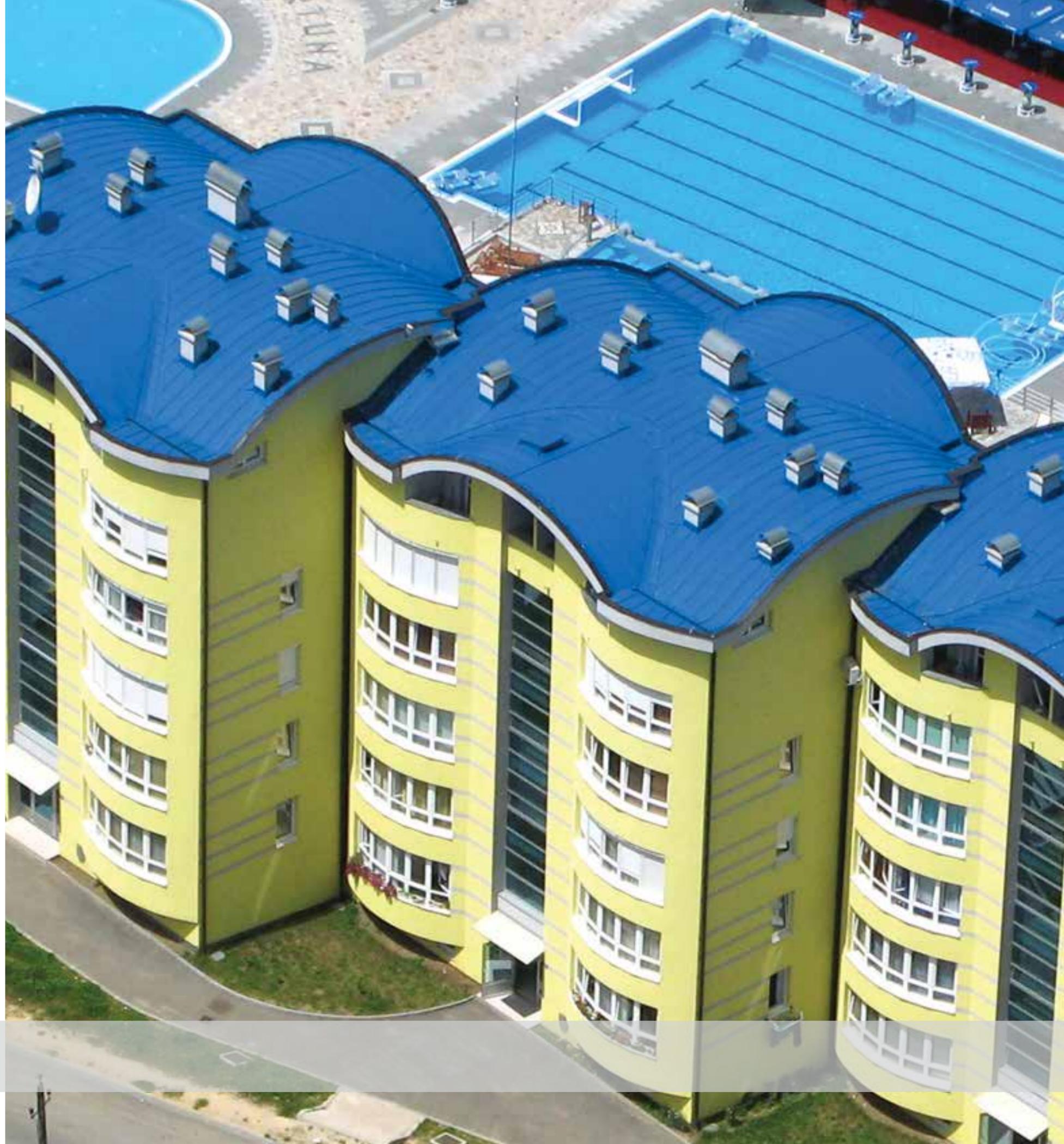


PREKLOP



Kino "Una" u Bijaću - fasada od valovitog perforiranog lima
Cinema "Una" in Bihac - facade of corrugated perforated metal sheet

**DUPLO
FALCANI LIM**
DOUBLE INTERLOCK
TIN SHEET



Duplofalcani pokrov izrađuje se od kvalitetnog pocinčanog plastificiranog lima debljine 0,50 mm presvučenog sintetičkim presvlakama i zaštićenog poliester bojom, mekše strukture koji je namijenjen za ovu vrstu pokrova.

Pored pocinčanih limova u primjeni su i aluminijski limovi debljine 0,70 mm, bakreni limovi, inox i cinkotit također namjenjeni za izradu ovakve vrste pokrova.

Ova vrsta pokrova koristi se za krovove sa blagim nagibom, lučne i kupolaste krovove.

 Double interlock tin sheets are made of 0,50mm thick, quality galvanized and plastified tin with synthetic coating, polyester dye protection and softer texture.

Alongside galvanized tin sheets, our company offers 0,70mm thick aluminium sheets, copper sheets, stainless steel sheets and zinc-titanium sheets that are applicable in this type of roofing, used mostly for slightly sloped roofs, arched roofs and domed roofs.



Pokriivanje krova na "Binis" betonu u Banjaluci
Roofing "Binis" Banjaluka

Krov medrese u Cazin
The roof of madrasah in Cazin



Krov zgrade "Pink BH" u Sarajevu
The roof of "Pink BH" building in Sarajevo



Prikaz spoja dva lima kod duplog falcanj



Krovovi na džamijama rađeni od bakarnog i rostrajnog lima
Roofs with domes on mosques made of copper and rostrajnog lima



Detalj krova zgrade u Velikoj Kladuši
Detail of the roof of the building in Velika Kladusa

Medresa "Džemaludin Čaušević" u Cazinu
Madrasah "Džemaludin Causevic" in Cazin

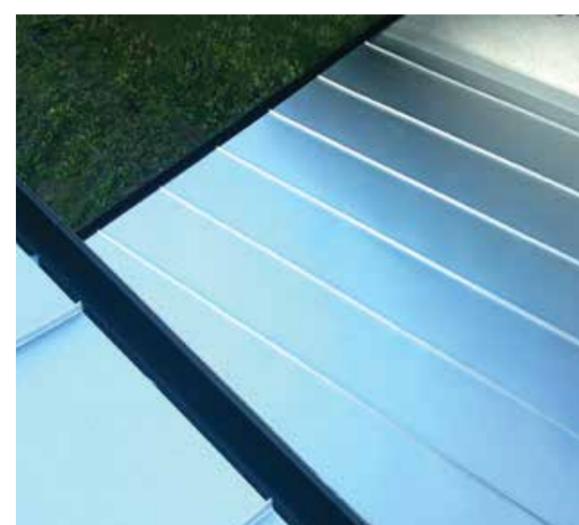


Tržni centar "Čavkunović" Bihac - krov pokriven duplo falcanim limom
Shopping center "Cavkunovic" Bihac - roof covered by double folded metal sheet



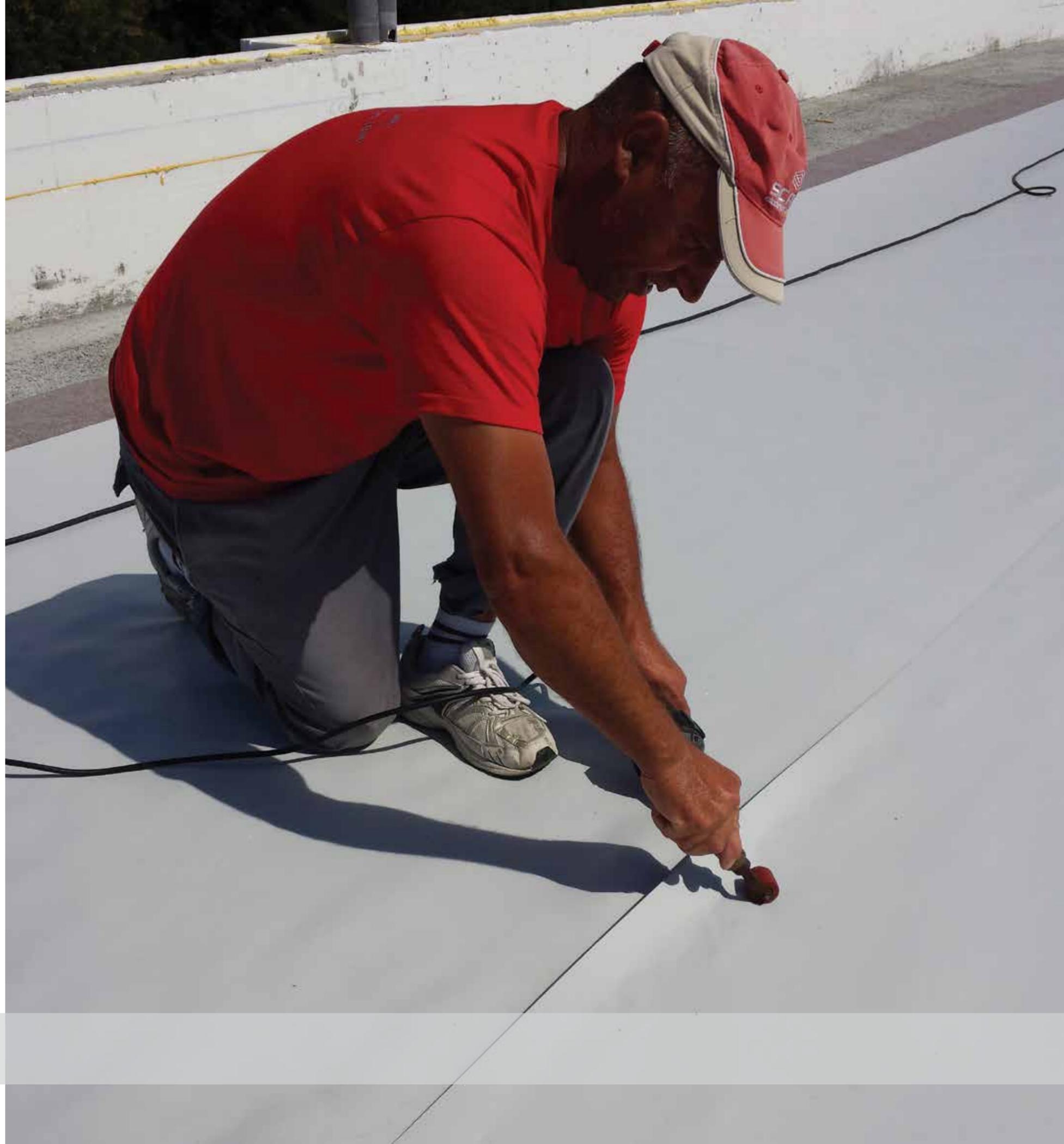
Muzički paviljon u Banjaluci - fasada od bakarnog lima rađena metodom duplog falcanja
Music pavilion in Banja Luka - the facade of copper sheet made by double folded method

BAU centar "Čavkunović" u Bihaću
BAU center "Cavkunovic" in Bihac



Stambeno poslovni objekat u Bihaću
Business and residential complex in Bihac

RAVNI KROVOVI
SIKA
FLAT ROOFS



Objekat "Izbor trgovine" na Kamenici
Business complex "Izbor trgovine" in Kamenica



Benzinska pumpa "Adna commerc", Bihać
Gas Station "Adna Commerce", Bihać



Benzinska pumpa "Euro Jet" Cazin
Gas station "Euro Jet" in Cazin

Pored profilisanih limova u našoj ponudi imamo materijale za ravne krovove, tj. krovove sa jako malim nagibom. Kod nas u primjeni je SIKA sistem krovne izolacije.

Standardno u primjeni je Sikoplan 15G krovna hidroizolacijska membrana za izložene ravne krovove, neprohodne krovove, a u ponudi je i krovna membrana za porohodne - zelene krovove.

Sikoplan 15G debljine 1,5 mm je višeslojna sintetička vodootporna krovna membrana bazirana na polivinil kloridu (PVC) koja se slobodno polaže i mehanički pričvršćuje, a spojevi se zavaruju električnom opremom za vruće varenje.

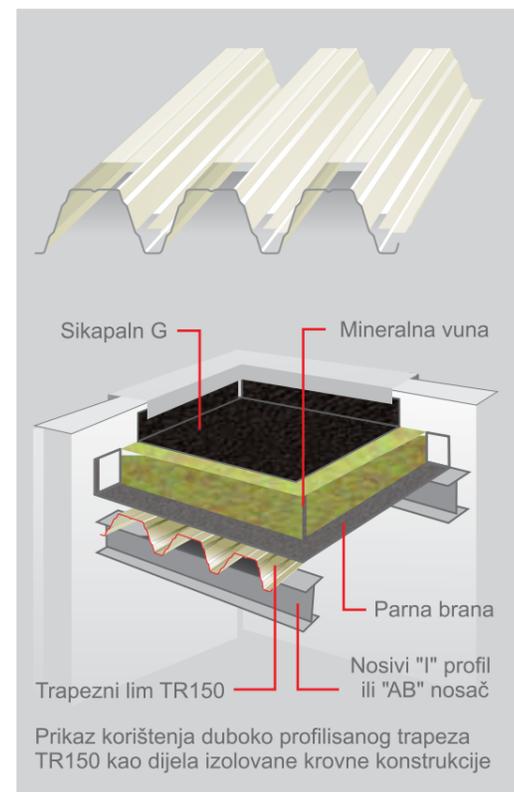
Otporna je na UV zračenje, ima visoku otpornost na starenje, otpornost na mehaničke utjecaje, visoka čvrstoću istezanja te visoku paropropusnost.

 There are materials for flat roofs and roofs with a very slight slope, besides profiled sheets, that are part of our plentiful offer.

Our company applies SIKA system of roof isolation. That means implementation of 15G Sikoplan hydroisolation membrane for exposed flat, and impassable roofs; while there is a special membrane for passable – green roofs.

Sikoplan 15G is 1,5mm thick, multilayer synthetic waterproof roof membrane based on polyvinyl chloride (PVC), which is easily set and mechanically fastened, whereas connections are weld with electric equipment for hot sealing.

It is resistant to UV radiation, obsolescence and mechanical stress; and has high tensile strength as well as high vapor permeability

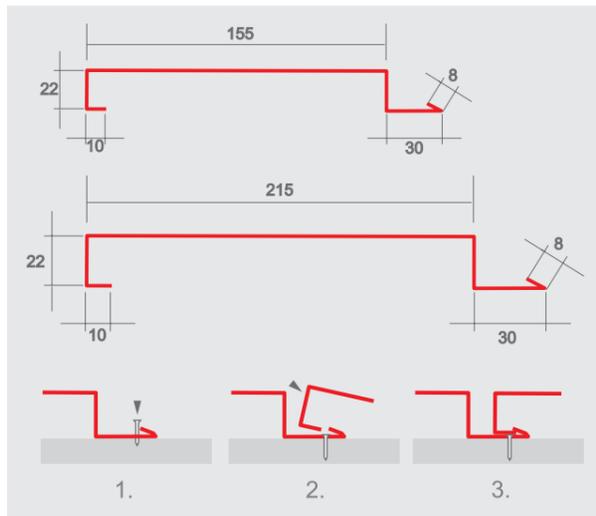


Objekat J.u.A. Frischeis d.o.o. Sarajevo - krov pokriven sa Sikaplan 15 G
Object J.u.A. Frischeis d.o.o. Sarajevo - roof covered by Sikaplan 15 G



DAMPA
KROVOVI
DAMPA ROOFS





DAMPA je profilisani limeni profil namjenjen za izradu stropova kako na javnim objektima tako i za oblogu streha na privatnim kućama.

Standardno se izrađuje od čeličnog pocinčanog plastificiranog lima debljine 0,50 mm r.š. 25 cm (15,50cm).

Pored standardnog profila i materijala, dampu možemo izraditi i od aluminijskih limova i inoxa, a širine možemo prilagoditi po želji kupca.

Zavisno od vrste materijala i r.š. dampe mjenja se i debljina limova.

 DAMPA roof is tin sheet profile intended to be used in manufacturing of ceilings for public objects and overlaying of private homes' canopies.

These roofs are made of 0,50mm thick, 25,00cm or 15,50cm wide galvanized and plastified standard steel sheets.

In addition to standard profiles and materials, DAMPA roofs can be manufactured of aluminium or stainless steel sheets, whose width is adjusted as required by customer.

The thickness of sheets alters according to material type and working width.



Detalj strehe na salonu "Lexus", Sarajevo
Detail of eaves on car center "Lexus", Sarajevo



Streha na kući, Sarajevo
Eaves on the family house, Sarajevo



Detalj balkonskog stropa na zgradi, Cazin
Detail of the balcony ceiling on the building, Cazin





Streha na kući, Gata
Eaves on the family house, Gata village



"Begex" Hadžići, Sarajevo

Stropovi izrađeni DAMPE nalaze sve veću primjenu u unutrašnjem i vanjskom uređenju prostora. Izrađujemo viseće stropove, stropove na pumpama i ostalim poslovnim objektima, kao i podašive na strehama.

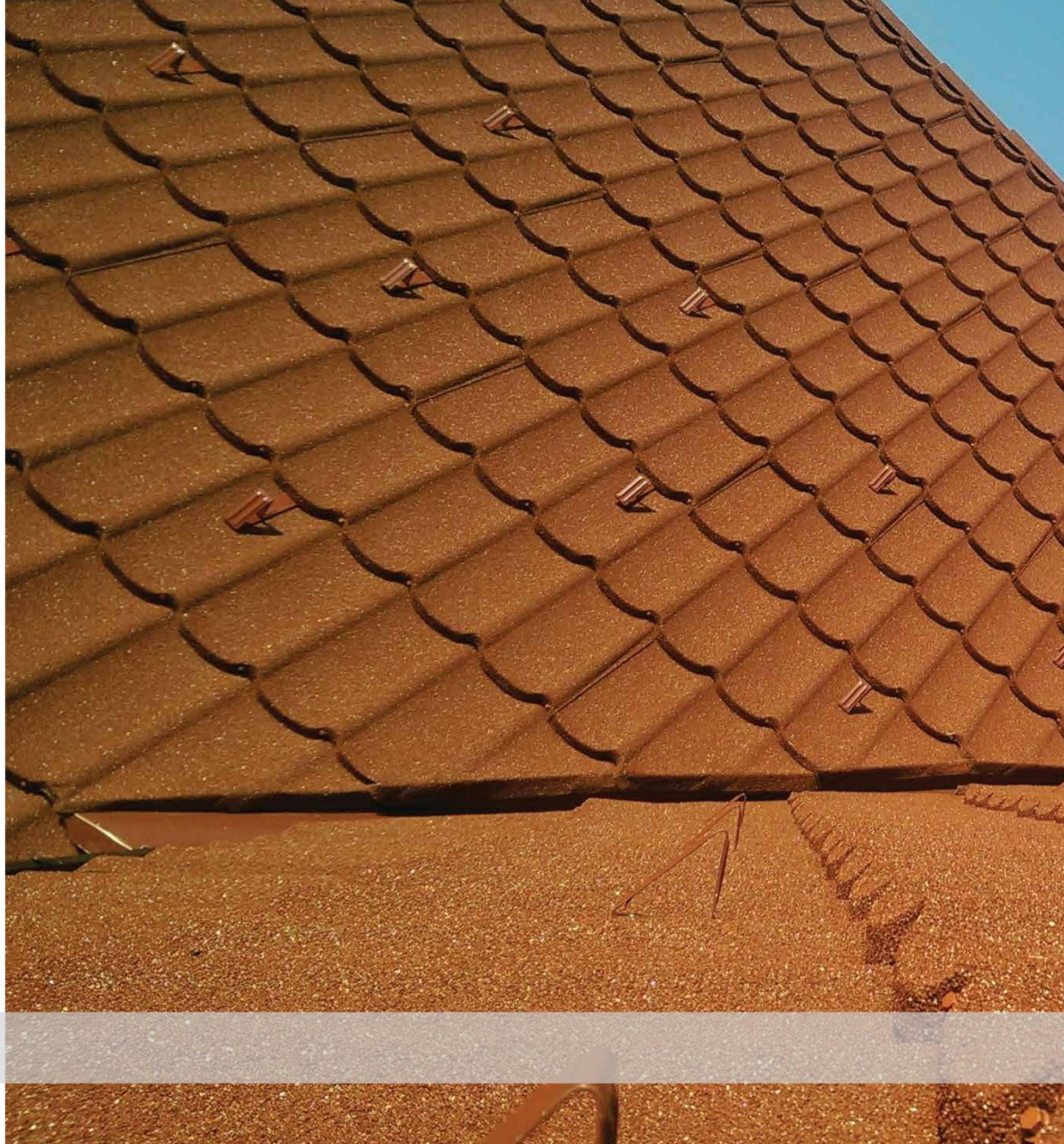
Stropovi su neosjetljivi na vremenske uticaje, lako se održavaju i lijepi su.

 The implementation of DAMPA ceilings in inner and external environments is very popular and increasing.

Especially as hanging ceilings, ceilings at gas stations, business building ceilings and canopy edges. These ceilings are very attractive, weatherproof and easy to maintain.

Nadstrešnica tržnog centra "Fis" Brčko
Roof detail on the shopping center "Fis" Brčko

GERARD
KROVNE PLOČE
ROOF PANELS



GERARD krovne ploče se izrađuju od cink-aluminijskog lima ZINC-ALUME, koji je zaštićen akrilnom smolom, osnovom na kojoj su nanosene prirodne kamene čestice, i zadnjim slojem od čiste akrilne glazure.

Na donjoj strani su nanosena dva sloja prozirne akrilne smole. Krovne ploče 6 do 7 puta su lakše (6,9kg/m²) od prosječnih ploča od opeke ili betona. Krov Gerard odlično podnosi snijeg i led jer ne upija vodu i sa lakoćom nosi velike količine snijega.

Ciklusi zamrzavanja i odmrzavanja ne mogu ga oštetiti, odignuti ili rasklimati upravo zbog vodoravnog pokrivnog sistema učvršćivanja ploča.

Zgrade rađene prirodnim materijalom - drvetom zahtjevali su i krov koji odgovara tradicionalnom izgledu starih objekata.

Kao pokrivni materijal koristili smo Gerard pokrov profilisan kao lička šindra i to je objektima dalo posebno lijep izgled.

Materijal je veoma lagan, otporan i trajan, te zbog hrapave površine ne zahtjeva korištenje snjegobrana.

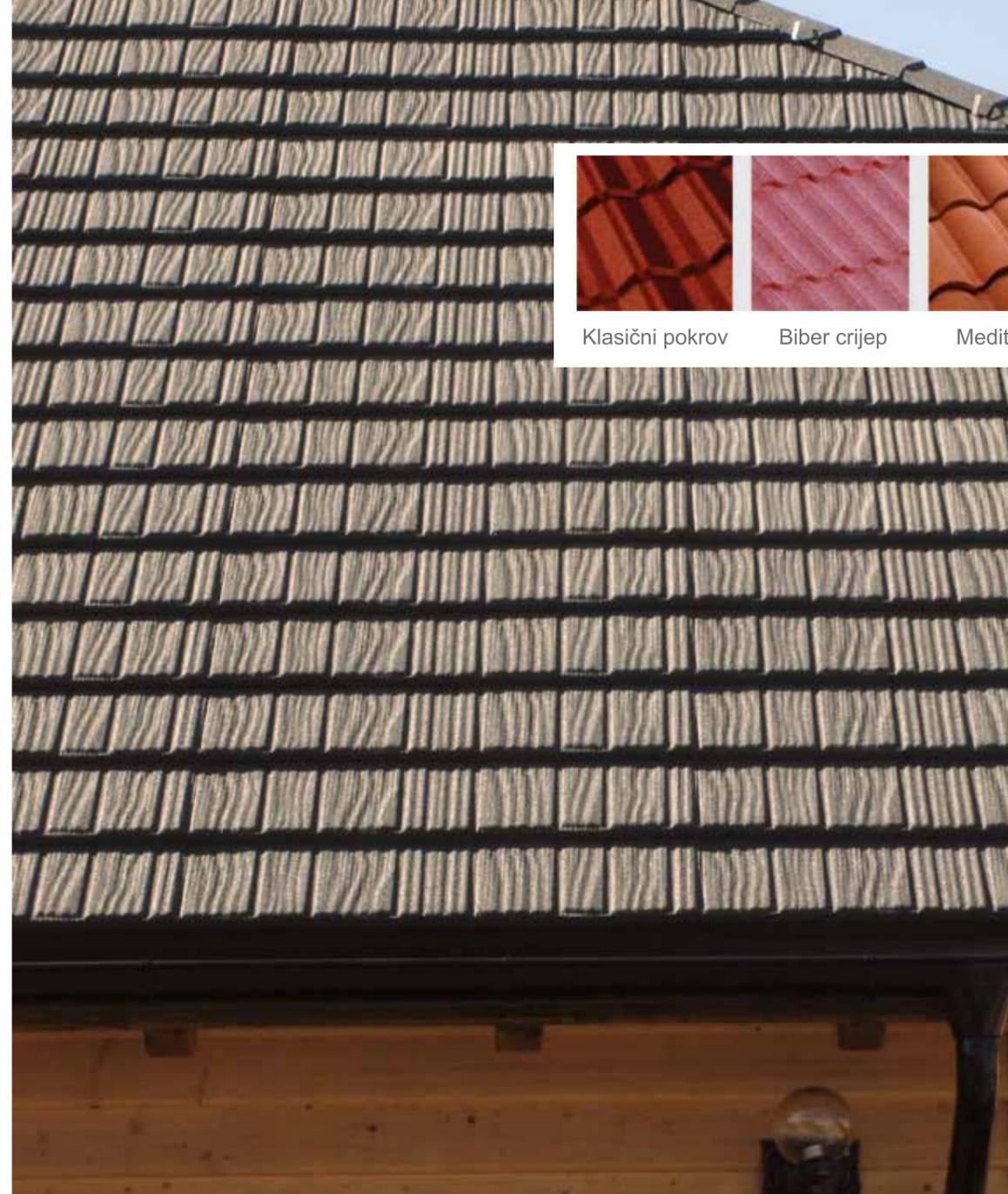
 Gerrard roof panels are made of zinc-aluminium tin ZINC-ALUME which is protected by a acrylic resin. This acrylic protection is consisted of base with natural stone particles and backing layer of pure acrylic enamel, with two layers of transparent acrylic on the lower side.

Gerard roof panels weigh only 6,9 kg/m², which makes them six to seven times lighter than ordinary brick or concrete panels. Due to ability not to absorb the water, this roof type can endure huge amounts of snow or ice with easiness.

At the same time, it can not be damaged, disconnected or staggered by freezing and unfreezing cycles, due to its horizontal covering system of panel fixing.

Objects built of natural materials such as wood, demanded roofs that matched traditional features of old buildings. As a cover material we used GERARD roof, profiled as LIČKA ŠINDRA (Lika's shingle), which gave especially nice look to objects.

This material is weightless, enduring and persistent; and due to its surface roughness, objects with this roof don't require snow guards.



Klasični pokrov Biber crijep Mediteran Kanadska šindra Lička šindra Ambasador šindra

Motel i restoran "Macola" Gospić na auto cesti Zagreb - Split
Motel and restaurant "Macola" in Gospić near by Zagreb - Split highway





Stambeni objekat u Otočcu
Residential object in Otočac



Stambeni objekat u Novom Travniku
Residential object in Novi Travnik



Caritas Zagreb
Caritas Zagreb



Osnovni materijal za PREFA pokrove je aluminijski lim proizveden prema leguri EN 1396.

Garancija od 40 godina na aluminij kao osnovni materijal PREFA krovnih ploča, PREFA krovne šindre i PREFA rombova s prijevom obuhvaća pucanje, hrđanje i smrzavanje uz prirodne okolne uvjete i stručno polaganje od strane građevinskog limara.

PREFALZ je zbog svoje podatnosti lakši za oblikovanje od većine uporedivih materijala za prevoje. Projektantu on nudi raznolike kreativne mogućnosti primjene u području krova i fasade.

PREFA krovne ploče sa samo 2,3kg/m² ubrajaju se među najlakše, ali i najstabilnije krovne materijale uopće. Sa samo četiri krovne ploče može se prekriti čitav kvadratni metar krovne površine.

 Basic matter for PREFA coverings is aluminium tin produced of EN 1396 alloy.

This aluminium being a base of PREFA roof panels, PREFA shingles and PREFA folded rhombuses has a 40 years warranty of cracking, rusting or freezing, within normal environmental conditions and expert imposition by tinman professional.

Owing to its suppleness, PREFALZ is easier to shape than most of the other comparable fold materials. It also offers designer a plenty creative possibilities for applying in roofs and facades.

With weight of only 2,3kg/m², PREFA roof panels are generally among lightest and the most stable roofing materials. One square meter of roof surface can be covered with only four panels.

PREFA KROVNE PLOČE ROOF PANELS



**SENDVIČ
PANELI
SANDWICH PANELS**



Sendvič paneli izrađuju se iz dva sloja čeličnog pocinčanog plastificiranog lima i ispune od poliuretana PUR ili PIR, kamene vune i stiropora.

Debljina i vrsta toplotne izolacije određuje debljinu vanjskog i unutrašnjeg lima.

Kod nas u primjeni debljina vanjskih limova je 0,50 - 0,60 mm, dok su unutrašnji od 0,40 - 0,50 mm, ili po zahtjevu kupca.

Pored čeličnih pocinčano plastificiranih limova u primjeni su i aluminijski limovi i inox.

Standardna vanjska profilacija kod krovnih panela je trapezna, kod fasadnih mikroprofilacija (skriveni spoj) ili pregradni zidni panel (vidljivi spoj) dok je unutrašnja strana standardna profilacija kod ove vrste panela.

Širina panela je 1m, a dužina zavisno od transporta (do 13,60m).

 Sandwich panels are made of two layers of galvanized and plastified tin, with filling of PUR or PIR, rockwool and styrofoam.

The type and thickness of thermal isolation determine inner and outer tin sheet thickness.

In our standard products the thickness of outer sheets is 0,50mm to 0,60mm, whereas thickness of inner ones is 0,40mm to 0,50mm, or on customer's request.

Aluminum and stainless steel sheets can also be applied, besides galvanized, plastified steel sheets.

Standard exterior profile for roof panels is trapezoid; for facades microprofile (hidden junction) or barrier wall panel (visible junction); whence the inner side is always standard profiled for this type of panels.

Cover width is 1 meter, while the length depends on transport (up to 13,60m).



Prodajni centar "BF Commerc" Velika Kladuša
Trade center "BF Commerc" in Velika Kladusa.



"GAT CNC" Sanski Most
GAT CNC Sanski Most



Objekat "Dom-A" u Sarajevu
Business complex "Dom-A" in Sarajevo



Objekat "Secom d.o.o." u Visokom
Business complex "Secom" in Visoko



Objekat "Izbor trgovine" na Kamenici
Business complex "Izbor trgovine" in Kamenica



Objekat "Čavkunović Trade" u Bihaću
Business complex "Cavkunovic Trade" in Bihac





Objekat "HH Inox" u Čoralićima
Business complex "HH Inox" in Coralica



ADK Novi Travnik



Objekat "Opal centar" u Pritoci
Business complex "Opal Center" in Pritoka



Objekat "Sevmco d.o.o." u Visokom
Business complex "Semco" in Visoko

Tvornica "Begex" Hadžići
Fabrique "Begex" in Hadžići



Poslovni objekat "Braća Bajrić"
Business complex "Braća Bajrić"



Poslovni objekat "Ferotom" u Kiseljaku
Business object "Ferotom" in Kiseljak



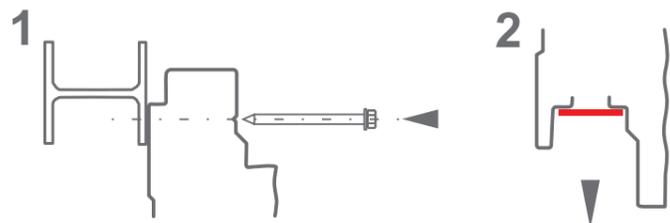
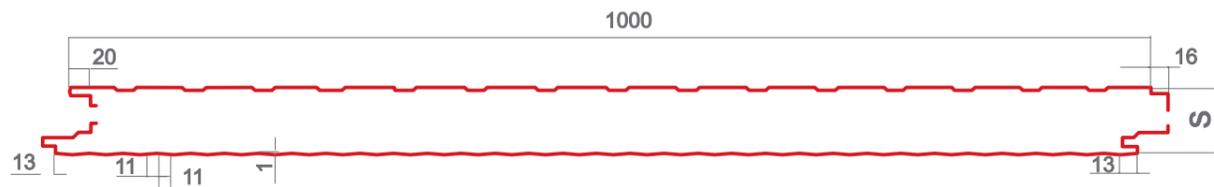
Objekat "Adna Commerc" u Cazinu
Shopping center "Adna Commerc" in Cazin



Trgovački centar "Vokel" u Bihaću
Shopping center "Vokel" in Bihać



Trgovački centar "Bingo" u Velikoj Kladuši
Shopping center "Bingo" in Velika Kladuša



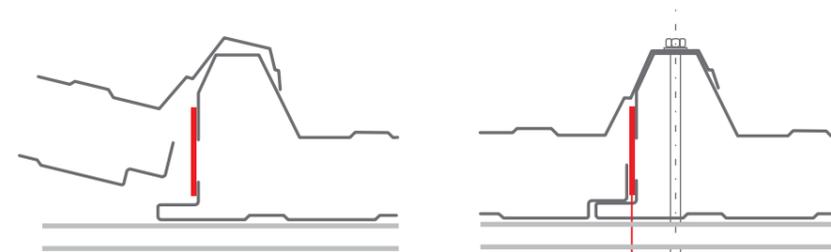
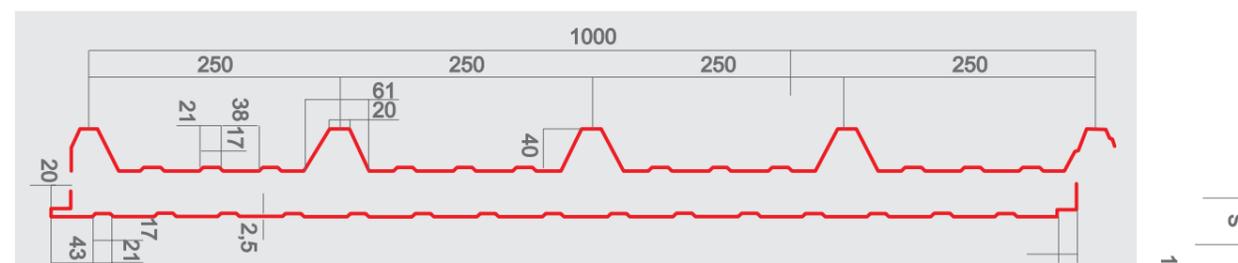
Karakteristike izolacionih panela:

- izuzetna toplotna izolacija smanjuje troškove grijanja i hlađenja prostora;
- dobra zvučna izolacija;
- samonosivost omogućuje montažu na manjem broju podkonstrukcijskih nosača;
- mala težina smanjuje troškove izrade temelja i same manipulacije i montaže;
- veoma lako održavanje površine panela;
- otpornost na sunce, vlagu i ostale atmosferske uticaje;
- nepropusnost za vodu, vlagu i prašinu, zahvaljujući sistemu brtvljenja;
- otpornost na vatru u skladu sa DIN 4102;



KARAKTERISTIKE POLIURETANA

Srednja gustoća:	ISO 845	35 - 42 kg/m ³
Sadržaj zatvorenosti stanica:	ASTM	2856 90/95 %
Termička vodljivost:	UNI 7891	0.0206 W/m ² °C
Otpornost:	ISO 844	minimalno 1,7 kg/cm ² maximalno 2,5 kg/cm ²
Stabilnost:	UNI 8069	a - 25 °C/24h 0,1% a +80 °C/24h 0,5%
Reakcija na vatru:	DIN 4102	



Dihtovanje spojeva

MAKSIMALNO OPTEREĆENJE PANELA U kg/m² ZA RAZMAK 1/200 OD L
STANDARDNA DEBLJINA LIMA 0,5 + 0,5 mm

L = Razmak oslonaca u m

S = debljina izolacionog sloja

MAKSIMALNO OPTEREĆENJE PANELA U kg/m² ZA RAZMAK < 1/200 OD L
STANDARDNA DEBLJINA LIMA 0,5 + 0,5 mm

L = Razmak oslonaca u m S = debljina izolacionog sloja

S mm	Težina kg/m ²	K kcal m ² h°C	L = Razmak letvanja									
			2,50	3,00	3,50	4,00	4,50	2,00	2,50	3,00	3,50	4,00
50	12,62	0,414	440	305	195	130	90	550	320	185	115	75
60	13,02	0,345	525	365	265	185	130	660	420	265	165	110
80	13,82	0,261	705	490	355	275	217	880	560	390	285	200
100	14,62	0,212	880	610	445	340	270	1100	700	485	360	275

S mm	Težina kg/m ²	K kcal m ² h°C	L = Razmak letvanja									
			2,50	3,00	3,50	4,00	4,50	2,00	2,50	3,00	3,50	4,00
30	12,73	0,549	240	165	120	90	70	305	190	130	95	70
35	12,93	0,471	280	195	140	110	85	355	225	155	115	85
40	13,13	0,419	315	220	160	120	95	395	250	175	125	95
50	13,53	0,341	395	275	200	150	120	500	320	220	160	120
60	13,93	0,291	490	340	250	190	150	615	390	270	195	150
80	14,73	0,245	685	475	345	265	210	860	550	380	275	210
100	15,53	0,212	910	640	475	370	300	1130	730	515	390	305



Shopping centar "Robot" Prijedor
Mall "Robot" Prijedor



Hipermarket "Tropic" Brčko - izrada fasade od panela i pokrivanje krova
Mall "Tropic" Brcko - facade panels and roofing



Bosanka Blažuj
Warehouse and office space offer



Objekat J.u.A. Frischeis d.o.o. Sarajevo
Object J.u.A. Frischeis Sarajevo



Auto salon i servis "Auto Stil" u Cazin
Car service and shop "Auto Stil" in Cazin



Salon kupaonskog namještaja i keramike "Vokel" Brčko
Bathroom furniture and ceramics "Vokel" Brcko



Prodajni centar "Wisa" u Prijedoru- izrada fasada od panela i pokrivanje krova
Shopping center "Wisa" in Prijedor - facade panels and roofing



Hipermarket "Tropic" u Bjeljini - izrada fasade od panela i pokrivanje krova
Shopping center "Tropic" in Bjeljina - facade panels and roofing



Prodajni centar "Fis" Bjeljina - izrada fasade od panela
Shopping center "Fis" Bjeljina - facade panels



Benzinska pumpa "Prošić" Bihać - izrada fasade od panela
Gas station "Prošić" - facade panels





Štamparija "Atlantik bb" Banja Luka
Printing Office "Atlantik bb" in Banja Luka



Lexus Sarajevo



Prodajno - servisni centar "Graditelj BL" Kladuša - izrada fasade od panela i pokrivanje krova trapeznom limom
Car center "Graditelj BL" Kladuša - facade production and roofing by trapezoidal metal sheet



Prodajni centar "Fis" u Bjeļjini
Shopping center "Fis" in Bjeļjina

Prodajni centar "Fis" Brčko - izrada fasade od panela i pokrivanje krova
Shopping center "Fis" Brčko - facade panels and roofing





Naplatne kućice u Ilijašu
Tollgate in Ilijas



Poslovni objekat "Modul Gradnja" u Sanskom Mostu
Business building "Modul Gradnja" in Sanski Most



Poslovni objekat "Kolmix" u Velikoj Kladuši
Business object "Kolmix" in Velika Kladusa

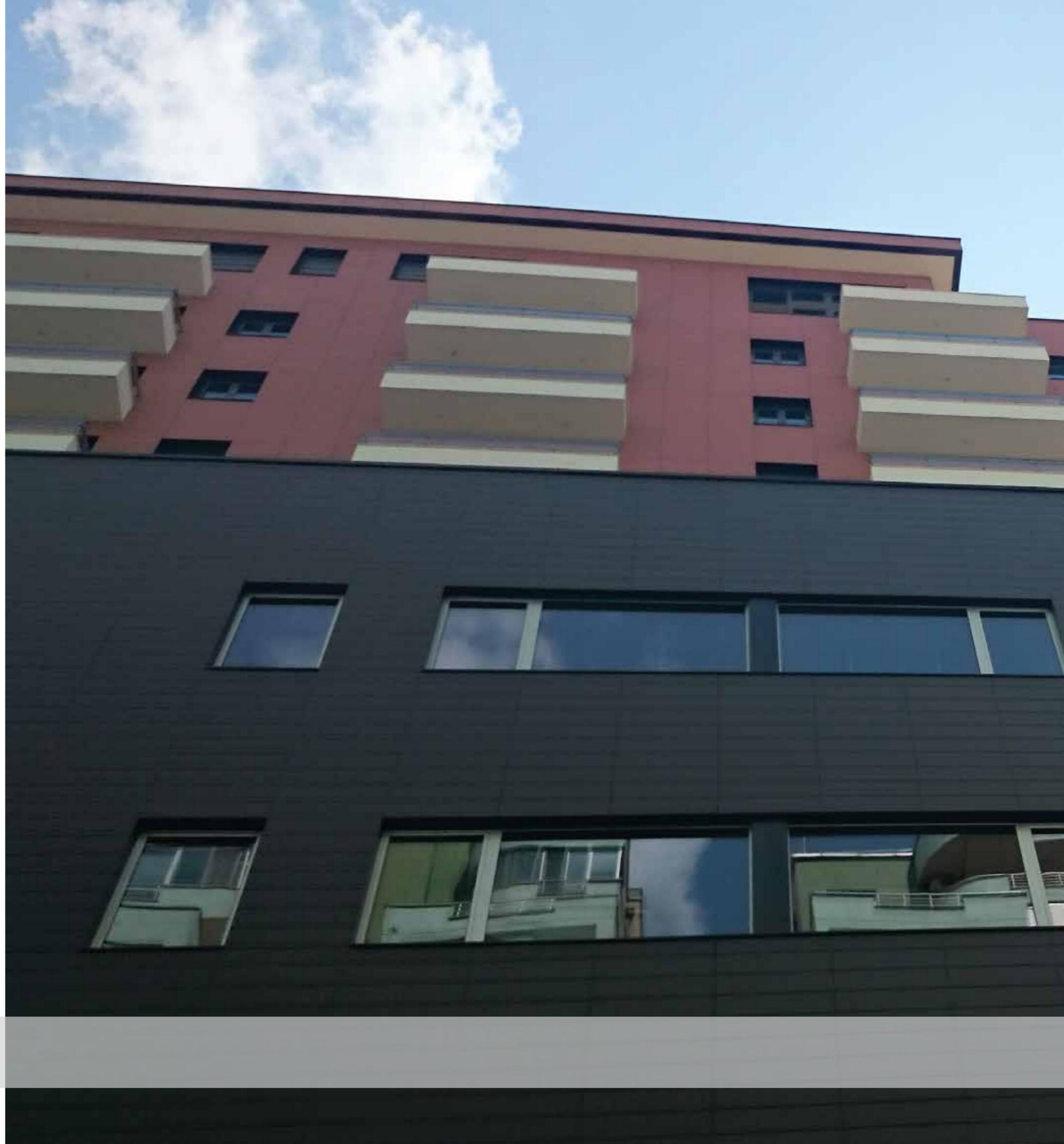


Trgovački centar "Nikić - J" u Prijedoru
Shopping Ceter "Nikic - J" in Velika Kladusa



Trgovački centar "Bingo" u Cazin
Shopping center "Bingo" in Cazin

**VENTILIRAJUĆE
FASADE**
FACADE CLADDING





U našem pogonu imamo proizvodnju ventilirajućih fasadnih obloga od lima. Ventilirajuća fasada od lima (kasetirane fasadne obloge) izrađuju se od čelika, aluminija i inoxa.

Zavisno od vrste materijala i dimenzija ploča određuje se i debljina lima. Ove vrste fasadnih obloga rade se i od niskovalnih lima kao što je trapez i sinusoida.

Pored ventilirajućih fasadnih obloga od lima, u ponudi imamo ventilirajuće fasade kao što su ALUCOBOND ili Alubond U.S.A., TRESPA I FUNDERMAX.

Prije montaže na objektu se priprema podkonstrukcija od al. profila ili čeličnih cijevi i kao izolator se postavlja mineralna vuna. Na tako pripremljenu podlogu montiraju se fasadne ploče, tako da svi spojevi i zavrtnji ostaju sakriveni.

Ovakve fasade zadovoljavaju statičke, građevinske, fizičke i ekološke zahtjeve. Jednostavno i brzo se montiraju, ekonomične su i estetski besprijekorne. Radimo ih u više boja iz RAL karte.

 Our company also produces ventilated facade cladding of tin metal sheets. This type of facade (trayed facade coatings) is made of steel, Alu and galvanised steel.

The thickness of sheets depends of material type and panel size. This sort of facade cladding can be manufactured of lowwave tin sheets too, such as trapezoidal profile and sinusoida fc.

In addition to standard ventilated facade cladding, our offer is consisted of other ventilated facades such as ALUCOBOND, Alubond U.S.A., TRESPA and FUNDERMAX.

As a preparation phase before assembly, aluminium profile or steel pipe underconstruction is beeing installed, whereas mineral wool is used as isolator.

Facade panels are being layed on such prepared base, so that all junctions and screws wolud remain hidden.

These facades satisfy all static, construction, physical and enviromental requirements. They are simply and easily assembled, cost-effective and aestheticaly faultless; while they can be fabricated in many RAL palette colors.



Tržni centar "Garden Mall" Zagreb
Shopping center "Garden Mall" Zagreb

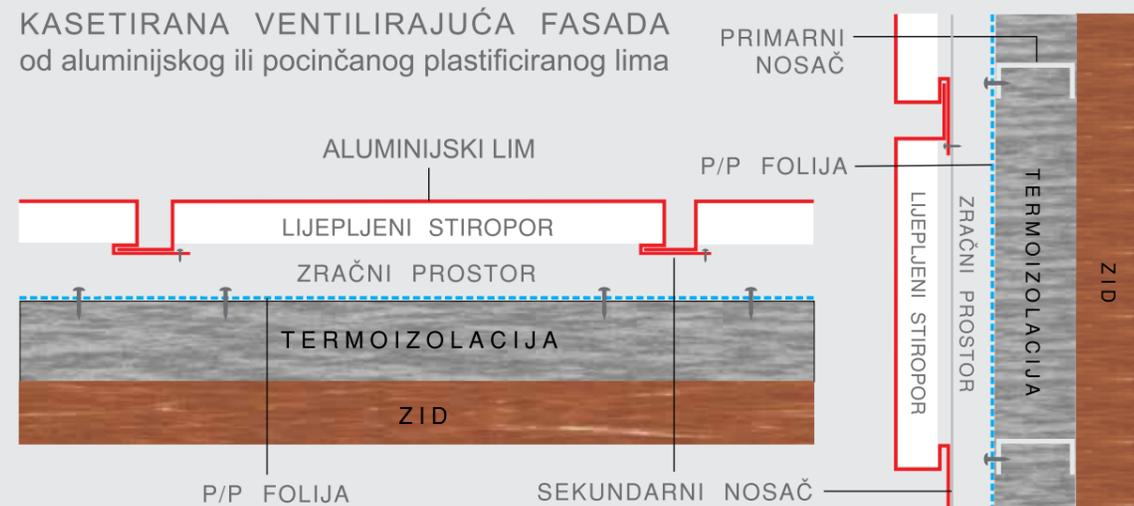


C.U.P.O.V. Zagreb - montaža aluminijske kasetirane fasade
Hotel "Miral" Zagreb - installation of aluminium caisson facade.



Poslovni centar "Čavkunović" Bihać
Business center "Cavkunovic" Bihać

KASETIRANA VENTILIRAJUĆA FASADA
od aluminijskog ili pocinčanog plastificiranog lima





Objekat "Wurth" u Sarajevu - izrada i montaža kasetirane fasade
Business complex "Wurth" in Sarajevo - manufacture and installation of a caisson facade



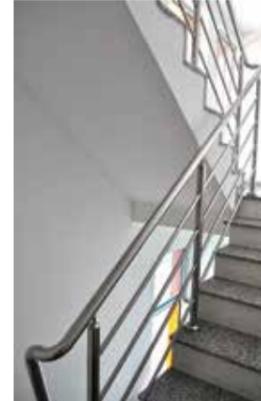
Konzulat Srbije u Banja Luci
Consulate of Serbia in Banja Luka



Prodajni centar "Ferum" Prijedor - izrada i montaža kasetirane fasade
Business center "Ferum" Prijedor - production and installation of caisson facade.



PROIZVODI OD
INOXA
STAINLESS STEEL
PRODUCTS



Inox dimnjake proizvodimo u našem pogonu prema propisima i standardima koje zahtjeva projekat ili izvođač centralnog grijanja.

Proizvodimo ih za privatne stambene kuće, stambene poslovne objekte, proizvodne hale i tržne centre kao i za sve vrste drugih objekata. Zavisno od vrste objekta određuje se i veličina dimnjaka odnosno debljina limova i termoizolacije.

Standardni inox dimnjak se sastoji od unutrašnjeg inox lima debljine 0,80-1,00mm, termoizolacije od kamene vune 5-10cm, i vanjskog lima debljine 0,50mm.

Pored proizvodnje vršimo uslugu i montaže dimnjaka. Inox dimnjak se sastoji od početnog postolja sa posudom i vratima za čišćenje, T komada za spoj, prodora kroz krov i završne kape.

U ponudi pored inox dimnjaka proizvodimo inox ograde unutrašnje i vanjske, unutrašnja stepeništa te ostale elemente od inoxa.

 In our facilities, in accordance with standards and regulations required by project constructors or central heating installers, stainless steel chimneys are being fabricated as well.

These chimneys are implemented in private houses, residential and business buildings, production halls and shopping malls, as well as in all other types of objects. Their size and thickness of tin sheets and thermal isolation depend on type of object in which they are incorporated.

Standard stainless steel chimney consists of 0,80mm – 1,00mm thick inner stainless steel layer, 5,00cm thick rockwool thermal isolation and 0,50mm thick external tin layer. It has a base with a container, a door for cleaning, T-part for binding, a break-out through roof and an enclosure cap. In addition to production, our company offers chimney installation services as well.

Alongside with chimneys, our product offer is enhanced with indoor and outdoor fences, indoor staircases and other elements of stainless steel.

**ČELIČNE I
DRVENE KONSTRUKCIJE**
STEEL AND WOODEN
CONSTRUCTIONS





Magacin Hol u Podgorici
Warehouse in Podgorica



Benzinska pumpa "Kafe Tank" Ćoralići
Gas station "Kafe Tank" in Ćoralići



Benzinska pumpa "Euro Jet" Todorovo, Velika Kladuša
Gas station "Euro Jet" in Velika Kladuša



Nadstrešnica Hard Discount "Laković" u Podgorici
Eaves of Hard discount "Lakovic" in Podgorica



Drvene konstrukcije
Wooden Structures



Benzinska pumpa "Adna" u Bihaću
Gas station "Adna" in Bihac



Benzinska pumpa "Grand benz" Velika Kladuša
Gas station "Grand benz" in Velika Kladusa



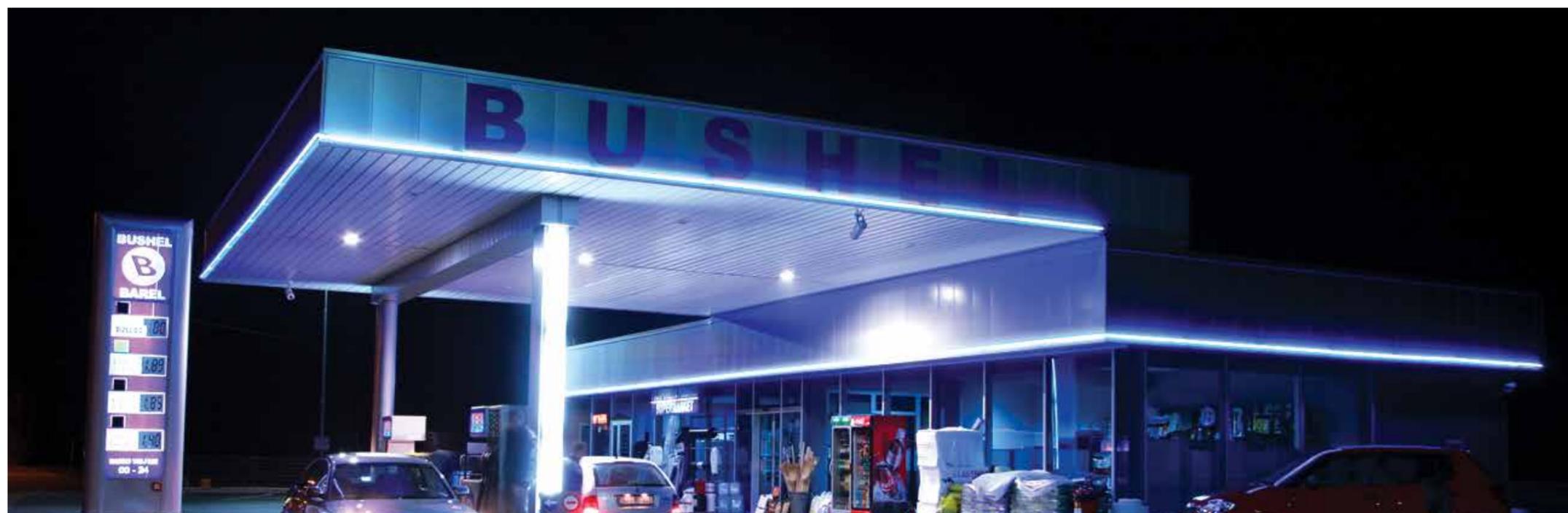
Benzinska pumpa "OMV" u Prijedoru
Gas station "OMV" in Prijedor



Benzinska pumpa "Zijo AB Merc" Trzac
Gas station "Zijo Ab Merc" in Trzac



Benzinska pumpa "Euro-jet" Ćoralici
Gas station "Euro-jet" in Coralici



Benzinska pumpa "Bushel" u Gati kod Bihaća
Gas station "Bushel" in Gata, Bihac



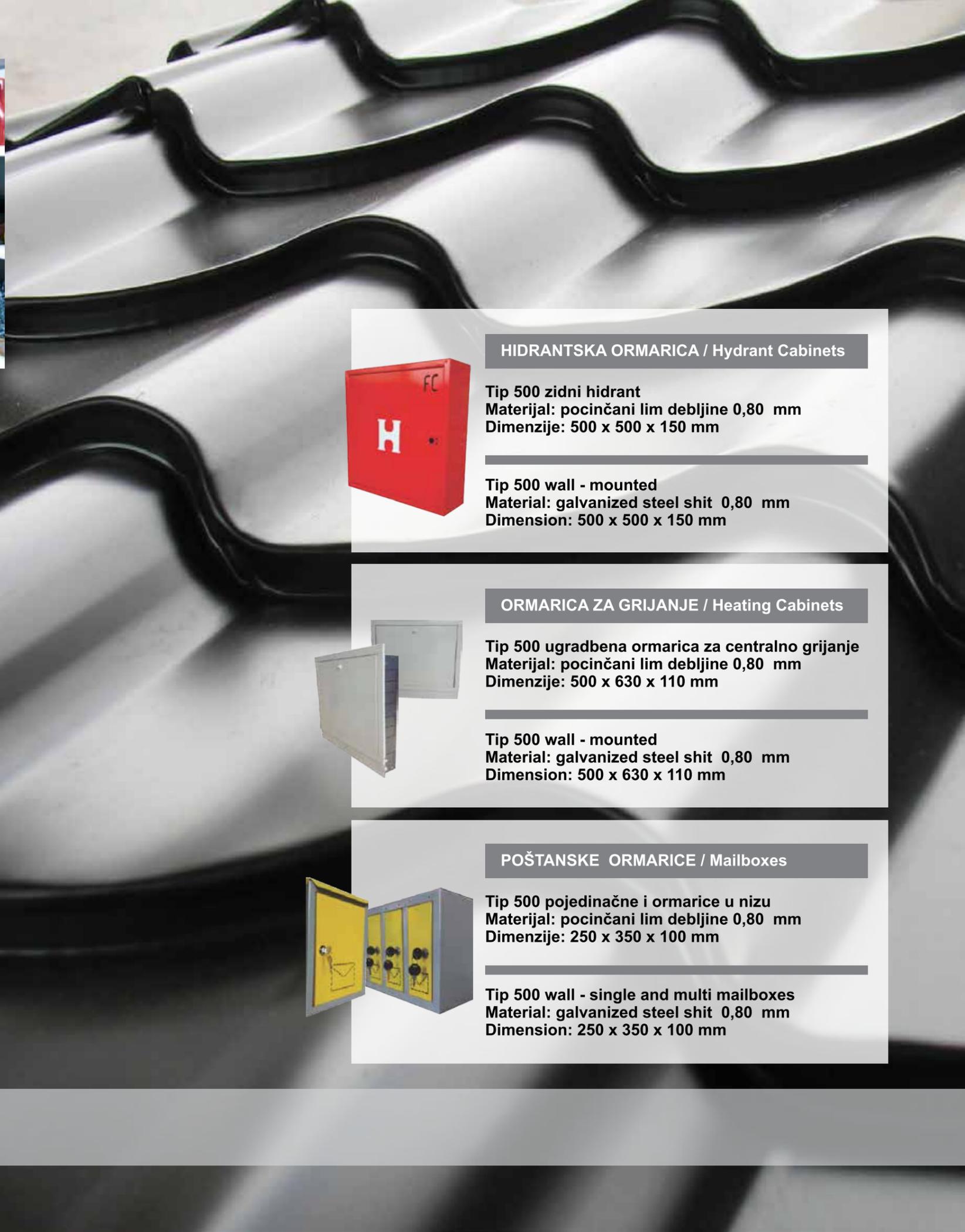
U našem prodajnom objektu nudimo sve vrste gotovih limarskih proizvoda kao što su odvodi, cijevi, oluci, koljena, kuke, šelne i snjegobrani u više dimenzija, materijala i boja, promjera od 6 do 12 cm, kao i ostalu galanterija i alate za obradu lima.

Pored standardnih limarskih proizvoda imamo nabavku sendvič panela, ispune od poliuretana, kamene vune i stiropora.

 Our sale facilities offer many finished tin products such as drains, pipes, gutters, bends/knees, hooks, embracers and snow guards, made of various materials, in different sizes and colors, with diameter 6 – 12cm; as well as other products and tools for tin processing.

Along with standard tin products, our company offers sandwich panels, polyurethane, rockwool and styrofoam fillings.

PRODAJA GRAĐEVINSKE LIMARIJE SALES & DISTRIBUTION



HIDRANTSKA ORMARICA / Hydrant Cabinets



Tip 500 zidni hidrant
Materijal: pocinčani lim debljine 0,80 mm
Dimenzije: 500 x 500 x 150 mm

Tip 500 wall - mounted
Material: galvanized steel sheet 0,80 mm
Dimension: 500 x 500 x 150 mm

ORMARICA ZA GRIJANJE / Heating Cabinets



Tip 500 ugradbena ormarica za centralno grijanje
Materijal: pocinčani lim debljine 0,80 mm
Dimenzije: 500 x 630 x 110 mm

Tip 500 wall - mounted
Material: galvanized steel sheet 0,80 mm
Dimension: 500 x 630 x 110 mm

POŠTANSKE ORMARICE / Mailboxes



Tip 500 pojedinačne i ormarice u nizu
Materijal: pocinčani lim debljine 0,80 mm
Dimenzije: 250 x 350 x 100 mm

Tip 500 wall - single and multi mailboxes
Material: galvanized steel sheet 0,80 mm
Dimension: 250 x 350 x 100 mm

POSJETITE NAS

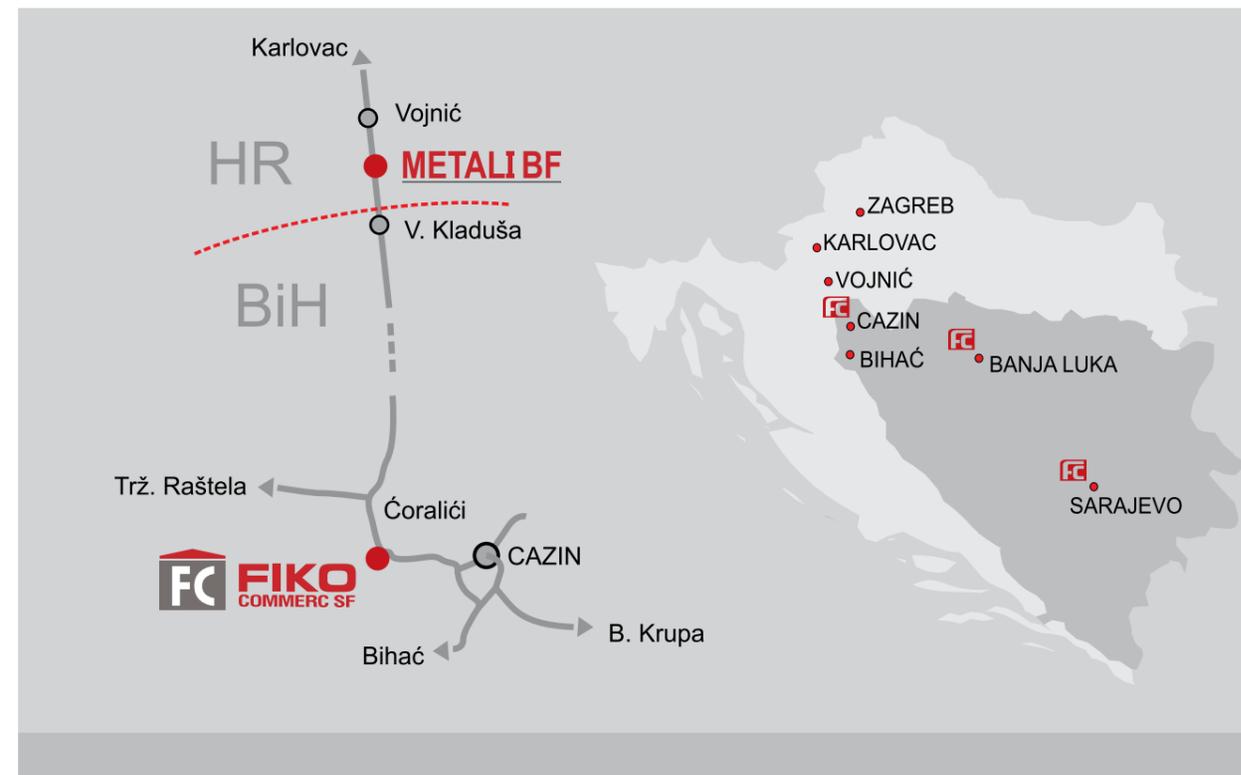
U sklopu aktivnosti na predstavljanju našeg rada stalni smo izlagači na tri značajnija sajma u Bosni i Hercegovini.

Pozivamo Vas i ovim putem da nas posjetite u Banjaluci, Zenici i Mostaru.

Naša centrala i najveći proizvodni pogon nalaze se u Čoralićima kod Cazina.

Pored toga, imamo proizvodnju u Skokovima i kod Vojnića u Republici Hrvatskoj.

U Banjaluci je otvorena naša kancelarija, a u pripremi je otvaranje proizvodno-prodajnog objekta u novoj banjalučkoj industrijskoj zoni u Ramićima.



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