



EJOT®

VENTILIRANA OVOJNICA ZGRADE

- ESTETIKA
- FUNKCIONALNOST
- INOVATIVNOST

Nikola Hulina

Project Manager EJOT CROSSFIX

& Sales Western Balkans

Mobil. +385 (0)91 2244-868

e-mail. nhulina@ejot.com

CROSS -| - FIX®
EJOT® Fassadensystem

- **POZNAVANJE MATERIJALA**
- **POZNAVANJE TEHNOLOŠKIH PROCESA
PROIZVODNJE I OBRADJE**
- **POZNAVANJE PROCESA, REDOSLIJEDA
I MOGUĆNOSTI MONTAŽE**

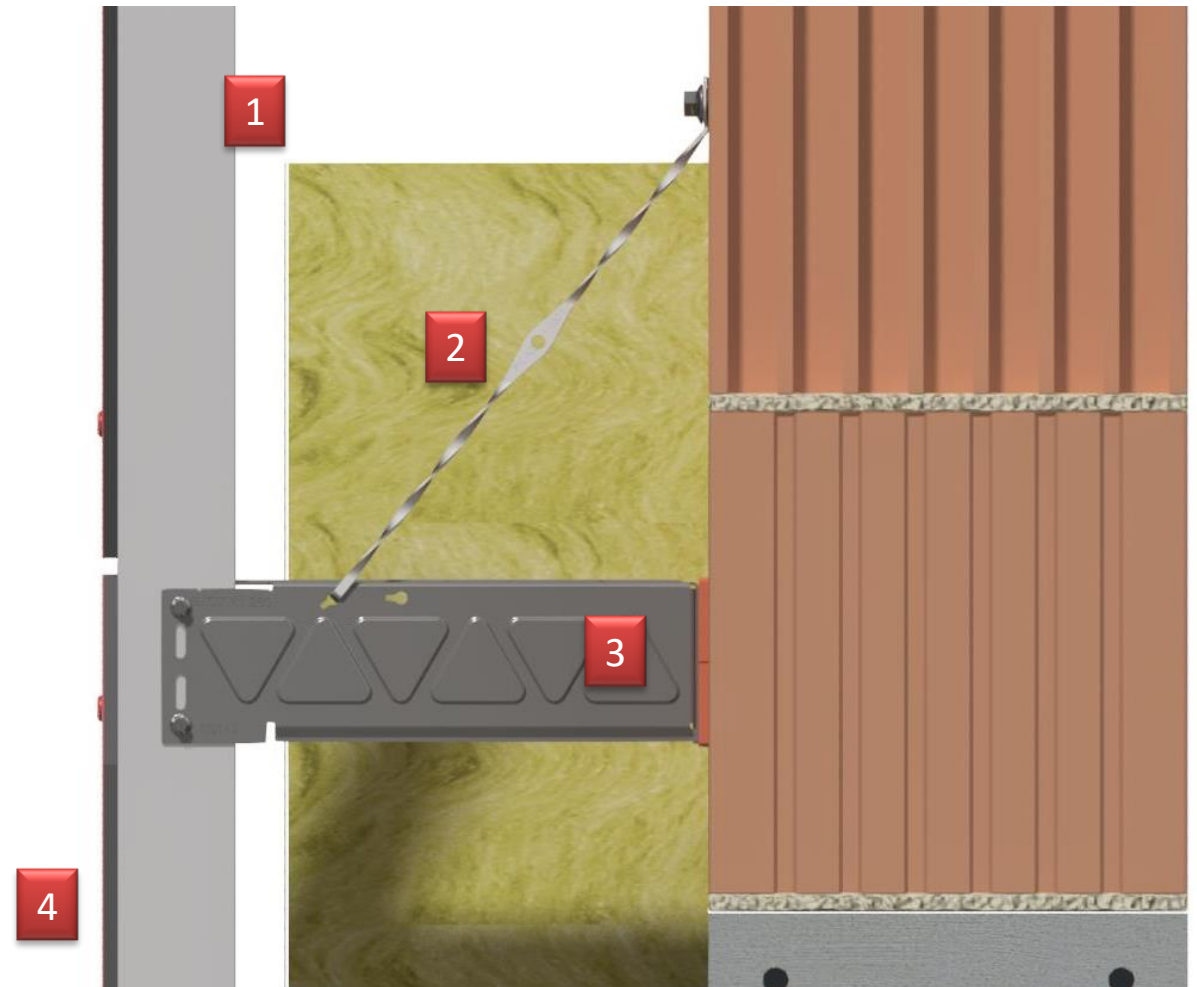


 VENTILIRAJUĆI SLOJ ZRAKA

 TERMOIZLACIJA
ROCKWOOL

 POTKONSTRUKCIJA (OVJES)
EJOT CROSSFIX

 ZAVRŠNA FASADNA OBLOGA



- Uvjeti za postizanje cirkulacije zraka u ventiliranom sloju

EJOT spojna tehnika d.o.o. Tel: 00385 (0)1/3498612
F. Lučića 23/3 00385 (0)1/3498962
10090 ZAGREB Fax: 00385 (0)1/3498963
OIB: 49128061924 E-Mail: ejot@ejot.hr
PDV ID: HR49128061924



Proračun širine zračnog sloja u skladu s DIN 18156-1

a) Ulazni podaci

- <u>Širina zračnog sloja:</u>	s =	2,0	cm
- <u>Površina zračnog sloja:</u>	A =	200,0	cm ² /m'
- <u>Brzina ventiliranja zraka:</u>	v ₁ =	0,2	m/s
- <u>Visina ventiliranog dijela fasade:</u>	l =	16,6	m
- <u>Faktor strujanja zraka (prema Wagneru):</u>	Φ =	2,0	

b) Potrebna površina zračnog sloja

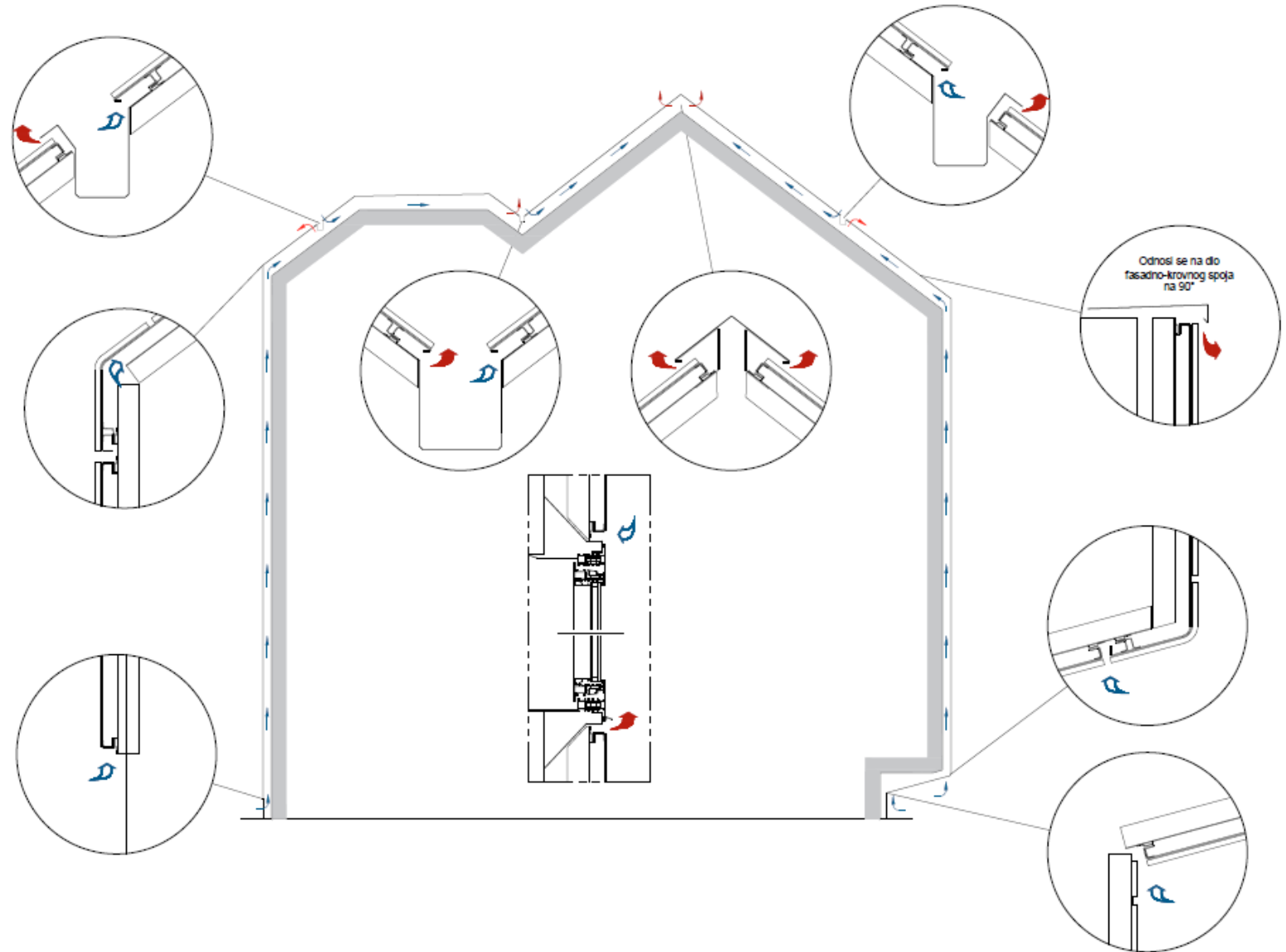
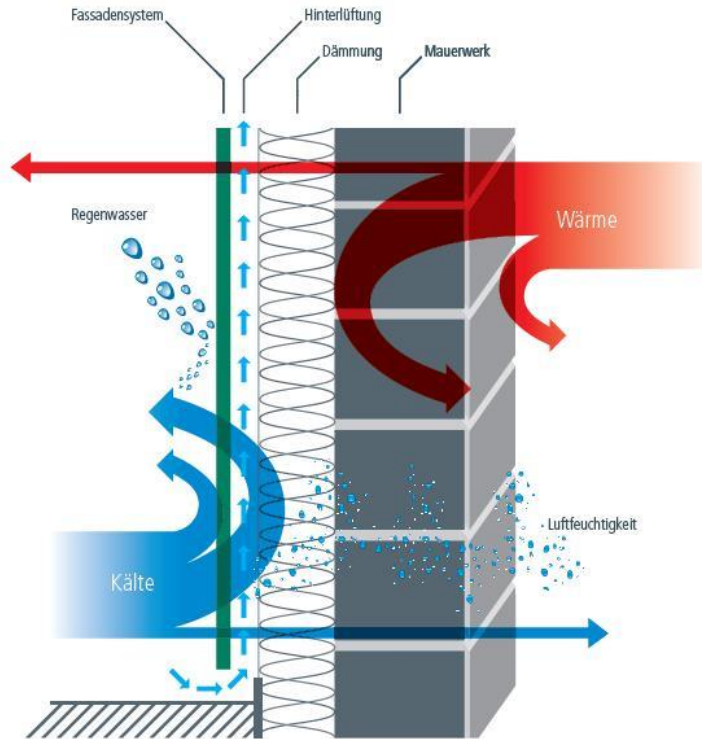
$$A_c = \Phi \cdot l / v_1 = 166,0 \text{ cm}^2/\text{m}' < 200,0 \text{ cm}^2/\text{m}'$$

Zadovoljava

Uvjeti primjene (u skladu s DIN 18156-1):

- Najmanja dimenzija otvora zaštitnih perforiranih limova na ulazu i izlazu mora biti veća od 3 mm
- Neto površina otvora na zaštitnim perforiranim limovima mora biti $\geq 50 \text{ cm}^2/\text{m}'$.

- Postizanje cirkulacije zraka kroz razliku u temperaturi, odnosno tlaku zraka = sušenja zida i obloge



• Toplinska provodljivost

• Zvučna izolacija

• Paro-propusnost

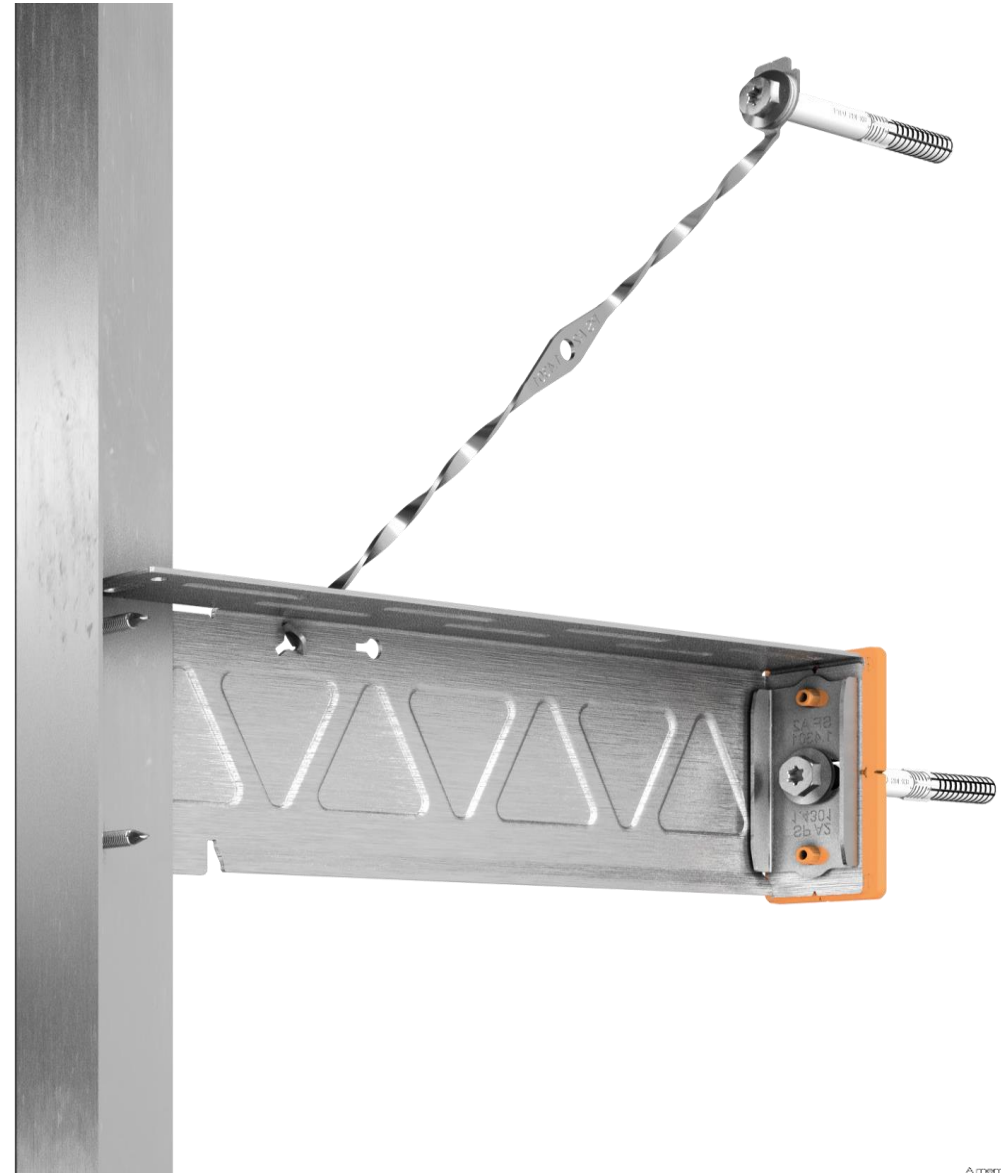
• Vodo-odbojnost

• Vatrootpornost

• Dugotrajnost



- Preuzimanje i siguran prijenos opterećenja na nosivu konstrukciju objekta
- Dugotrajnost i postojanost
- Fleksibilnost i kompatibilnost sa svim arhitektonskim zahtjevima



1 CF Zidna konzola
(40 mm – 400 mm)



2 CF Powerkey
(za fiksne točke)



3 CF Podložna pločica
(za bolji prijenos opterećenja)



4 CF Termo-stop
(za bolje U - vrijednosti)

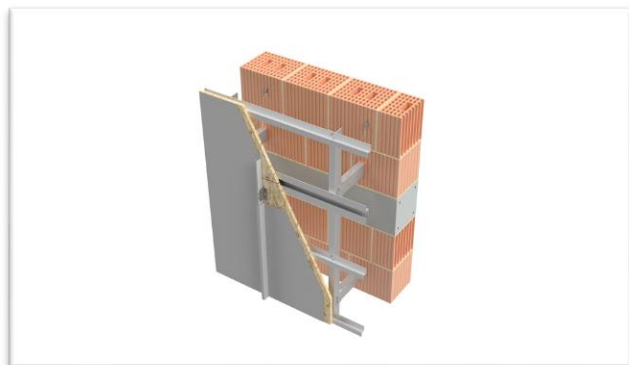
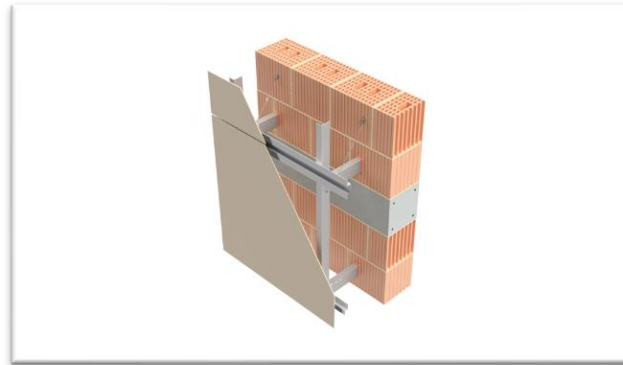
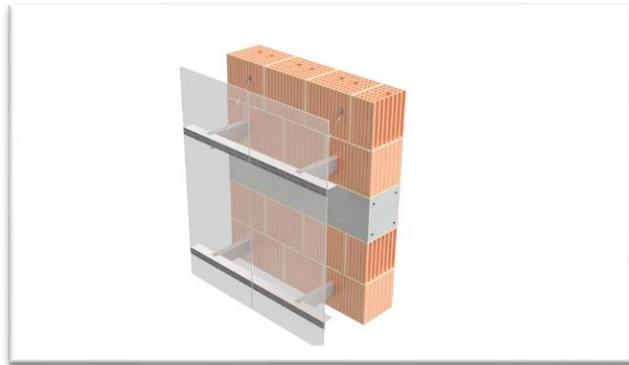
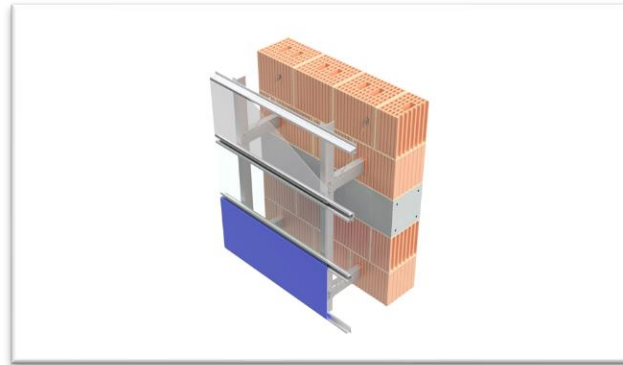
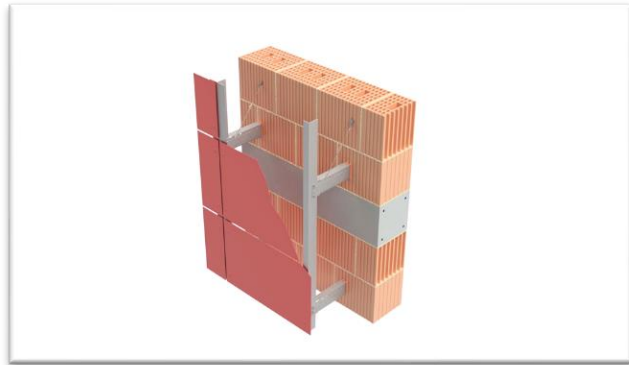


5 EJOT Tiple i vijci (za sve vrste podloga)








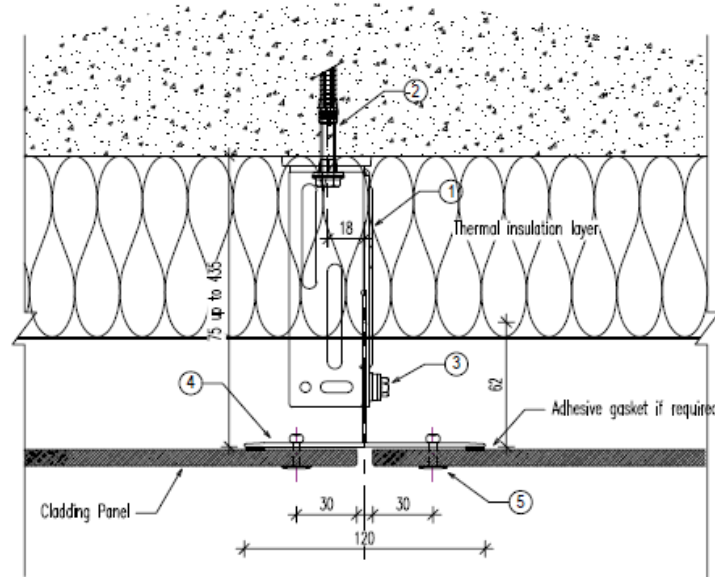
6 CF Profili (za sve vrste fasadnih obloga)



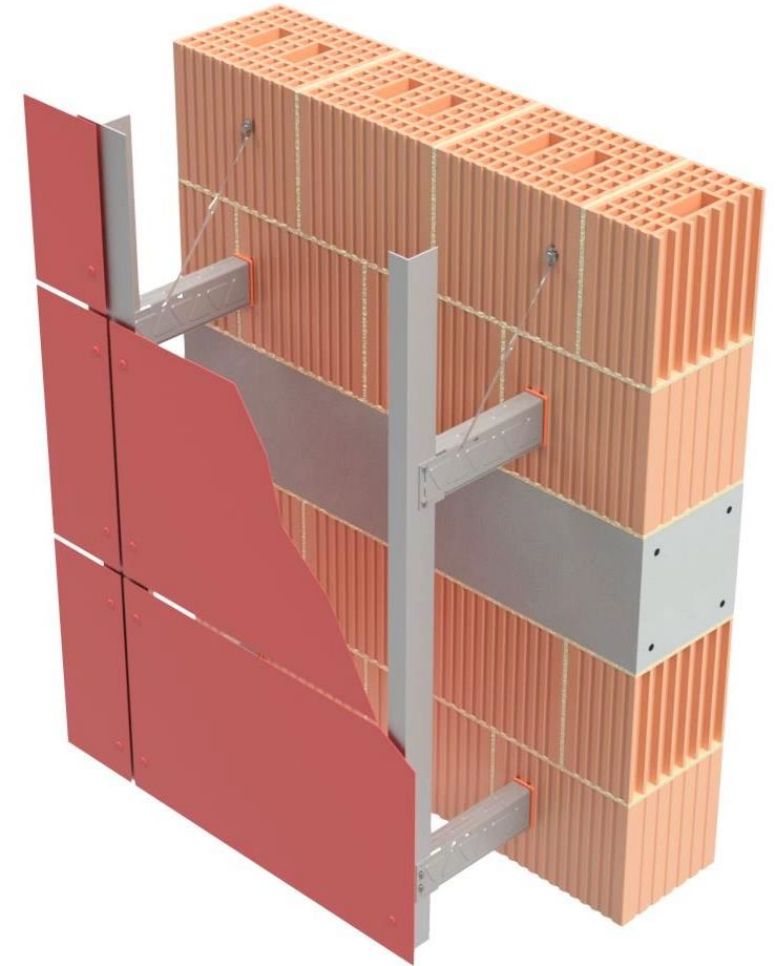
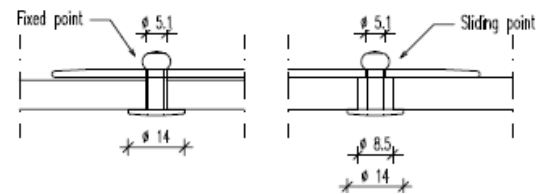


PANELNI SISTEMI

-  Najčešći sistem u upotrebi
-  Minimalna radionička obrada
-  Optimalan prijenos opterećenja na nosivu konstrukciju
-  Otvorene horizontalne fuge
-  Vidljivi ili ne vidljivi način pričvršćenja fasadne ploče



CLADDING FIXING EXAMPLES





Muzička i baletna akademija, Novi Sad



Američka međunarodna škola u Zagrebu, Zagreb







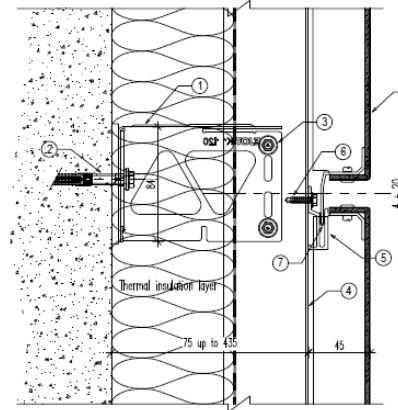
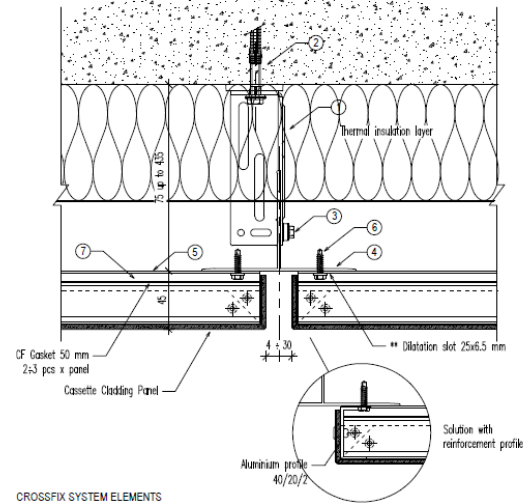
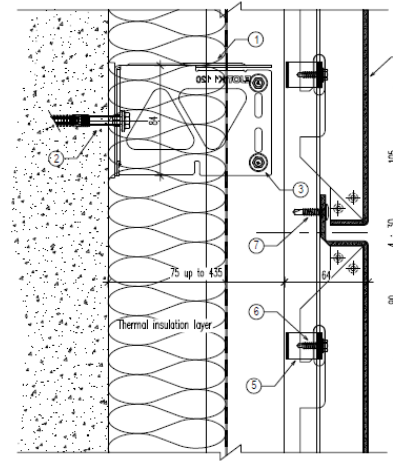
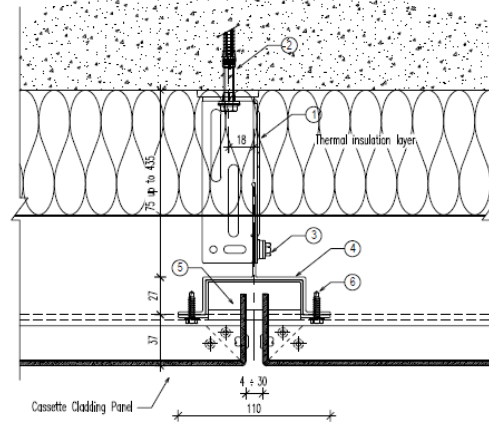
Studentski dom Dubrovnik, Dubrovnik



NAVELA d.o.o., Pula

KAZETNI SISTEMI

-  Jednostavna montaža i demontaža
-  Radionička obrada srednje zahtjevna
-  Zatvorene horizontalne fuge
-  Nevidljivi način mehaničkog pričvršćenja





Zračna luka Split, Split



Studentski dom Pula, Pula



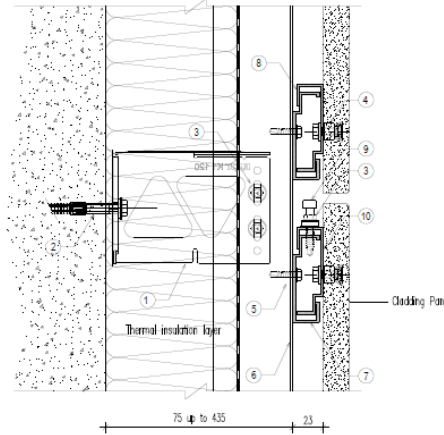
Aosta University, Aosta



Oskar von Müller Gymnasium, München

„AGRAFFNI” SISTEMI

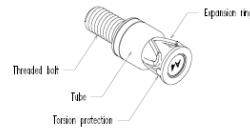
- Jednostavna montaža i demontaža
- Zahtjevna radionička obrada
- Visok stupanj preciznosti montaže i pripreme
- Otvorene horizontalne fuge
- Nevidljivi način mehaničkog pričvršćenja



AVAILABLE TYPES OF ANCHORS

E-H UNDERCUT ANCHOR
External thread M6 or M8
Stainless steel A4

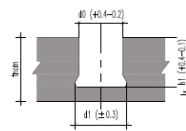
E-I UNDERCUT ANCHOR
External thread M6 or M8
Stainless steel A4



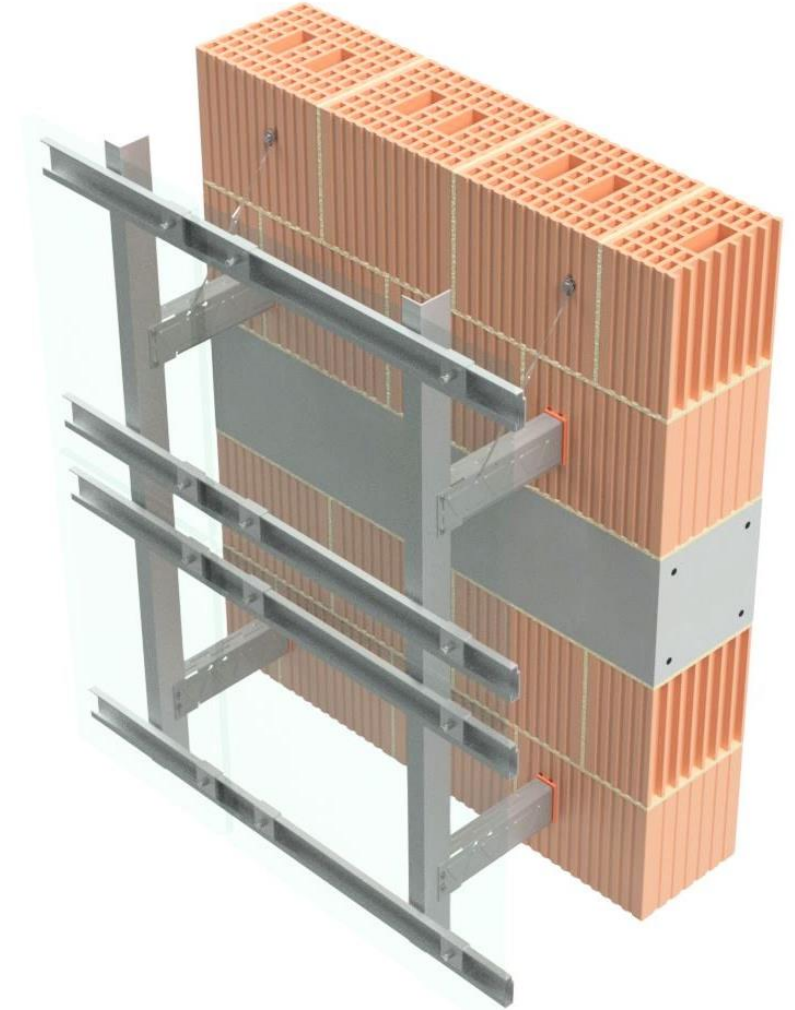
CHARACTERISTICS OF ALLOWED MATERIALS

- Facade panels made of natural stone according to EN 1469:2015.
- Bending tensile strength of material $\geq 10,6$ MPa
- Natural stones free of fractures, mechanically effective cracks and aging
- Nominal panel thickness min 20(30) < math> < math> < math> < math> < math>
- Max panel format 3 sqm, max side length 3000 mm
- Number of anchors (rectangular arrangement) 4

DRILLING HOLE SIZE



Hole depth (h1) mm = 12 or 15
Hole diameter (d1) mm = 11 or 13
Undercut (d2) mm = 13.5 or 15.5
Safety thickness (h2) mm 0.4 x h1

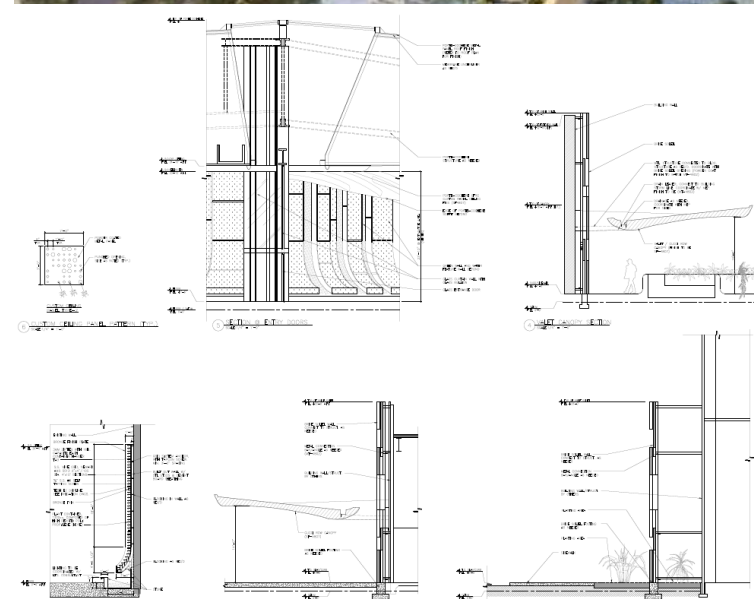




K-District, Beograd

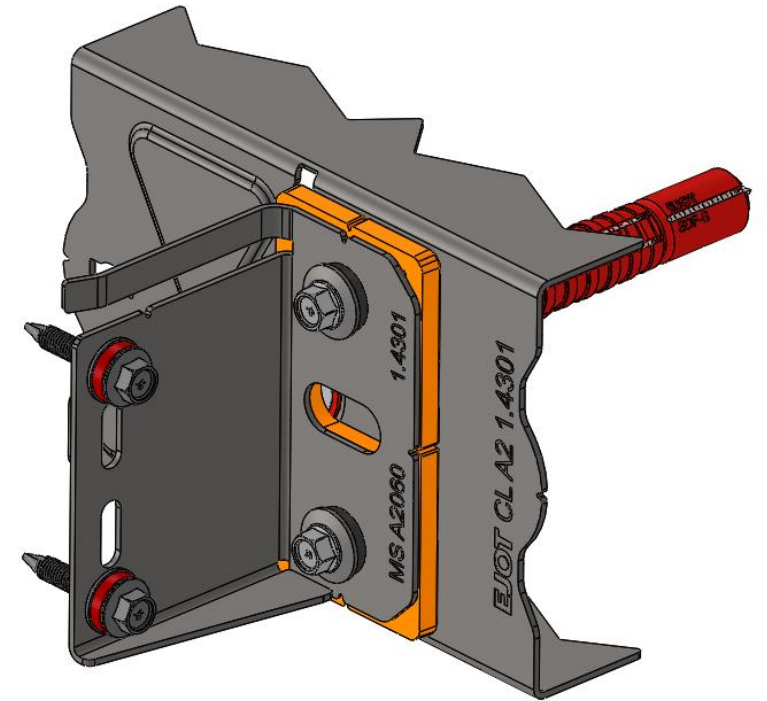
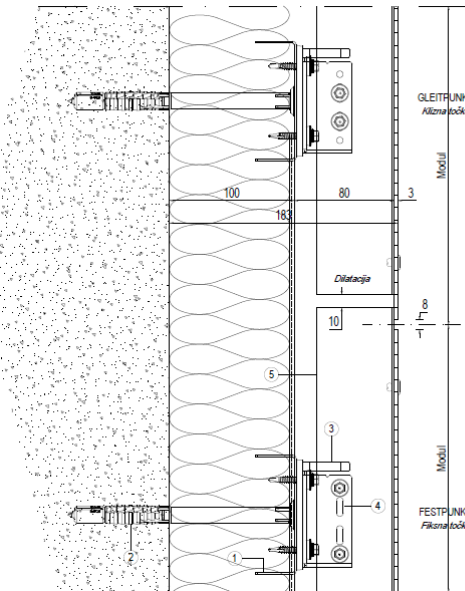
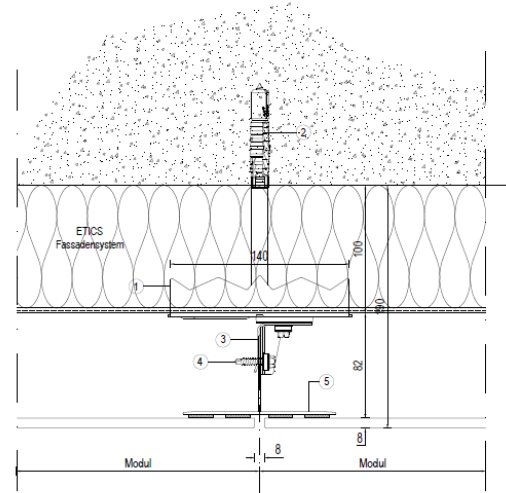


Hard Rock Hotel, Miami



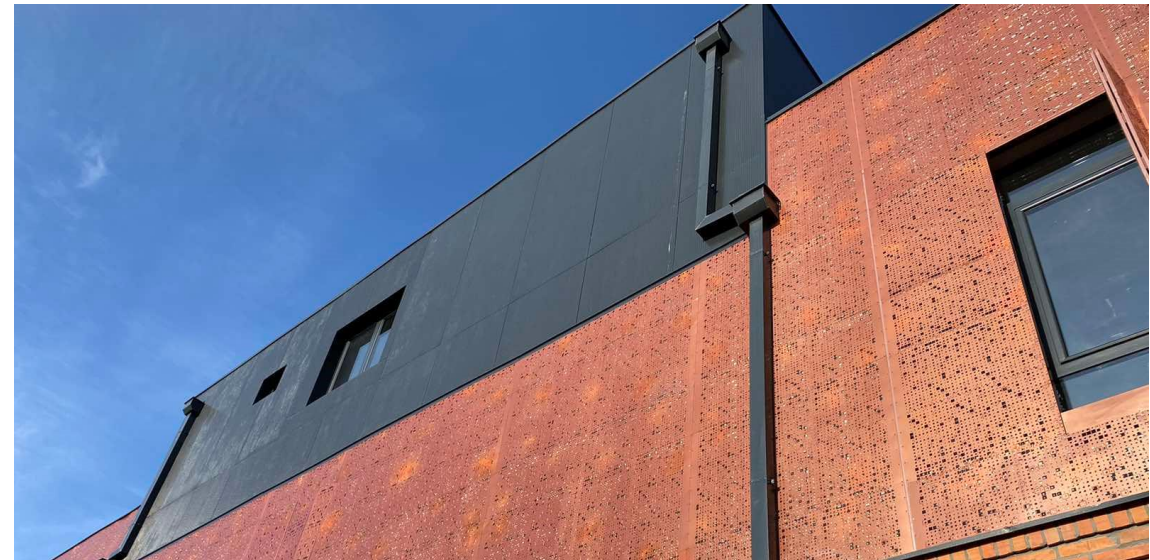
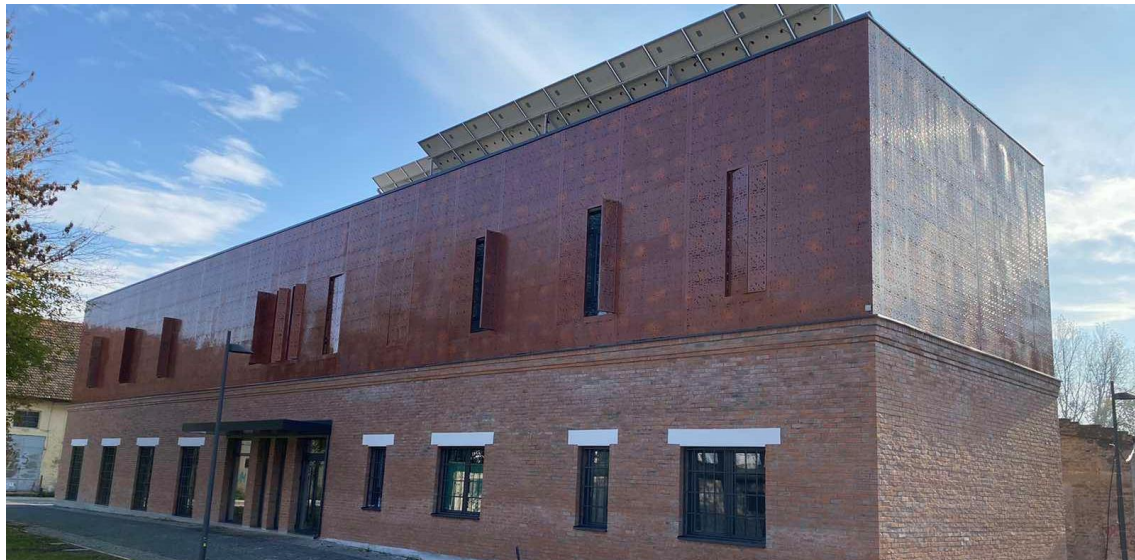
„HIBRIDNI” SISTEMI (ETICS + VHF)

- Jednostavna montaža na postojeći ETICS
- Prijenos opterećenja sa potkonstrukcije na nosivu konstrukciju zida
- Kompatibilan sa ostalim vrstama ovjesa





Dom Kulture, Novi Sad

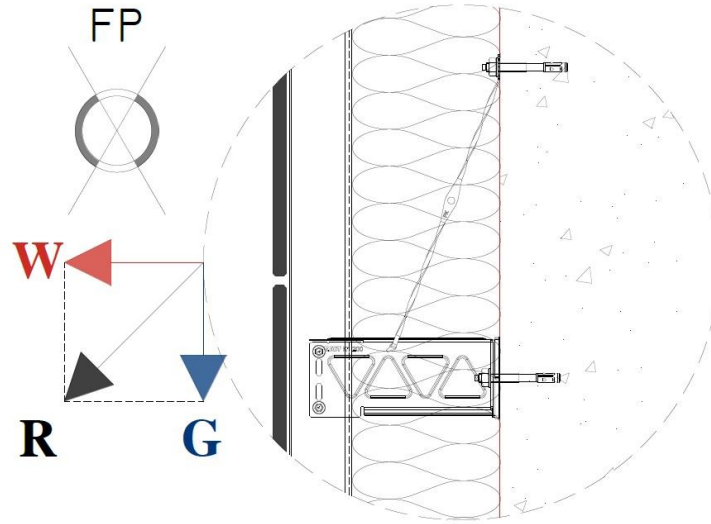


VRSTE OPTEREĆENJA

VLASTITO OPTEREĆENJE

 Težina fasadnog panela

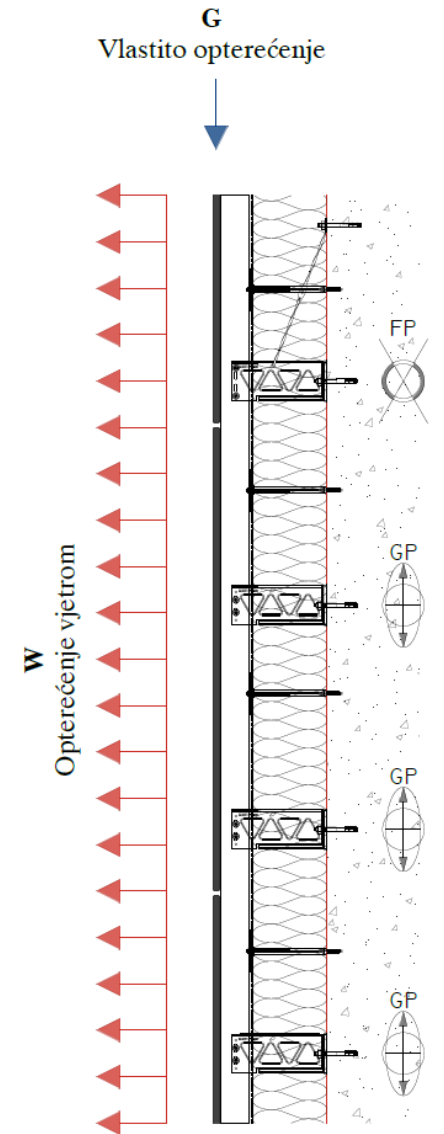
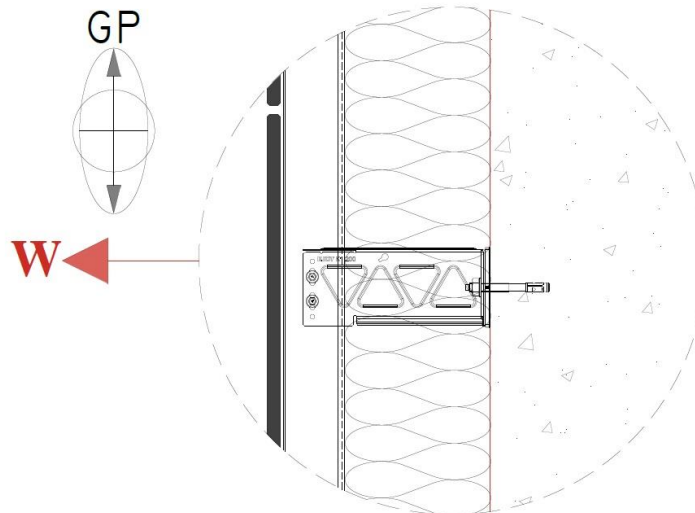
 Težina sustava potkonstrukcije



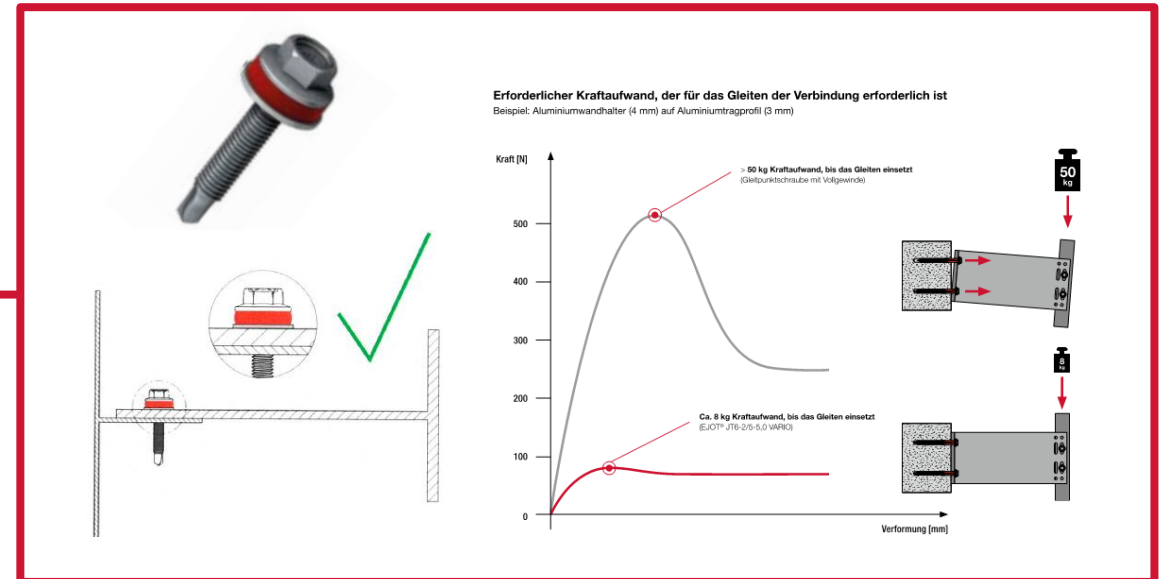
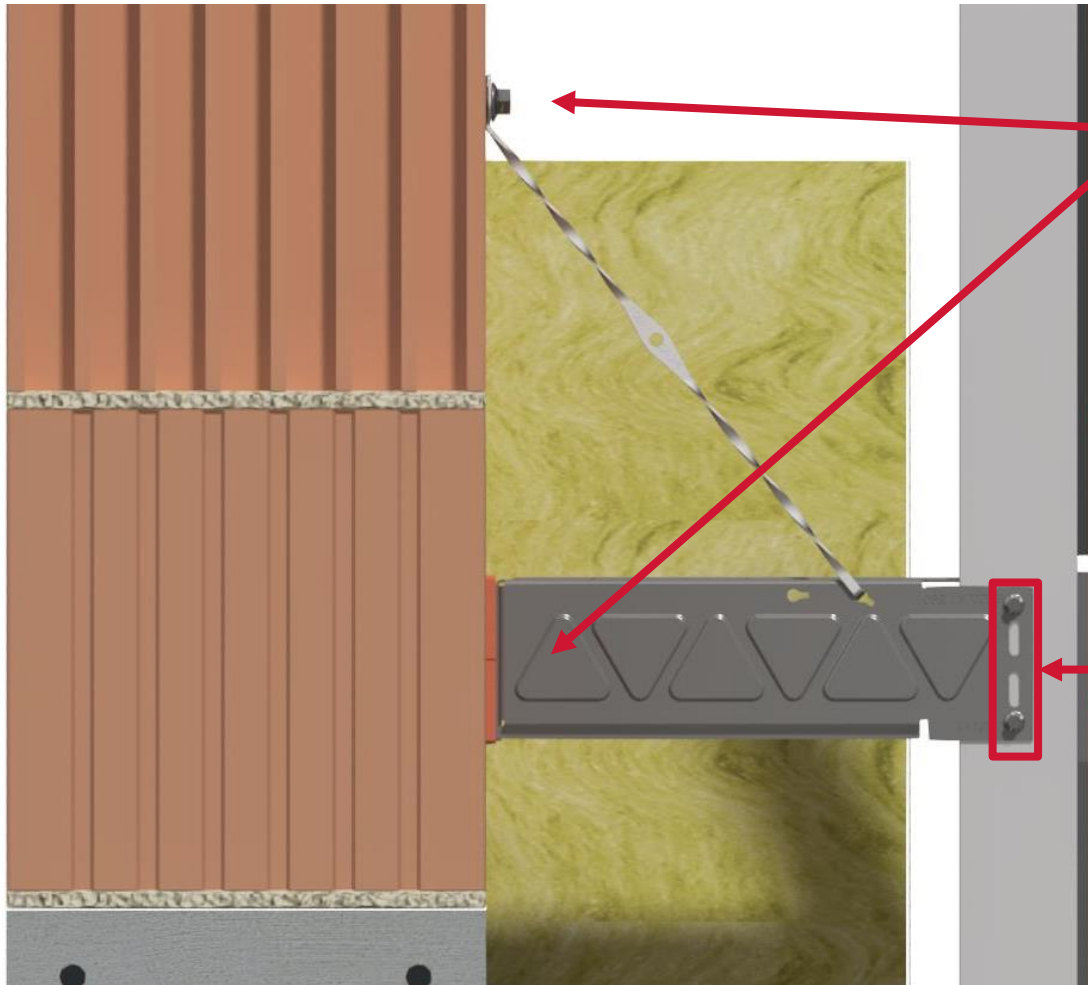
OPTEREĆENJE VJETROM

 Usis vjetra

 Pritisak vjetra



PRIENOS OPTEREĆENJA I SIDRENJE



STATIČKI PRORAČUN

Skica sustava

Izračun djelovanja

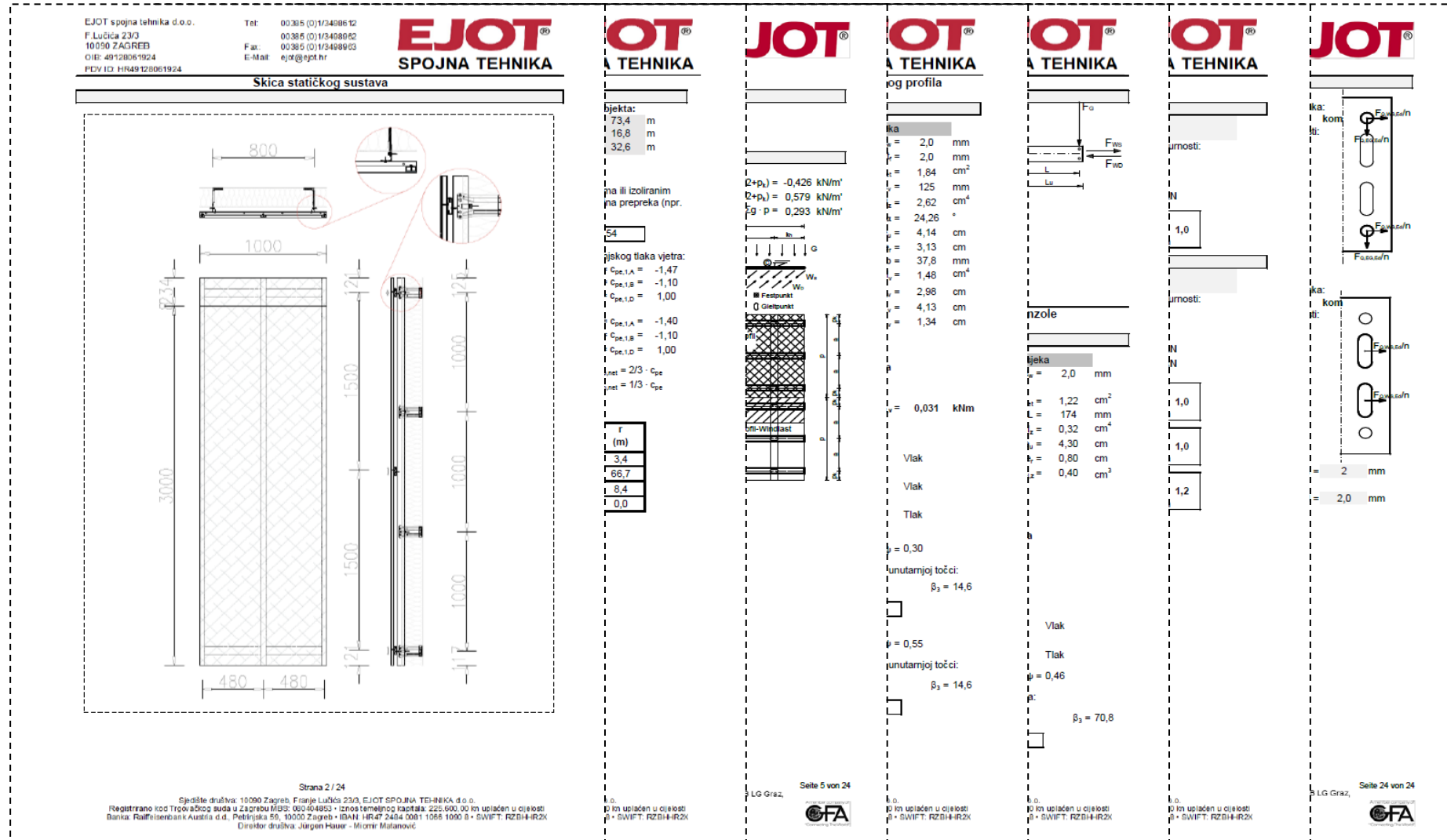
Analiza opterećenja

Dokaz nosivosti

svih elemenata

sustava (EC, FEM,

ETA...)



SEIZMIČKA STABILNOST I POSTOJANOST



Table 13: Results of the perpendicular excitation test

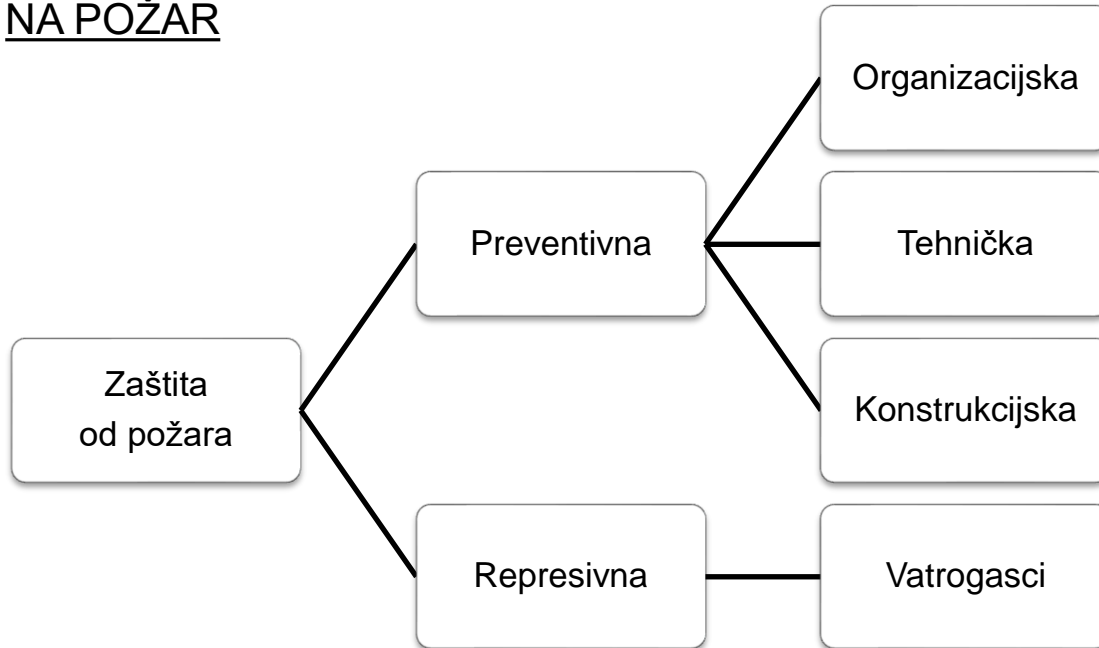
PHASE No.	ACCELERATION a_i in m/s^2	OBSERVATIONS
Phase 1	3.5 (137-13/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 2	5 (196-7/8 in/s ²)	- No elements fell off. - No damage was observed.
Phase 3	6.4 (251-15/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 4	8 (314-15/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 5	9.3 (366-11/8 in/s ²)	- No elements fell off. - No damage was observed.
Phase 6	11.2 (440-15/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 7	14 (551-3/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 8	16.5 (649 - 5/86 in/s ²)	- No elements fell off. - No damage was observed.



Raster profila	=	600 mm
Raster zidnih konzola	=	1000 mm
Težina fasadne obloge	=	40 kg/m ²

PHASE No.	ACCELERATION a_i in m/s^2	OBSERVATIONS
Phase 1	3.5 (137-13/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 2	5 (196-7/8 in/s ²)	- No elements fell off. - No damage was observed.
Phase 3	6.4 (251-15/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 4	8 (314-15/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 5	9.3 (366-11/8 in/s ²)	- No elements fell off. - No damage was observed.
Phase 6	11.2 (440-15/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 7	14 (551-3/16 in/s ²)	- No elements fell off. - No damage was observed.
Phase 8	16.5 (649 - 5/86 in/s ²)	- No elements fell off. - No damage was observed.

VATROOTPORNOST I REAKCIJA NA POŽAR



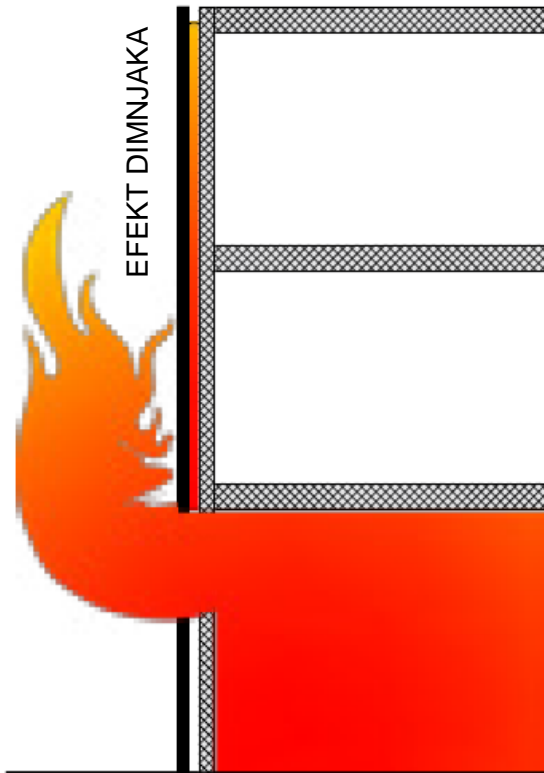
Cilj mjera zaštite od požara:

Spriječiti širenje požara na više od dva kata iznad kata na kojem se započeo, do dolaska vatrogasaca!

Grenfell Tower, London (2017)

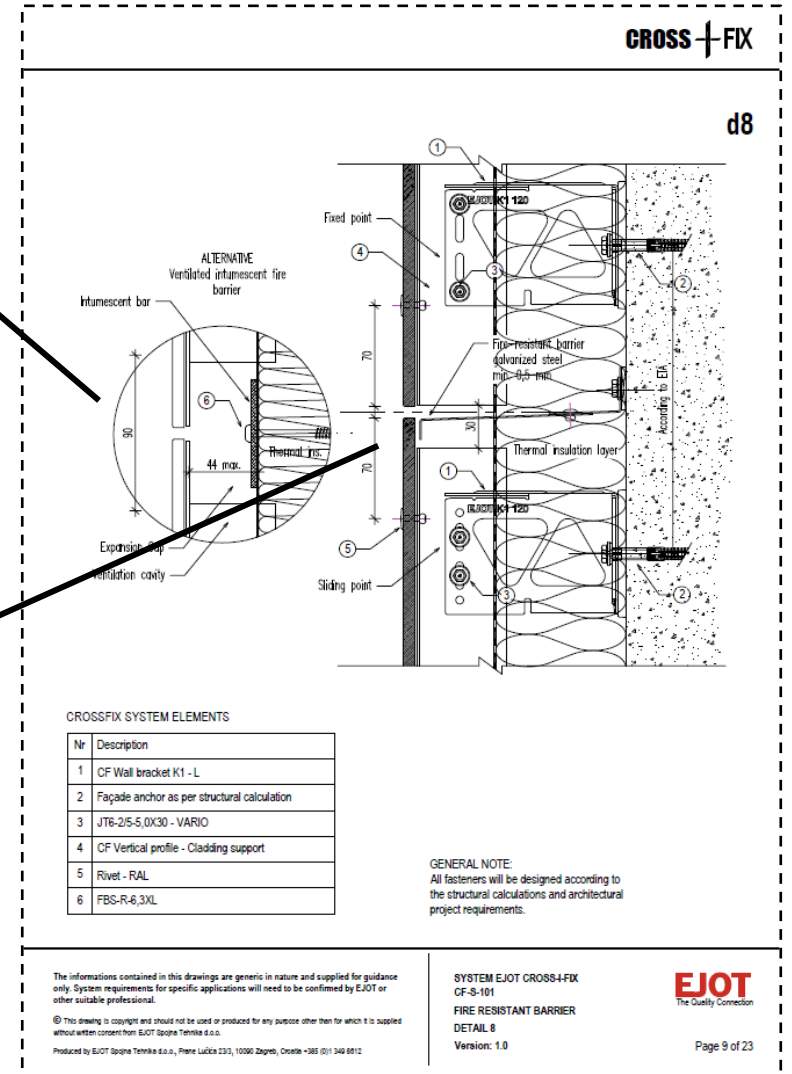


VATROOTPORNOST I REAKCIJA NA POŽAR



Advantages

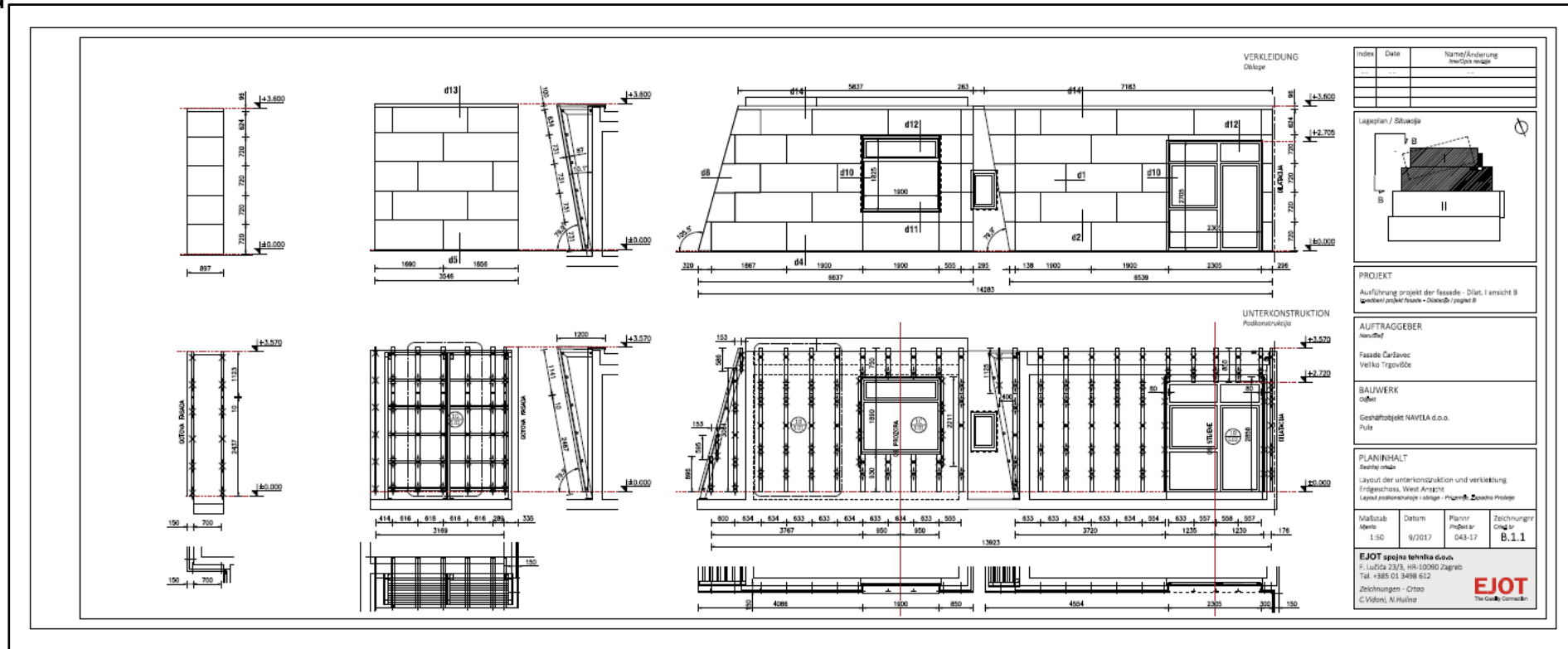
- Fully tested to "ASFF TGD-19: Fire resistance Test for 'open-state' cavity barriers used in the external envelope or fabric of buildings"
- Up to 60 minutes fire integrity and insulation
- Satisfies NHBC and CWCT guidance for ventilation gaps at fire barrier locations
- Weather resistant
- Easy site storage and handling
- Combined with ROCKWOOL RAINSCREEN DUO SLAB it simplifies the design of high rise buildings above 18m



IZVEDBENI PROJEKT


Izvođači / Monteri

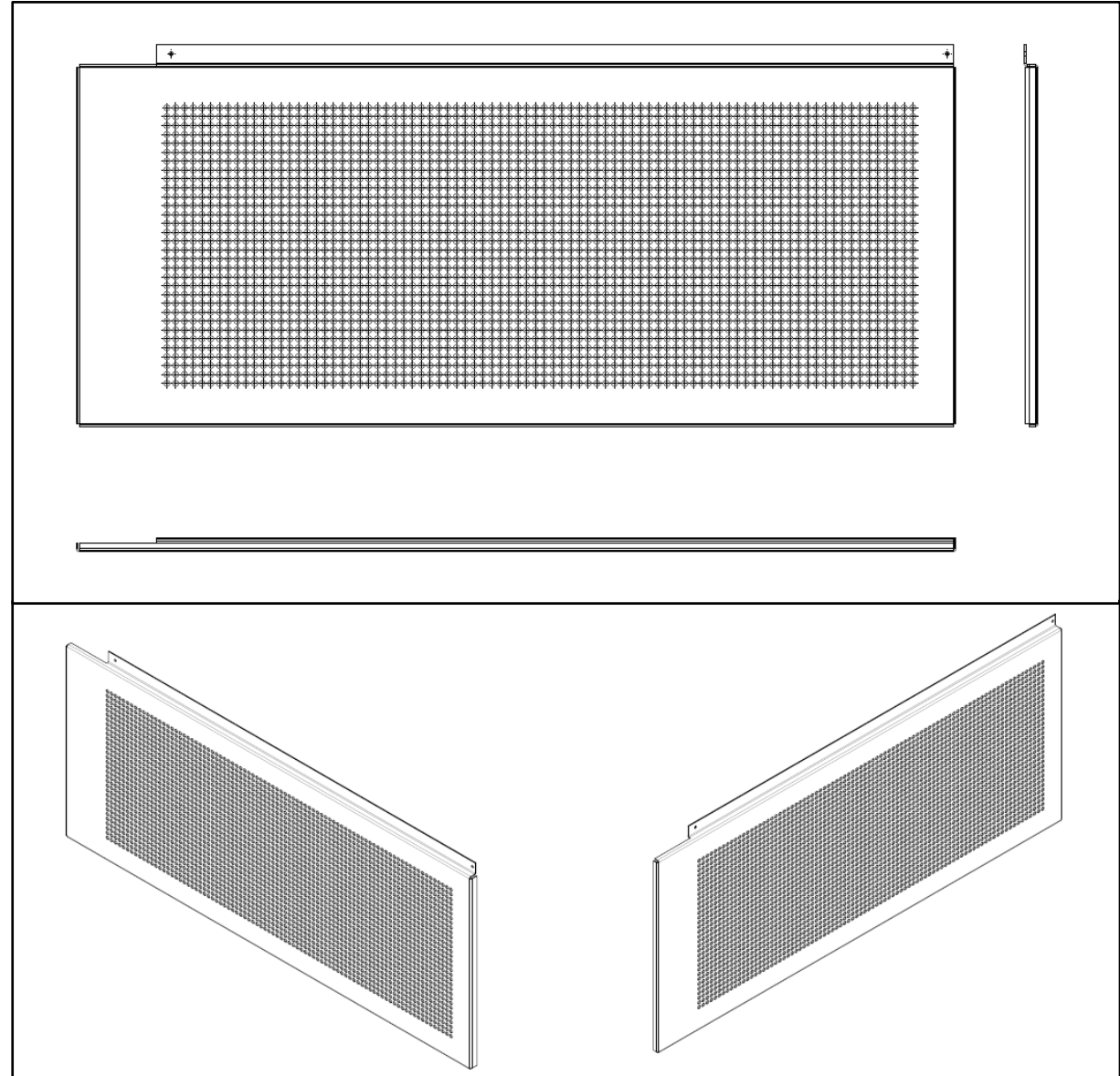
Precizni nacrti za montažu



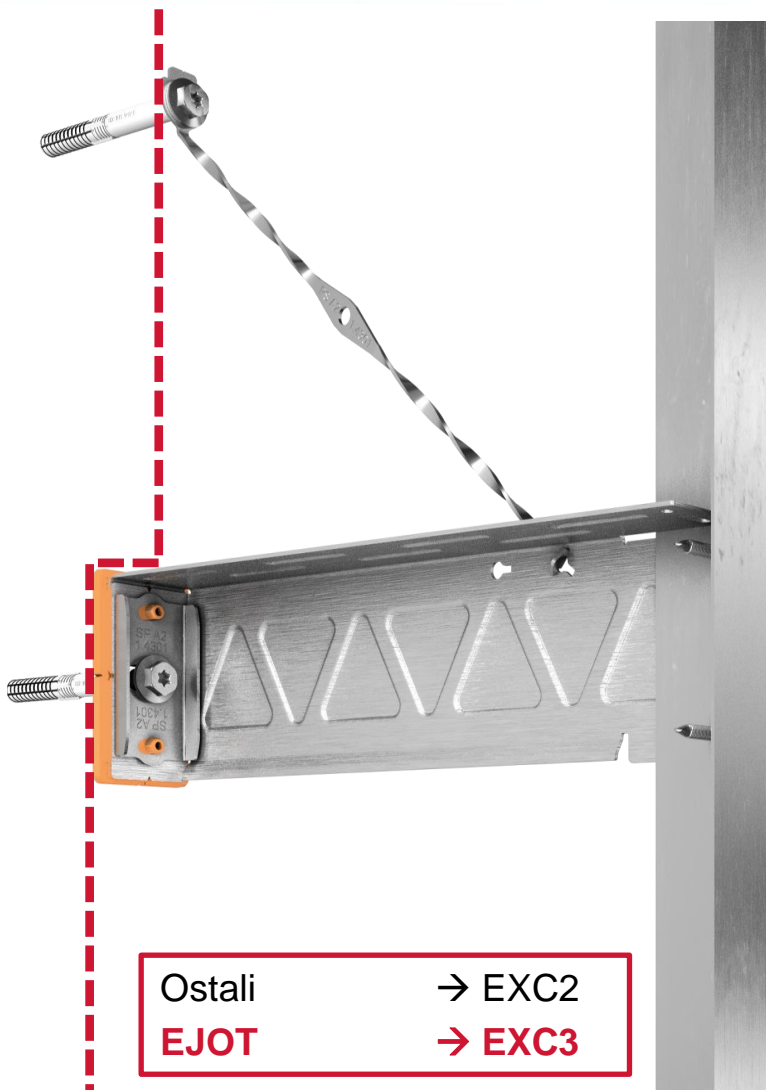
RADIONIČKA DOKUMENTACIJA

 Izvođači / Radionica (Tvornica)

 Precizna razrada svakog elementa
fasade



FUNKTIONALNOST – Potkonstrukcija _ Certifikacija



Ostali
EJOT → EXC2
→ EXC3



Approval body for construction products and types of construction
Bautechnisches Prüfamt
An institution established by the Federal and Laender Governments



Designated according to Article 29 of Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment)

European Technical Assessment

ETA-10/0305
of 6 December 2017

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

EJOT SDF 10V and EJOT SDF 10H

Product family to which the construction product belongs

Plastic anchor for multiple use in concrete and masonry for non-structural applications

Manufacturer

EJOT Baubefestigungen GmbH
In der Stockwiese 35
57334 Bad Laasphe
DEUTSCHLAND

Manufacturing plant

EJOT Herstellwerk 1, 2, 3 und 4

This European Technical Assessment contains

19 pages including 3 annexes which form an integral part of this assessment

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

ETAG 020, edition March 2012, used as EAD according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011.

Deutsches Institut für Bautechnik
Kolonnenstraße 30 B | 10829 Berlin | GERMANY | Phone: +49 30 78730-0 | Fax: +49 30 78730-320 | Email: dibt@dibt.de | www.dibt.de

248485.17

8.06.04-234/17

Harmonisierte Norm EN 1090-1:2012	Art / Ausführungsklasse des Bauproduktes Tragwerke und Bauteile aus Stahl und Aluminium bis EXC4 nach EN 1090-2 und EN 1090-3	Deklarationsmethode 1, 2 und 3b nach Tabelle A.1 der EN 1090-1
---	--	--




Zertifikat der Konformität

der
werkseigenen Produktionskontrolle (WPK)
0531 – CPR – 1090 – 2058

Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung - CPR) gilt dieses Zertifikat für das Bauprodukt

Tragende Stahl- und Aluminiumbauteile

Harmonisierte Norm	Art / Ausführungsklasse des Bauproduktes	Deklarationsmethode
EN 1090-1:2012	Tragwerke und Bauteile aus Stahl und Aluminium bis EXC4 nach EN 1090-2 und EN 1090-3	1, 2 und 3b nach Tabelle A.1 der EN 1090-1

hergestellt durch:

EJOT Austria GmbH & Co KG
Grazier Vorstadt 146
8570 Voitsberg, Österreich

Die Notifizierte Stelle, TÜV SÜD Landesgesellschaft Österreich GmbH, Kennnummer 0531, hat die Erprobung des Werkes und der werkseigenen Produktionskontrolle, sowie die Beurteilung und Zertifizierung der werkseigenen Produktionskontrolle

Bestätigung Dieses Zertifikat bescheinigt, dass alle Vorschriften über die Bewehrung und Überprüfung der Leistungsbedürftigkeit beschrieben im Anhang ZA der harmonisierten Norm

EN 1090-1:2012

entsprechend System 2+ angewendet werden und dass die werkseigene Produktionskontrolle alle darin vorgeschriebenen Anforderungen erfüllt.

Gültigkeitsbeginn (Tag der Erstaussstellung) 28.04.2017

Zertifikatsgültigkeit bis 28.04.2018

Bemerkungen Mit geltendes Dokument ist der Ausstellungs-Nr.: T20000831-14644

Ausstellungsdatum Wien, 15.05.2017



Tel: +43 (0) 7199 20 26 0
Fax: +43 (0) 7199 20 26 17

ZERTIFIKAT ♦ CERTIFICATE ♦ 証書 ♦ CERTIFICADO ♦ CERTIFICAT



DoP



Morrison
Hershfield

&
Passivhaus
Institut



IMS
Beograd



Declaration of Performance
 in accordance with Construction Products Regulations (EU) No. 305/2011
 EN 1090-1: 2012
 Nr. EJOT Austria 006-001-1050-2018

Manufacturer: **EJOT Austria GmbH & Co KG**
 A-8570 Volzberg
 Grazer Vorstadt 146

hereby certifies that the structural parts made of steel and aluminium:

No.	Key characteristics	Performance Harmonised Technical Specification
1.	Product description:	Sub-structure for facade elements
2.	Component designation:	Wall console, extruded profiles, clips, profile mouldings, brackets (aluminium, steel and stainless steel), connection elements
3.	Notes on use:	Sub-structure ventilated facades
4.	Year of manufacture:	2017
5.	Execution standard:	EN 1090-2 (steel), EN 1090-3 (aluminium)
6.	Geometric tolerances:	According to EN 1090-2 (steel), according to EN 1090-3 (aluminium)
7.	Fracture toughness:	NPD
8.	Weldability:	EN AW 6063 T66, EN AW 6060 T66 according to EN 1011-4 and EN 1999-1-1, 1.4301, 1.4404 according to EN 10088
9.	Fire behaviour:	Material classified in class A1
10.	Fire resistance:	NPD
11.	Release of cadmium:	NPD
12.	Release of radioactivity:	NPD
13.	Durability:	Aluminium: Untreated or anodised according to ISO 7599; Powder-coated according to EN 12206-1; Steel: strip galvanised according to EN 10346 or stainless steel A2, A4, A5
14.	Load carrying capacity:	NPD
15.	Fatigue resistance:	NPD
16.	Calculation:	According to EN 1999 and EN 1993 see pre-measurement or external pre-measurement
17.	Production:	According to component specification and EN 1090-2, EN 1090-3
18.	Execution class:	EXC1, EXC2 and EXC3, EXC4 optional on request
19.	Assembly:	NPD

comply with the following rules and regulations:
 • **Harmonised specification:** EN 1090-1: 2012 Execution of steel structures and aluminium structures (Conformity proof procedure for structural components)

Number of the EC certificate for in-house production control:
 0531-CPR-1090-2058

Examining agency: No. 0531 TÜV SÜD Landesgesellschaft Österreich GmbH
 Arsenal, Objekt 207, 1030 Wien

Technical documentation is available according to the standards of EN 1090-2 and EN 1090-3.
 EJOT Austria GmbH & Co KG
 Grazer Vorstadt 146
 A-8570 Volzberg

The contents of this declaration is in accordance with the contents ZA 3.2 of EN 1090-1 and EN 1090-2

Geschäftsnetz: D-8750 Volzberg, Grazer Vorstadt 146, FN 1840268 LG Graz.
 UID-Nr. ATU 47248007, AR-Nr.: 12050
 Konzernleiter: EJOT AUSTRIA Verwaltungs GmbH
 Geschäftsführer: Jürgen Heiner – Jürgen Heiner

EJOT Crossfix System Thermal Analysis

Certificate
 Certified Passive House component
 for cool, temperate climate, valid until 31.12.2018

Category: **Facade anchor**
 Manufacturer: **EJOT AUSTRIA GmbH & Co KG**
 8570 Volzberg, AUSTRIA
 Product name: **EJOT Wandwinkelstütze**

Passive House Institute
 Dr. Wolfgang Feist
 64283 Darmstadt
 GERMANY

The following criteria were used in awarding this certificate:

Efficiency Criterion
 In a typical application*, the construction fulfills the requirements of
 $Eff_{fa} \leq 0,200 \text{ W/(KqK)}$

Comfort Criterion
 The inner surface must be warm enough to prevent mould as well as uncomfortable down-draught and radiation losses.
 $\theta_{s,min} \geq 17^\circ\text{C}$

Thermal data of the certified component

EJOT Wandwinkelstütze	thermal bridge coefficient χ [W/K]	minimum inner surface temperature $\theta_{s,min}$ [°C]
Fixed point	0.0098	19.37
Sliding point	0.0095	19.37

* The criterion has been validated with a representative facade of a school building

www.passivehouse.com 1075fa03

cool, temperate climate

CERTIFIED COMPONENT
 Passive House Institute

Beuglaubige Übersetzung aus der serbischen Sprache
DAS INSTITUT FÜR MATERIALFORSCHUNG AG, BE
 (INSTITUT IMS AG)
 Zentrales Laboratorium für Materialforschung
 Laboratorium für Wärmetechnik und Brandschutz
 Belgrad, Vojvode Mišića 43

PRÜFERBERICHT
 GFT-5994/18-OPŽ

Prüfgegenstand: Prüfung der Stabilität in den Bedingungen eines realen (standardisierten) Brandes (EJOT CROSS -I- FIX Wandkonsolen für vorgehängte gelüftete Fassaden, als den grundlegenden Fassadentragelement.

Bestellernummer: EJOT Verbindungstechnik GmbH (Technika spajanja d.o.o.)
 Autoput za Novi Sad 296x
 11080 Belgrad

Angebot: Angebot Nr.: 41-9926 vom 24.08.2018

Inhalt: Der Bericht hat 6 (sechs) Seiten
 Der Anhang zum Bericht: 2 (zwei) Blätter

Berichtgeneriert am: Belgrad, am 13. August 2018

Berichterstellerin: Milica Mirković Marjanović, M.Bau.Ing. s.e.h.
 Prüfungsleiter: Dragiša Ivanišević, Dipl.Ing. Masch. e.h.

3. BEFUND
 Befund auf Grund der Prüfergebnisse, im Einklang mit den allgemeinen Bedingungen des SRPS Standards ISO 834-1 (2015):
Bei der Prüfung der Stabilität in den Bedingungen eines realen Brandes der Muster: EJOT CROSS -I- FIX Wandkonsolen für vorgehängte gelüftete Fassaden, als den grundlegenden Fassadentragelement, haben diese die Stabilität bei der Aussetzung einem realen Brand im Dauer von 90 Min, (1,5 Stunde) beibehalten

Anmerkung:
 1. Der Prüfbericht darf, außer als das Ganze, ohne Zustimmung des Laboratoriums für Materialprüfung, nicht vervielfältigt werden.
 2. Die Kopie dieses Berichtes stellt keine offizielle Urkunde dar.
 3. Der Prüfbericht ist nur als das Ganze, mit Originalstempel, gültig.
 4. Die dargelegten Ergebnisse, sowie die Beurteilung, beziehen sich ausschließlich auf die untersuchten Muster. Es wird keine Verantwortung hinsichtlich Auswahl der Muster übernommen, außer im Falle, wenn dies unter unserer direkten Aufsicht durchgeführt wurde.

Befund auf Grund der Prüfergebnisse, im Einklang mit den allgemeinen Bedingungen des SRPS Standards ISO 834-1 (2015):
Bei der Prüfung der Stabilität in den Bedingungen eines realen Brandes der Muster: EJOT CROSS -I- FIX Wandkonsolen für vorgehängte gelüftete Fassaden, als den grundlegenden Fassadentragelement, haben diese die Stabilität bei der Aussetzung einem realen Brand im Dauer von 90 Min, (1,5 Stunde) beibehalten

EPD



UMWELT-PRODUKTDEKLARATION
nach ISO 14025 und EN 15804

Hersteller: EJOT Baubefestigungen GmbH
Produkt: EJOT CROSSFIX Fassadensystem
Hersteller: EJOT Austria GmbH & Co KG

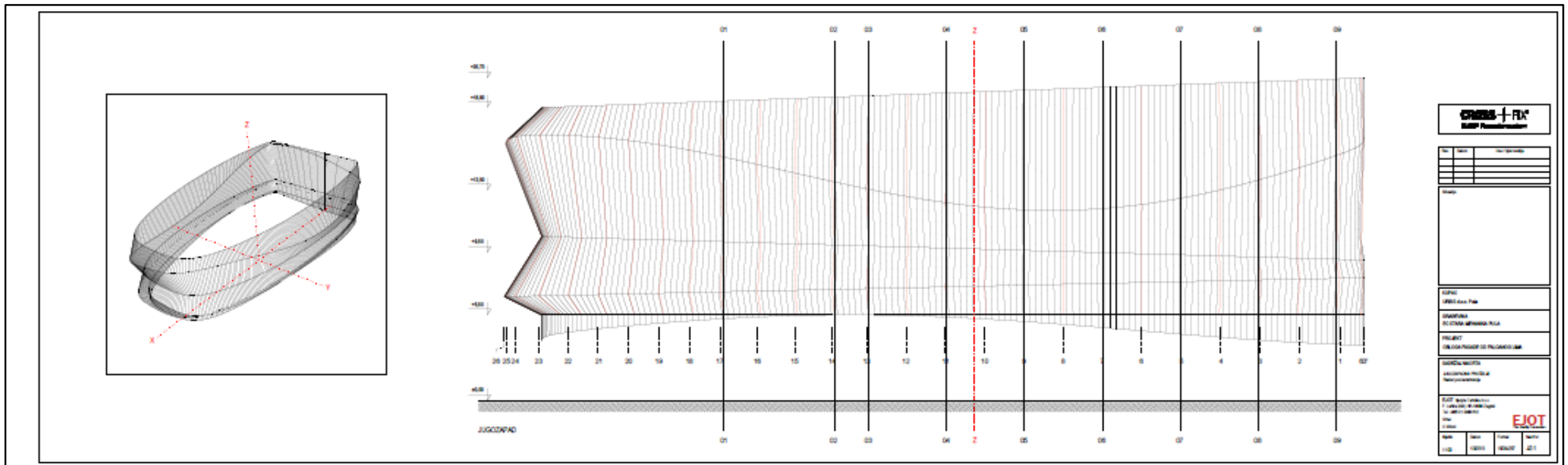
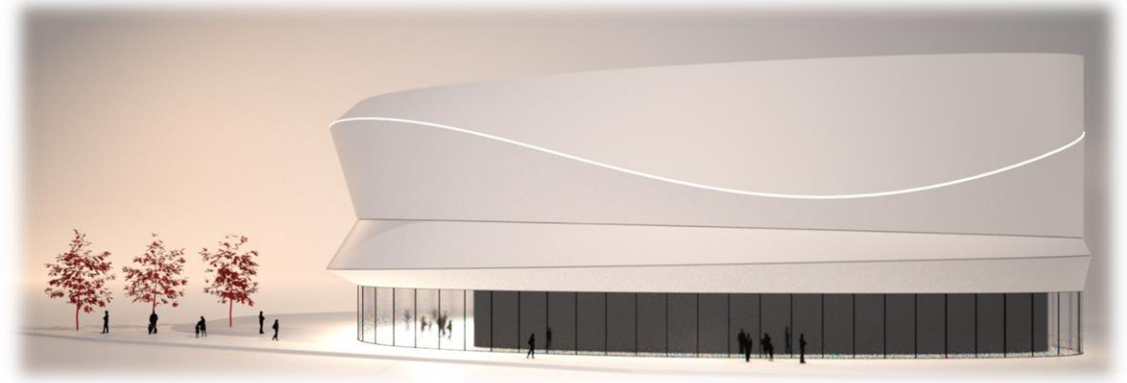
CROSS-FIX
EJOT Fassadensystem

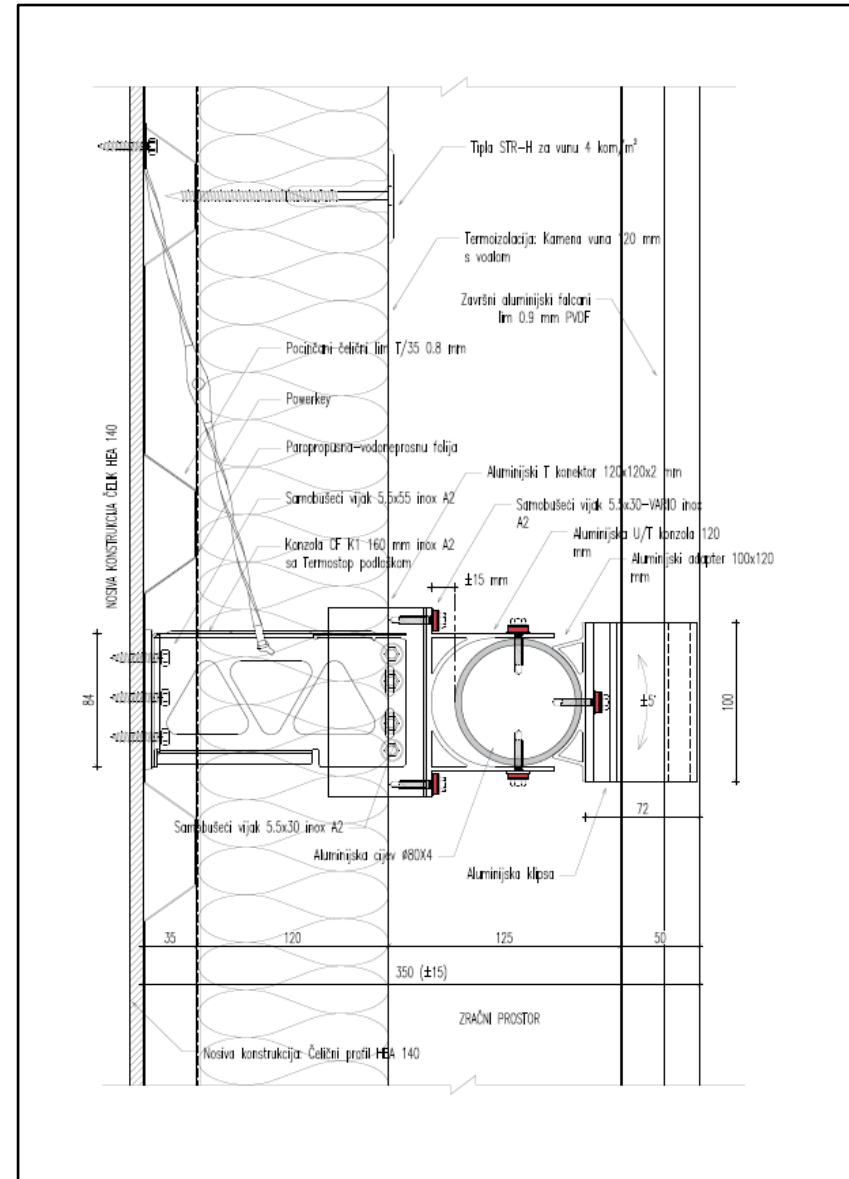
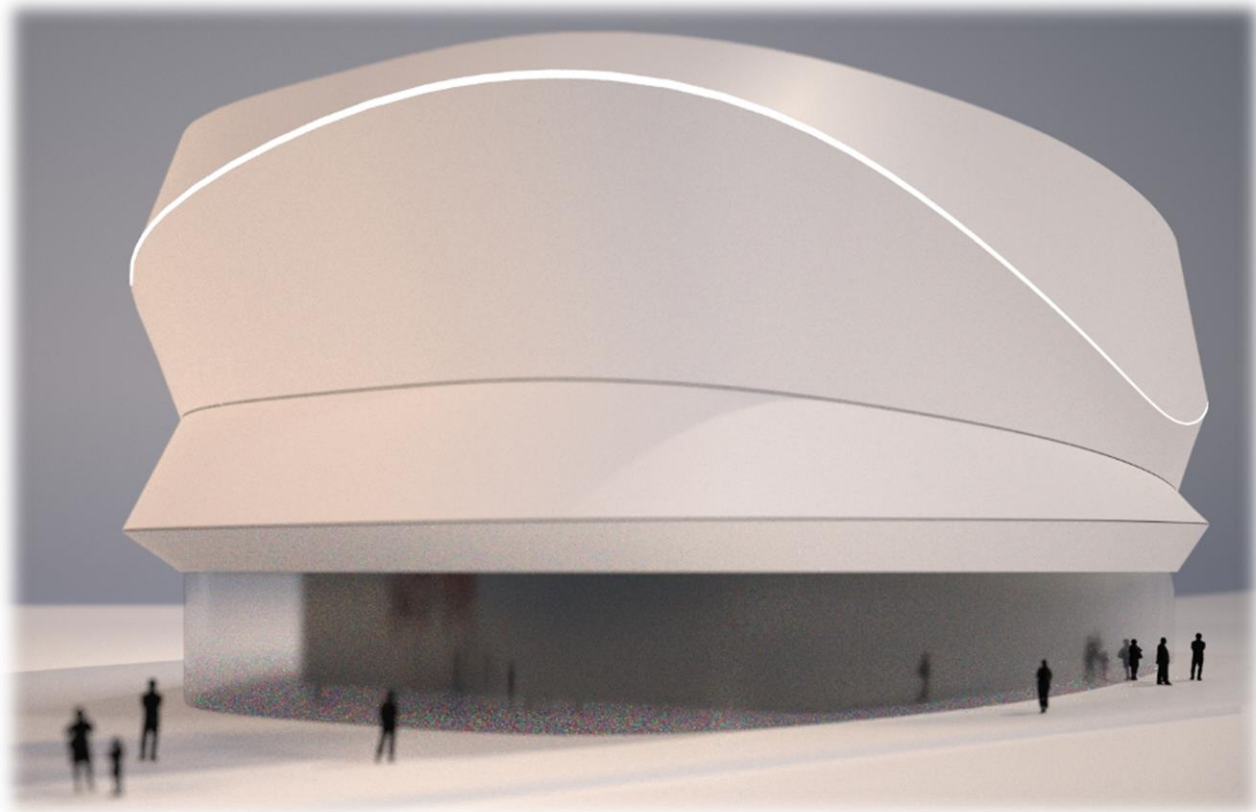
ANFORDERUNGEN		WERT		EINHEIT	
1	Produkt	1000	kg	1	kg
2	Produkt	1000	kg	1	kg
3	Produkt	1000	kg	1	kg
4	Produkt	1000	kg	1	kg
5	Produkt	1000	kg	1	kg
6	Produkt	1000	kg	1	kg
7	Produkt	1000	kg	1	kg
8	Produkt	1000	kg	1	kg
9	Produkt	1000	kg	1	kg
10	Produkt	1000	kg	1	kg
11	Produkt	1000	kg	1	kg
12	Produkt	1000	kg	1	kg
13	Produkt	1000	kg	1	kg
14	Produkt	1000	kg	1	kg
15	Produkt	1000	kg	1	kg
16	Produkt	1000	kg	1	kg
17	Produkt	1000	kg	1	kg
18	Produkt	1000	kg	1	kg
19	Produkt	1000	kg	1	kg
20	Produkt	1000	kg	1	kg

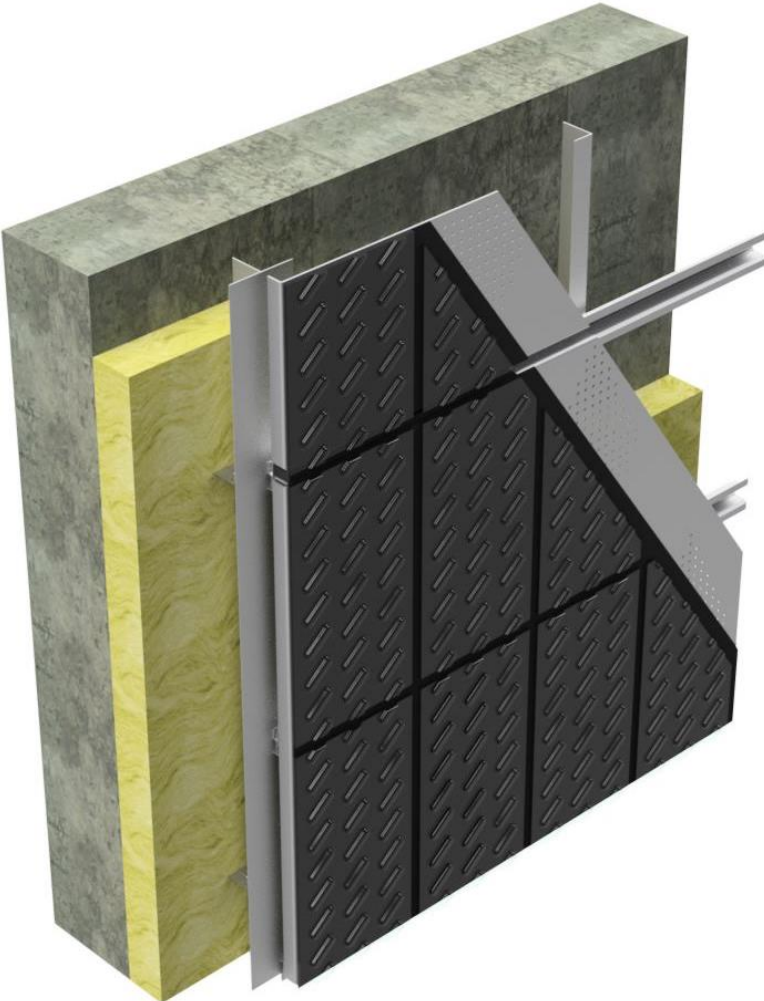


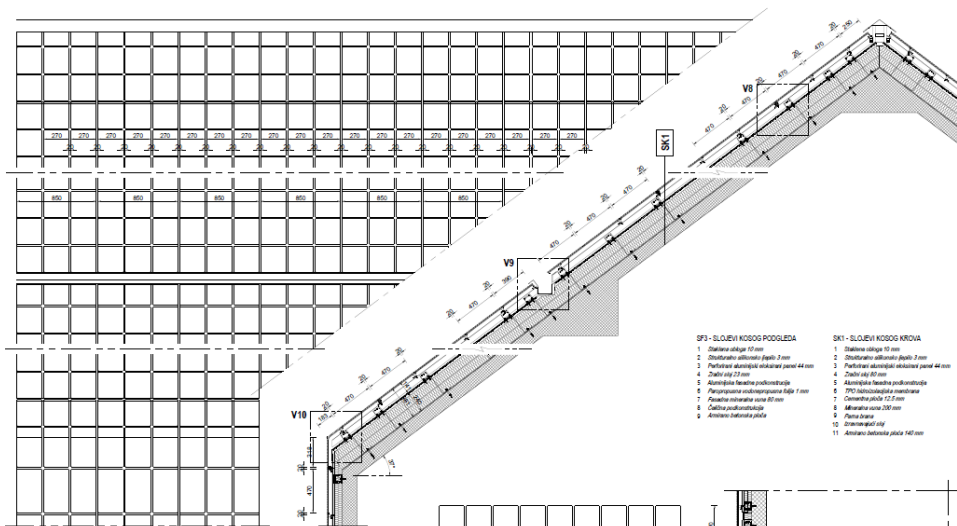
🔧 „CUSTOM-MADE” RJEŠENJA

🔧 Pronalazak tehničkog rješenja za svaki projektni zadatak!



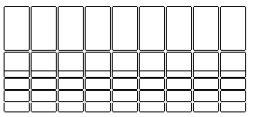






SK1 - Složeni kosog krova - splošni tlocrt

- SF3 - Složeni kosog podgleđa**
1. Osnovni sloj 10 cm
 2. Složeni sloj 20 cm
 3. Ploščica 40x40x10 cm
 4. Zračni sloj 20 mm
 5. Akustična izolacija 100 mm
 6. Paropropusna vodovparna pregrada 1 mm
 7. Izolacija 100 mm
 8. Čelikova podkonstrukcija 80 mm
 9. Armirani betonski ploče
- SK1 - Složeni kosog krova**
1. Osnovni sloj 10 cm
 2. Složeni sloj 20 cm
 3. Ploščica 40x40x10 cm
 4. Zračni sloj 20 mm
 5. Akustična izolacija 100 mm
 6. Paropropusna vodovparna pregrada 1 mm
 7. Izolacija 100 mm
 8. Metalna osovina 30 mm
 9. Metalna osovina
 10. Osnovni sloj
 11. Armirani betonski ploče 140 mm



SF4 - Složeni kosog podgleđa

Naomene:

Rev.	Datum	Ime/Osoba

Skica

R.K.45.00 - A.K. 153.00 n.m.a.

Investitor:
GRAD ZAGREB, Trg Štefana Račića 1, Zagreb

GRUPE:
GALERIJA GRADICE - rekonstrukcija

LOKACIJA:
ZAGREB, Gornji Grad, Trg Gradac 2 - k.c. 1609
k.s. 5074

Faza projekta:
GLAVNI PROJEKT

Glavni projektant:
CAPITAL ING d.o.o., Kavarska cesta 6, Zagreb
Džurina Miroslav, dipl.ing. arh., inž. inž. arh. A4-212

Projekt:
PROJEKT STRUKTURNE KONSTRUKCIJE
PROJEKCIJA

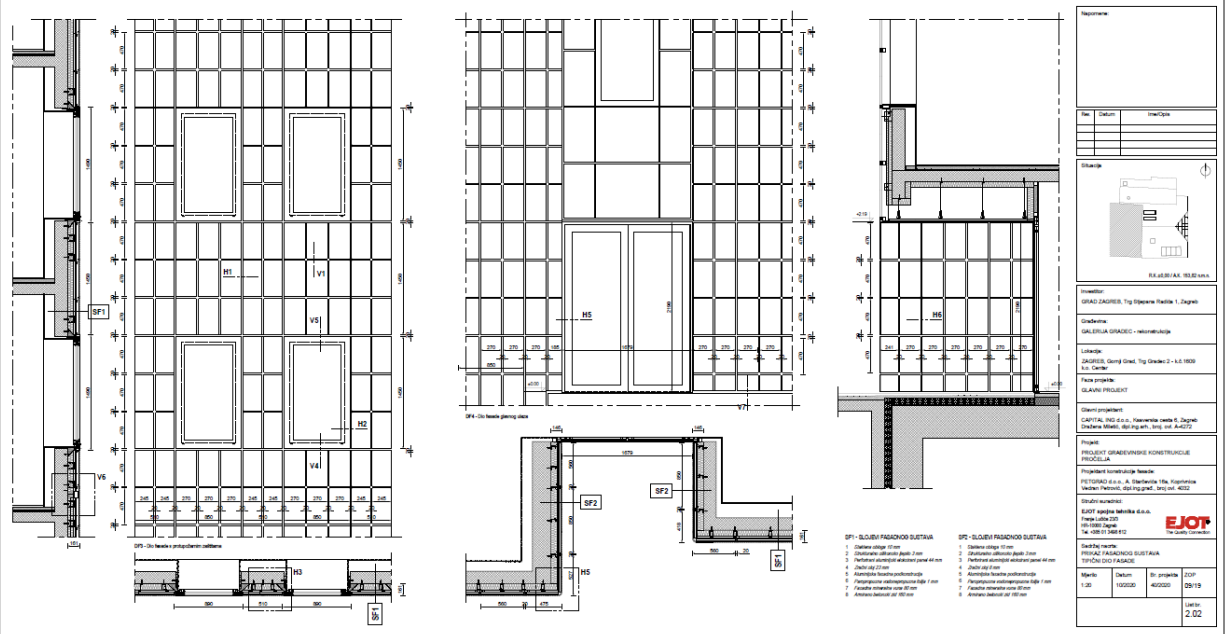
Projektant konstrukcije nosive:
PETRINJAC d.o.o., A. Starčevića 15a, Ikarionica
Vojkovičeva ulica, 10000 Zagreb, inž.ing. arh. inž. inž. arh. 4022

DRUGI SURADNICI:
EJOT spolna tehnika d.o.o.
Pavle Lajčić 233
HR-10000 Zagreb
Tel: +385 (0) 1 368 812

Šifra projekta:
PRIKAZ FASADNOG SUSTAVA
OBLOGA KOSOG KROVA I PODGLEĐA

Merilo	Datum	Br. projekta	ZOP
1:20	10/2020	40/2020	09/19

Urb. br. 2.03



- SF1 - Složeni fasadnog sustava**
1. Osnovni sloj 10 cm
 2. Složeni sloj 20 cm
 3. Ploščica 40x40x10 cm
 4. Zračni sloj 20 mm
 5. Akustična izolacija 100 mm
 6. Paropropusna vodovparna pregrada 1 mm
 7. Izolacija 100 mm
 8. Metalna osovina 30 mm
 9. Metalna osovina
- SF2 - Složeni fasadnog sustava**
1. Osnovni sloj 10 cm
 2. Složeni sloj 20 cm
 3. Ploščica 40x40x10 cm
 4. Zračni sloj 20 mm
 5. Akustična izolacija 100 mm
 6. Paropropusna vodovparna pregrada 1 mm
 7. Izolacija 100 mm
 8. Metalna osovina 30 mm
 9. Metalna osovina

Naomene:

Rev.	Datum	Ime/Osoba

Skica

R.K.45.00 - A.K. 153.00 n.m.a.

Investitor:
GRAD ZAGREB, Trg Štefana Račića 1, Zagreb

GRUPE:
GALERIJA GRADICE - rekonstrukcija

LOKACIJA:
ZAGREB, Gornji Grad, Trg Gradac 2 - k.c. 1609
k.s. 5074

Faza projekta:
GLAVNI PROJEKT

Glavni projektant:
CAPITAL ING d.o.o., Kavarska cesta 6, Zagreb
Džurina Miroslav, dipl.ing. arh., inž. inž. arh. A4-212

Projekt:
PROJEKT STRUKTURNE KONSTRUKCIJE
PROJEKCIJA

Projektant konstrukcije nosive:
PETRINJAC d.o.o., A. Starčevića 15a, Ikarionica
Vojkovičeva ulica, 10000 Zagreb, inž.ing. arh. inž. inž. arh. 4022

DRUGI SURADNICI:
EJOT spolna tehnika d.o.o.
Pavle Lajčić 233
HR-10000 Zagreb

Šifra projekta:
PRIKAZ FASADNOG SUSTAVA
TEHNOLOŠKI RJEŠENJE

Merilo	Datum	Br. projekta	ZOP
1:20	10/2020	40/2020	09/19

Urb. br. 2.02

HVALA NA POZORNOSTI!!

Nikola Hulina

e-mail. nhulina@ejot.com