

The background image shows a modern building facade with a grid system of windows and balconies. The building has a dark red brick exterior and black window frames. The balconies are made of wood and are arranged in a grid pattern. The text 'SCANROC® Grid System/ Ventilated Facades' is overlaid on the image in white.

SCANROC® Grid System/ Ventilated Facades

Toronto 2024

SCANROC®
ventilated facades



**These are unique ventilated
facade systems made of
Concrete and Clinker
brick tiles**

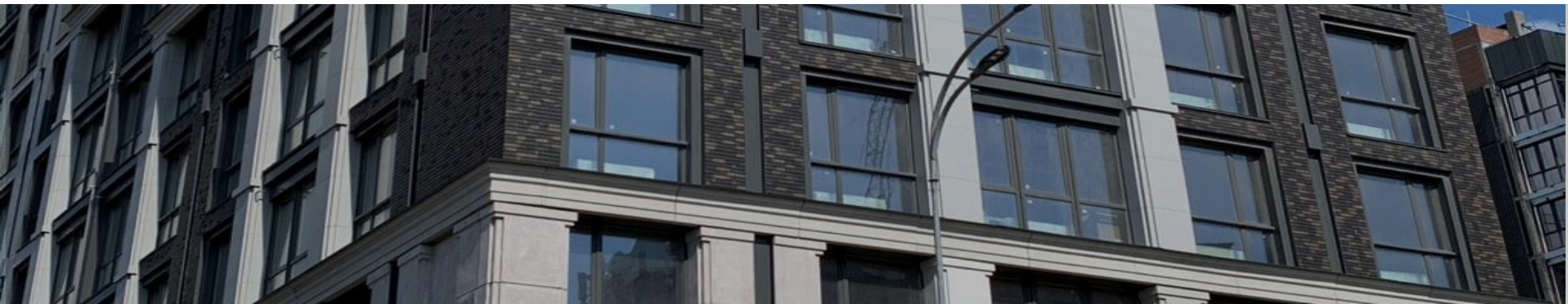


SCANROC® TECHNOLOGY

was developed in

UKRAINE

Since 1993



WORLD SALES

Produced
more than
5 000 000 M2





1 000 000 m²

tiles

in EUROPE

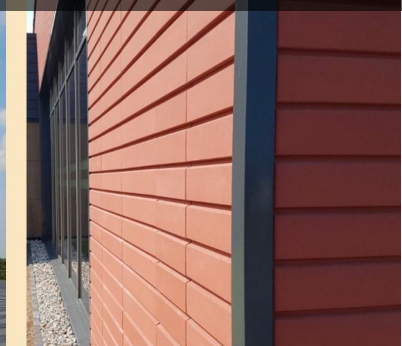
kids store

MiniBambini

kids store



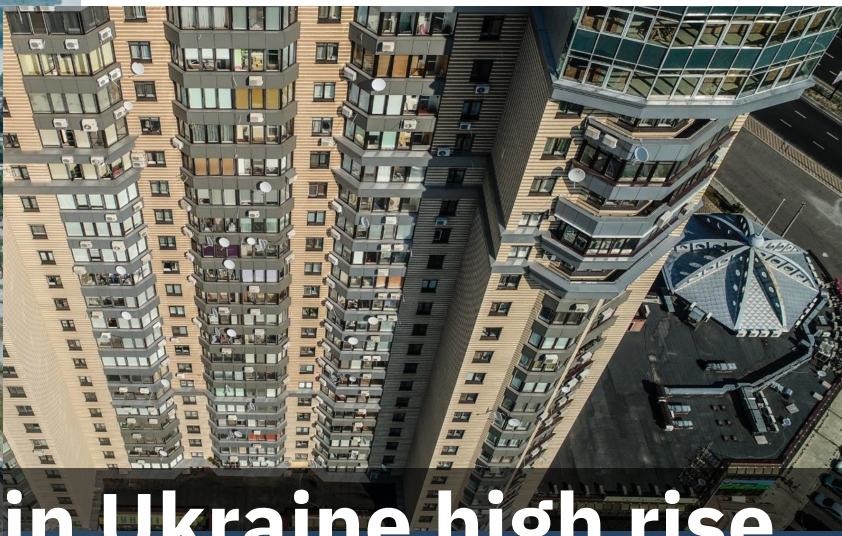
Objects in Europe





Objects in Europe





Objects in Ukraine high rise





Objects in Ukraine



Content

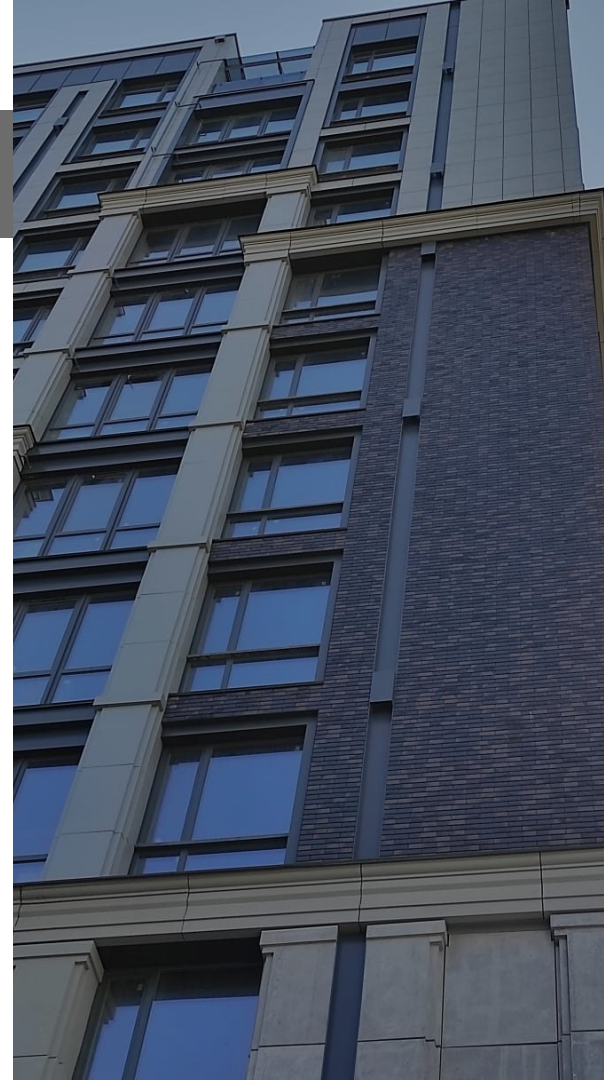
- 01** About ventilation facades
- 02 About our technology
- 03 About our product assortement
- 04 Building Energy Efficiency
- 05 Demand Flexibility and
Architecture goals
- 06 Construction benefits
- 07 Sustainability Goals



About ventilation facades

A ventilated facade is the most efficient system for solving general insulation issues in buildings and eliminating thermal bridges and condensation problems

A ventilated facade offers many advantages in terms of energy savings, acoustic insulation, moisture relief, and safeguarding the building structure

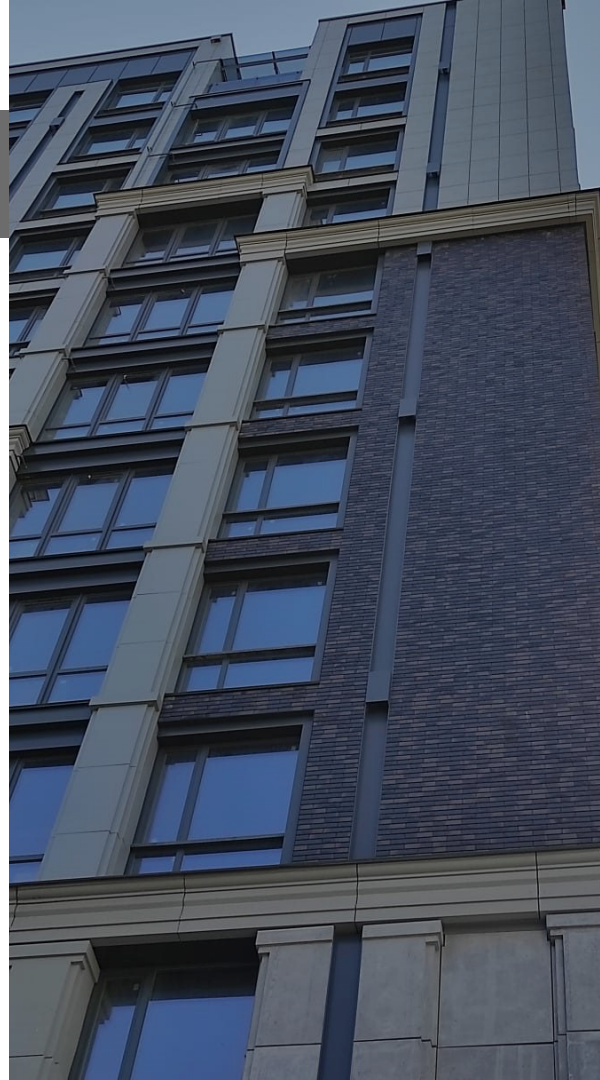


About ventilation facades

What is a ventilated facade?

A ventilated facade is a dry-installed exterior building envelope system that can be installed on new construction sites or in buildings undergoing renovation

This element provides a gap between the building's envelope and the exterior cladding. Its primary purpose is to moderate the exchange of heat, air, and light that circulates between the interior and exterior of the building



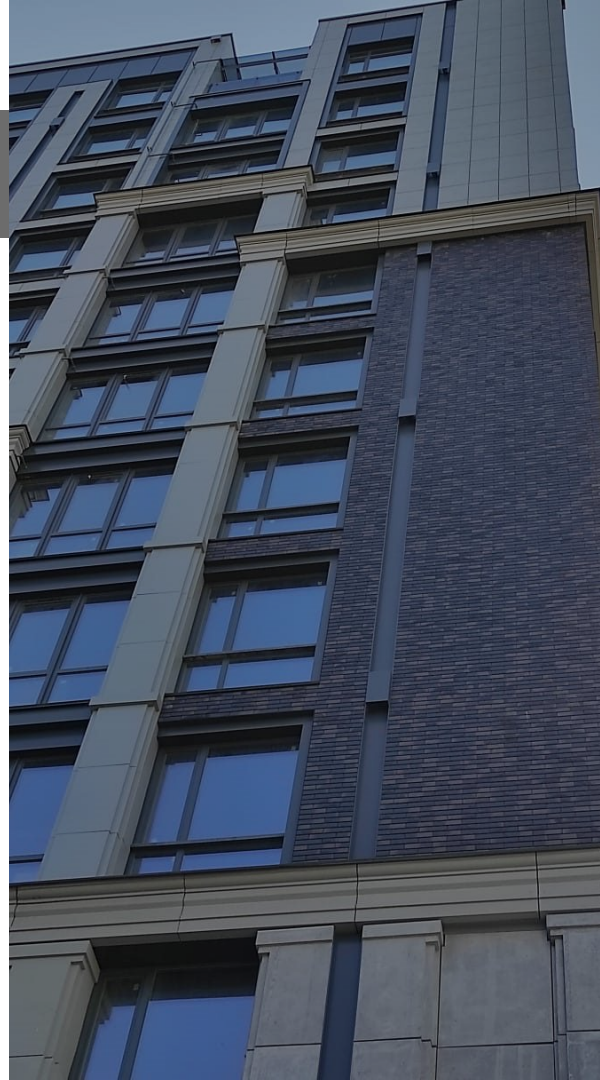
About ventilation facades

How does a ventilated facade work?

A ventilated facade promotes the convective movement of air entering the chamber between the perimeter wall and the exterior cladding. Its thermal efficiency is based on the difference between the temperature inside the chamber and the exterior

The passive insulation air gap combined with a proper wall insulation system helps save energy. When it is hot outside, this buffer zone behind the cladding system allows the hot air outside to cool off, shielding the interior of the home or structure from the thermal impact.

Likewise, in winter, this air space behind the cladding provides the same buffer zone to prevent the transmission of heat gain or loss, which creates a more energy-efficient building



Content

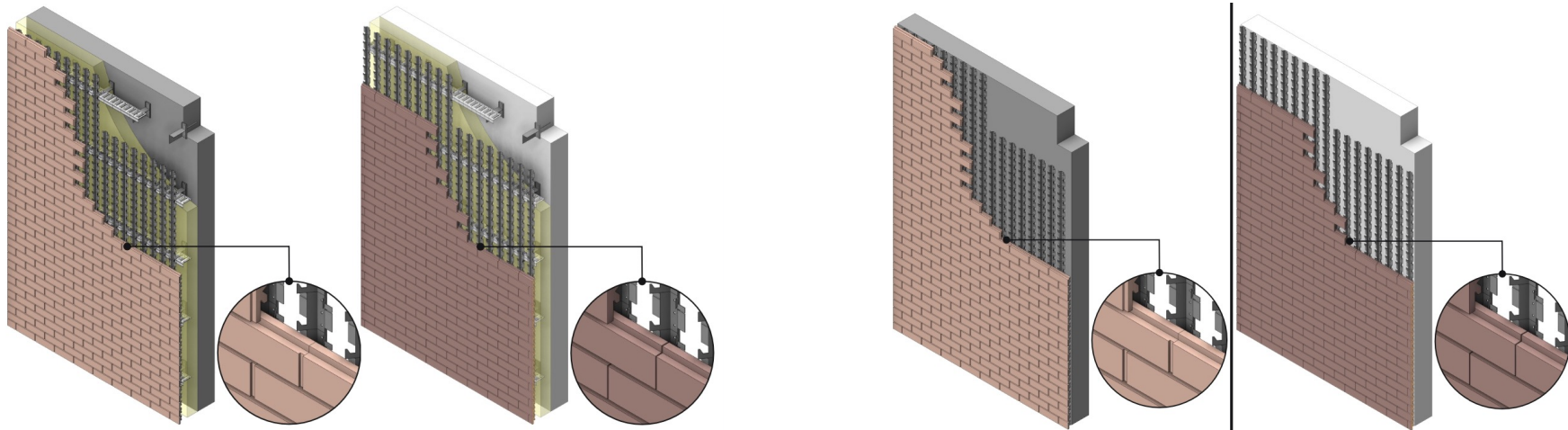
- 01** About ventilation facades
- 02** **About our technology**
- 03** About our product assortment
- 04** Building Energy Efficiency
- 05** Demand Flexibility and
Architecture goals
- 06** Construction benefits
- 07** Sustainability Goals



About our technology

How is the wall with the ventilated façade anchored?

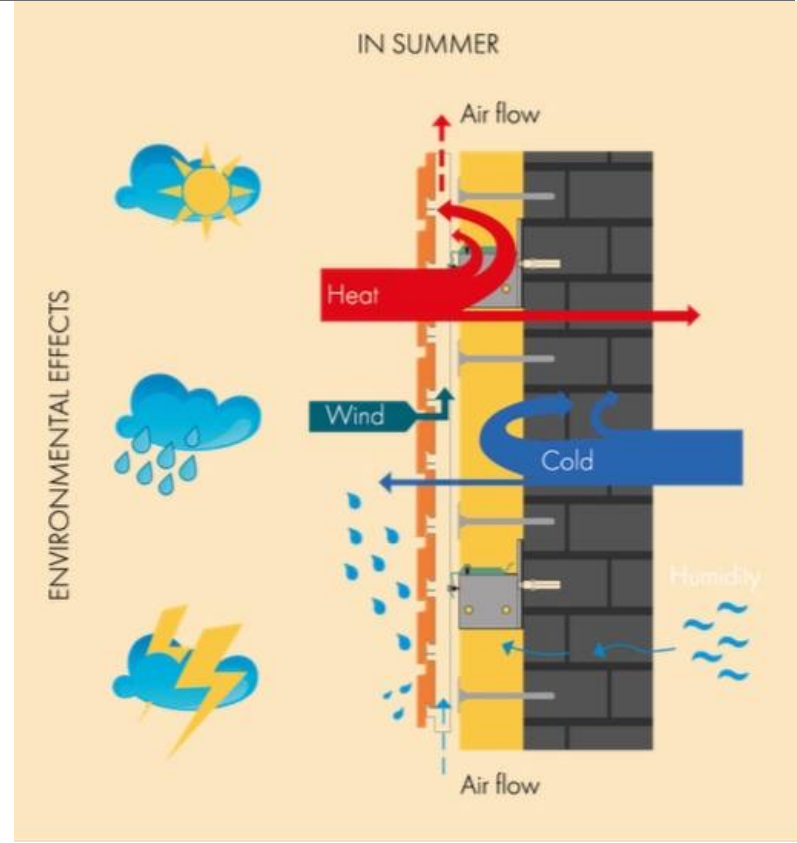
The wall that supports the structure of the ventilated façade could have an additional insulating layer or not. However, since the weight is noticeable, and the walls must bear the corresponding load of 50-55 kg/1m², the walls have to support the weight of the façade and accommodate the anchors, which will fix the facade frame



About our technology

Ventilated facade in summer

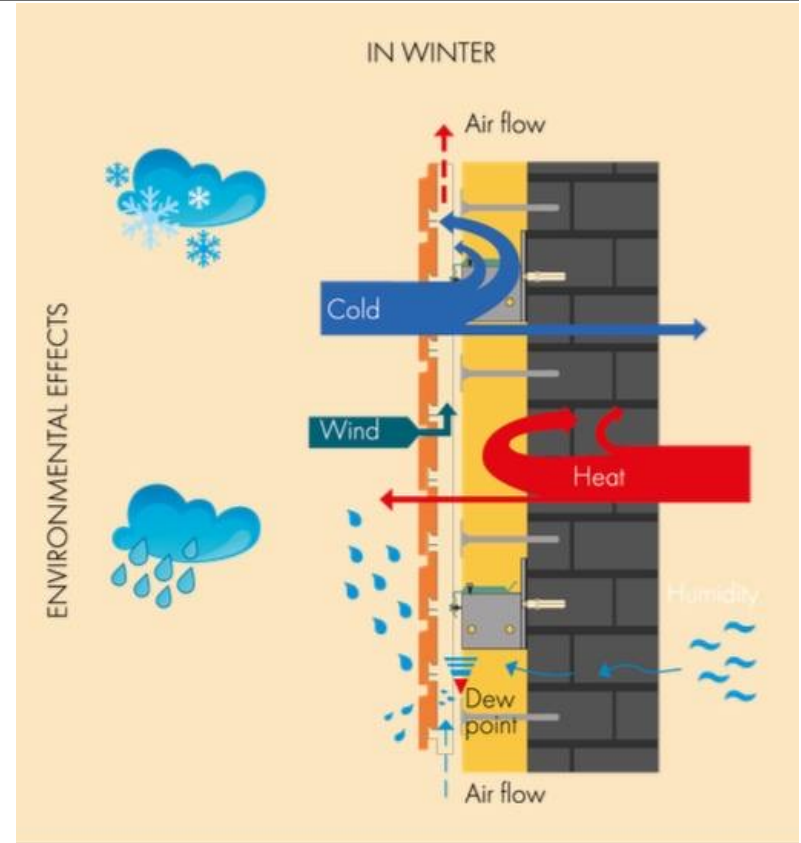
The increase in temperature inside the cavity during the summer months generates a “chimney effect” that pushes the air upwards, thus reducing the wall’s temperature facing the inside of the building. In other words, it keeps the building colder



About our technology

Ventilated facade in winter

During the cold winter months, the opening in the ventilated facade balances the wall's temperature facing the interior of the building, which reduces the risk of moisture from condensation



Content

- 01 About ventilation facades
- 02 About our technology
- 03 **About our product assortement**
- 04 Building Energy Efficiency
- 05 Demand Flexibility and
Architecture goals
- 06 Construction benefits
- 07 Sustainability Goals



The background of the image shows several concrete tiles. There are dark grey tiles, reddish-brown tiles, and light beige tiles with a pebbled texture. The tiles are arranged in a way that shows their edges and the different finishes available.

Concrete series

Classic and Delux

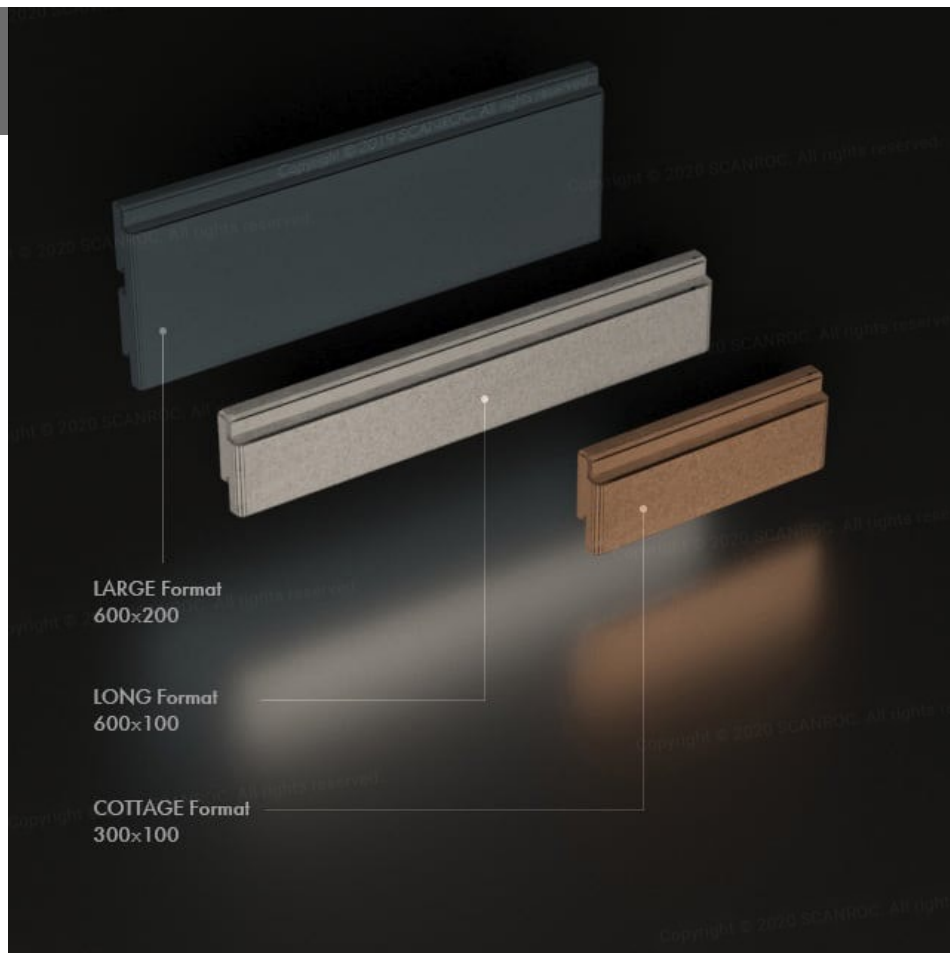
Concrete tiles

TYPES

- Classic
- Delux

FORMAT

- LARGE 600X200
- LONG 600X100
- COTTAGE 300X100



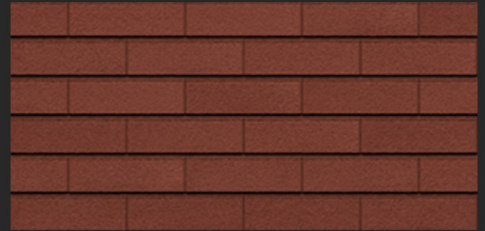
Concrete tiles Classic



CLASSIC 2



CLASSIC 3



CLASSIC 4



CLASSIC 7



CLASSIC 19



CLASSIC 24

Concrete tiles Classic



CLASSIC 28



CLASSIC 54



CLASSIC 301



CLASSIC 302



CLASSIC 303



CLASSIC 304

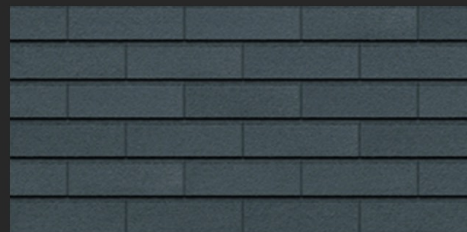
Concrete tiles Classic



CLASSIC 703



CLASSIC 711



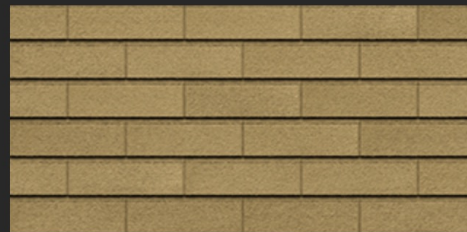
CLASSIC 712



CLASSIC 722



CLASSIC 732



CLASSIC 749

Concrete tiles Classic



CLASSIC 750



CLASSIC 754



Concrete tiles Classic

#28



#54



#712



#722



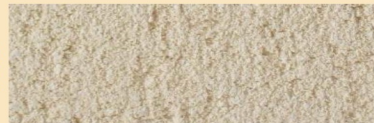
#7



#749



#703





Concrete tiles Classic



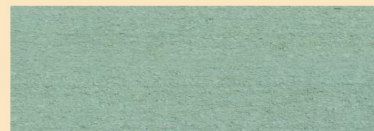
#3



#4



#19



#24



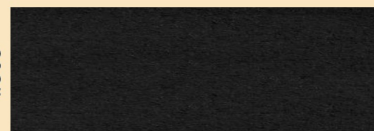
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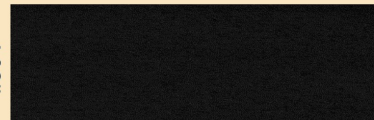
#302



#303



#304



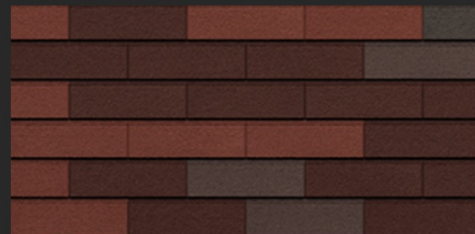
Concrete tiles Delux



DELUXE HAMBURG



DELUXE MALTA



DELUXE OLD EUROPE



DELUXE OXFORD



DELUXE PORTLAND

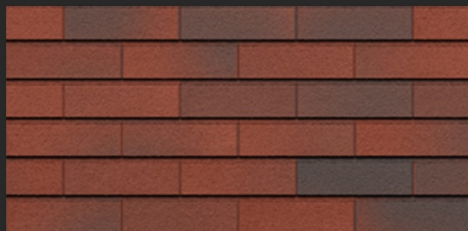


DELUXE PRAHA

Concrete tiles Delux



DELUXE BRISTOL



DELUXE BRUGGY



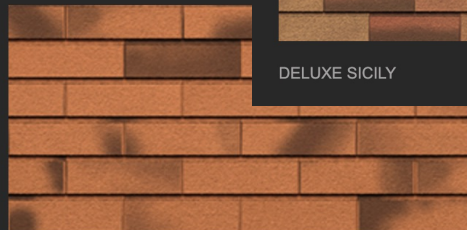
DELUXE CARIBBEAN



DELUXE CORAL LAGOON



DELUXE COTE D'AZUR



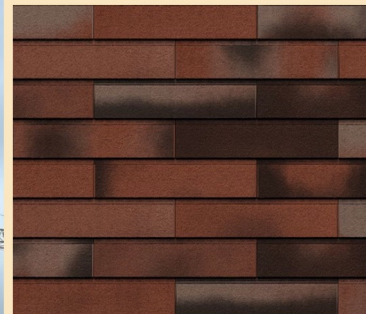
DELUXE GIZA



DELUXE SICILY



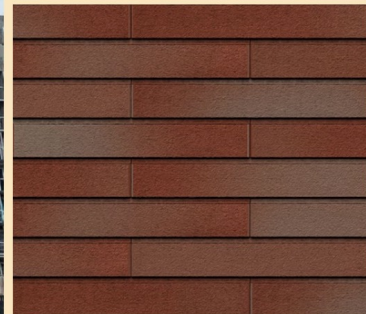
HAMBURG



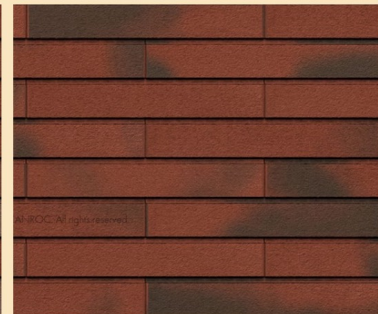
BRISTOL



OXFORD



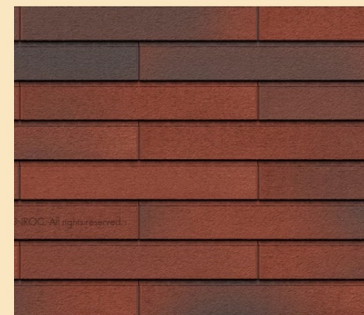
MALTA



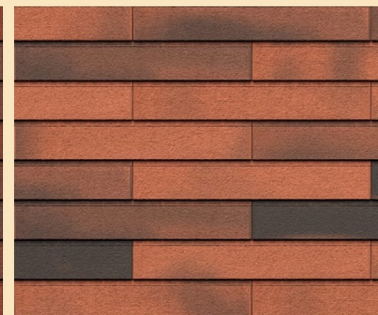
Concrete tiles Delux



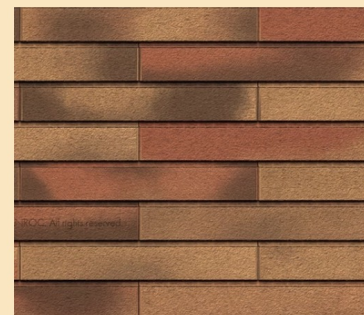
BRUGGE



CORAL LAGOON



SICILY



COTE D`AZUR



Concrete tiles Delux



Ceramic series

**Brick, Brick Delux, X-
Large**

SCANROC Clinker tiles - 3 types

KlinkerStone[®]

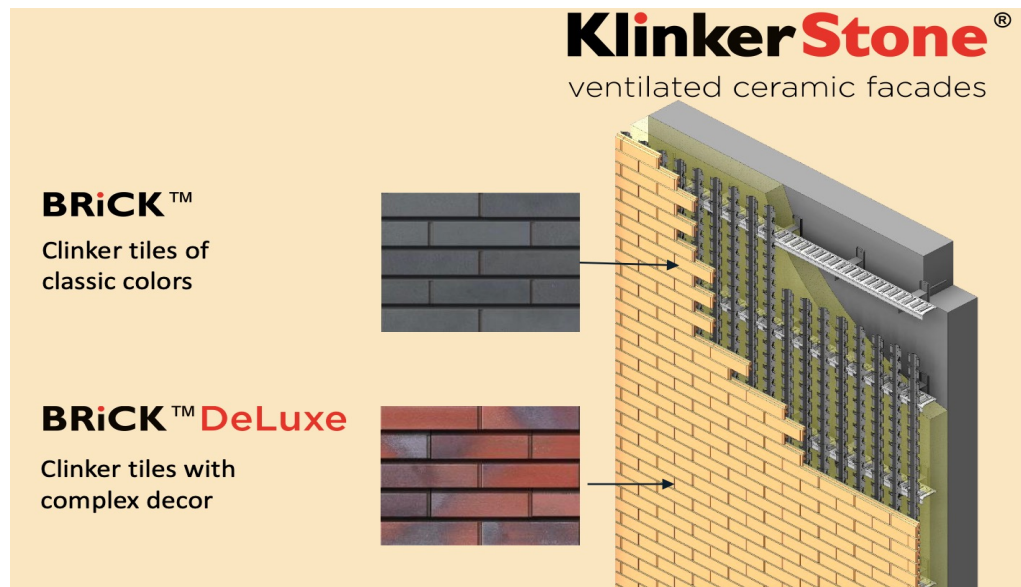
ventilated ceramic facades

BRiCK[™]

BRiCK[™] DeLuxe

X-LARGE[™]

SCANROC Clinker tiles Brick



Characteristic	Metric Format	Metric+ Format	NF Format	NF+ Format
Front surface size [mm]	215 x 65	290 x 65	240 x 71	290 x 71

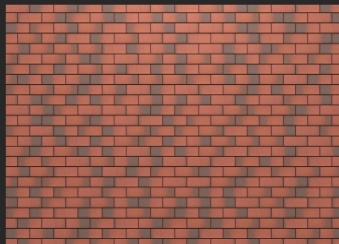
SCANROC Clinker tiles



Golden autumn



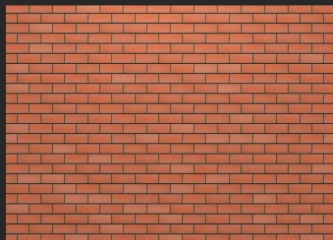
Tobacco leaf



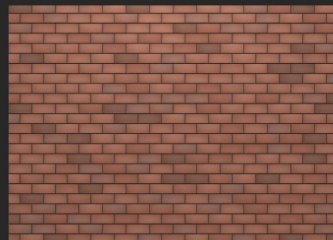
The secret garden



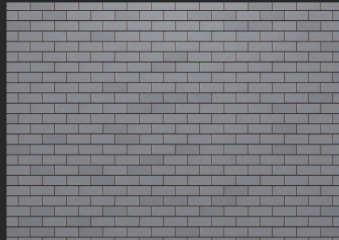
Volcanic black



Ruby flame



Tibetan flame

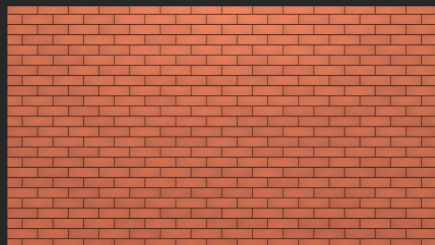


Misty morning



Mahogany dream

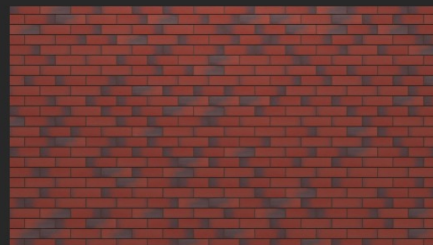
SCANROC Clinker tiles



Ruby Red



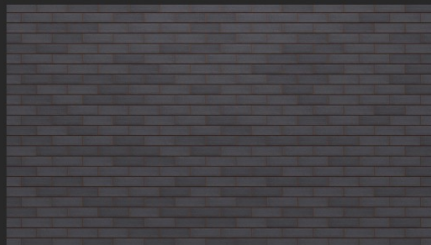
Natural Brown



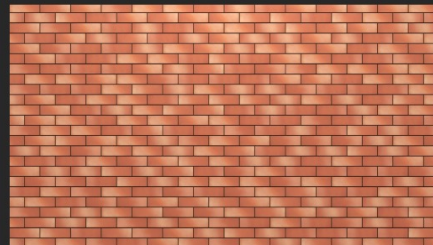
Wild Wine



The crimson island



Polar night



Sunny shore

SCANROC Clinker tiles



LF01 Castle forge



LF02 Valyria stone



LF03 Iron clay



LF07 Old cathedral



LF08 Coral star



LF09 Asteroid house

SCANROC Clinker tiles



LF16 Red zeppelin



LF17 King crimson



LF18 Obsidian shadow



LF13 Brick republic



LF14 Castle rock



LF15 Another brick

SCANROC Clinker tiles



LF04 Brick capital



LF05 Black heart



LF06 Argon wall



LF10 Maghreb fire



LF11 Tibetan flame



LF12 Old amber

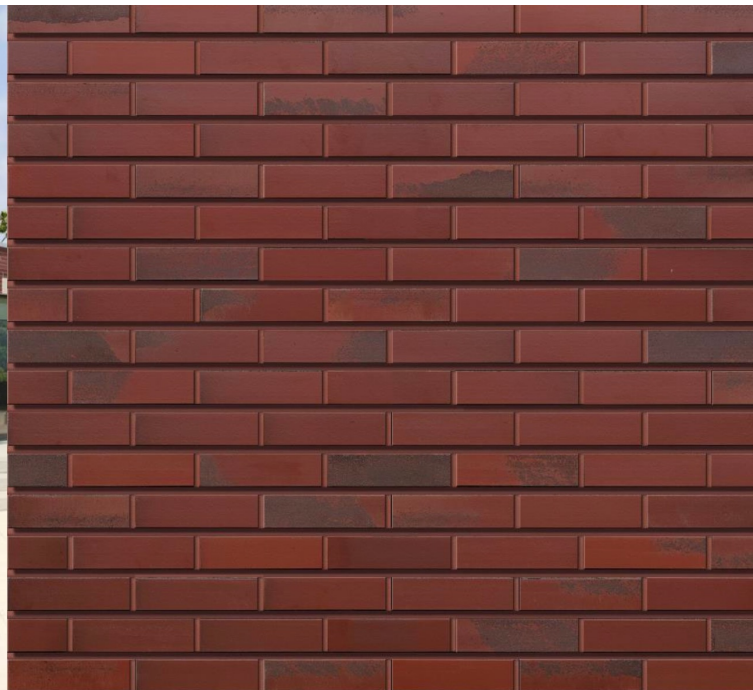
SCANROC Clinker tiles



SCANROC Clinker tiles



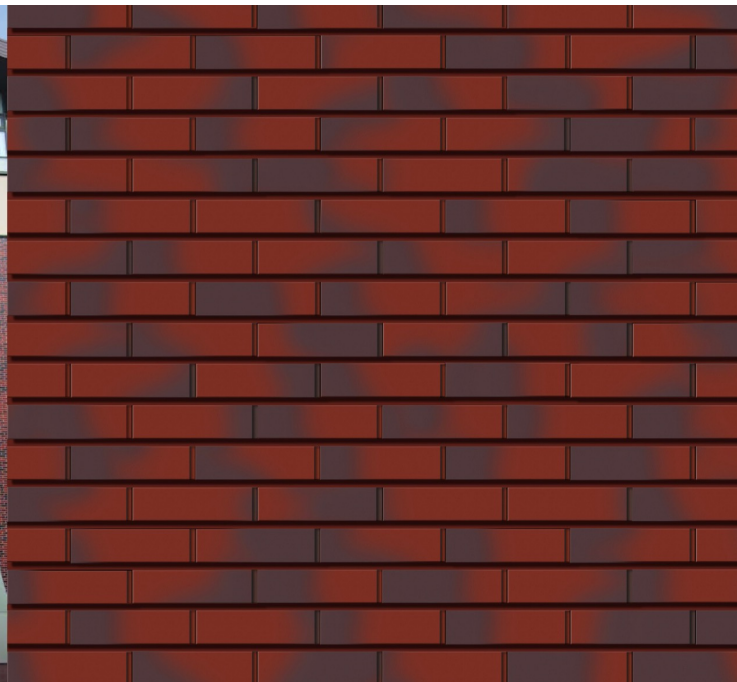
SCANROC Clinker tiles



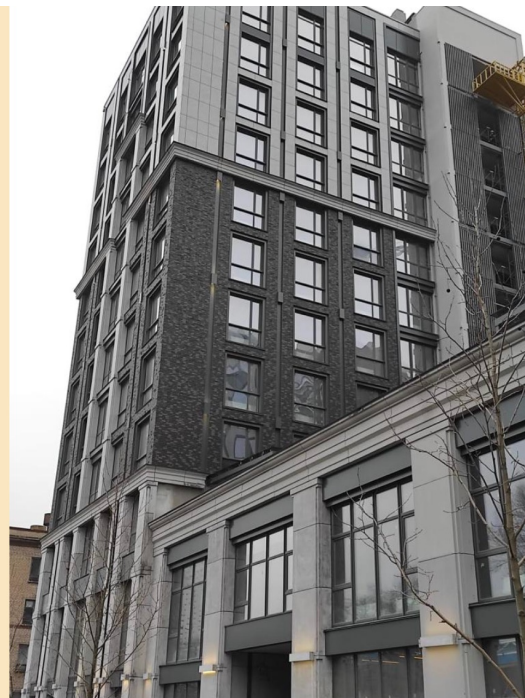
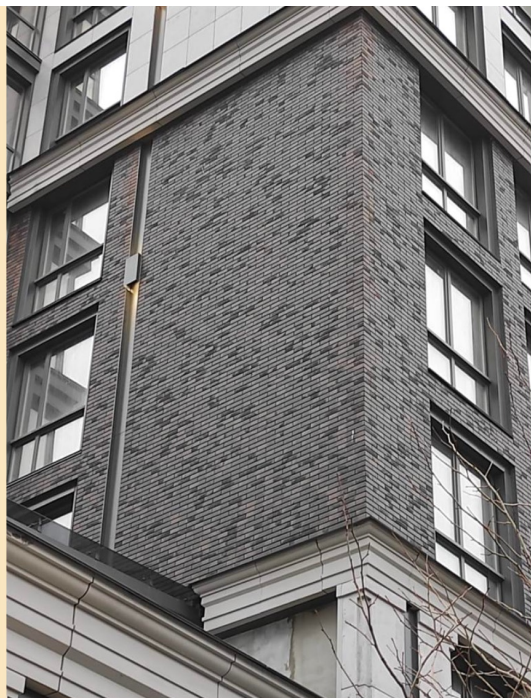
SCANROC Clinker tiles



SCANROC Clinker tiles



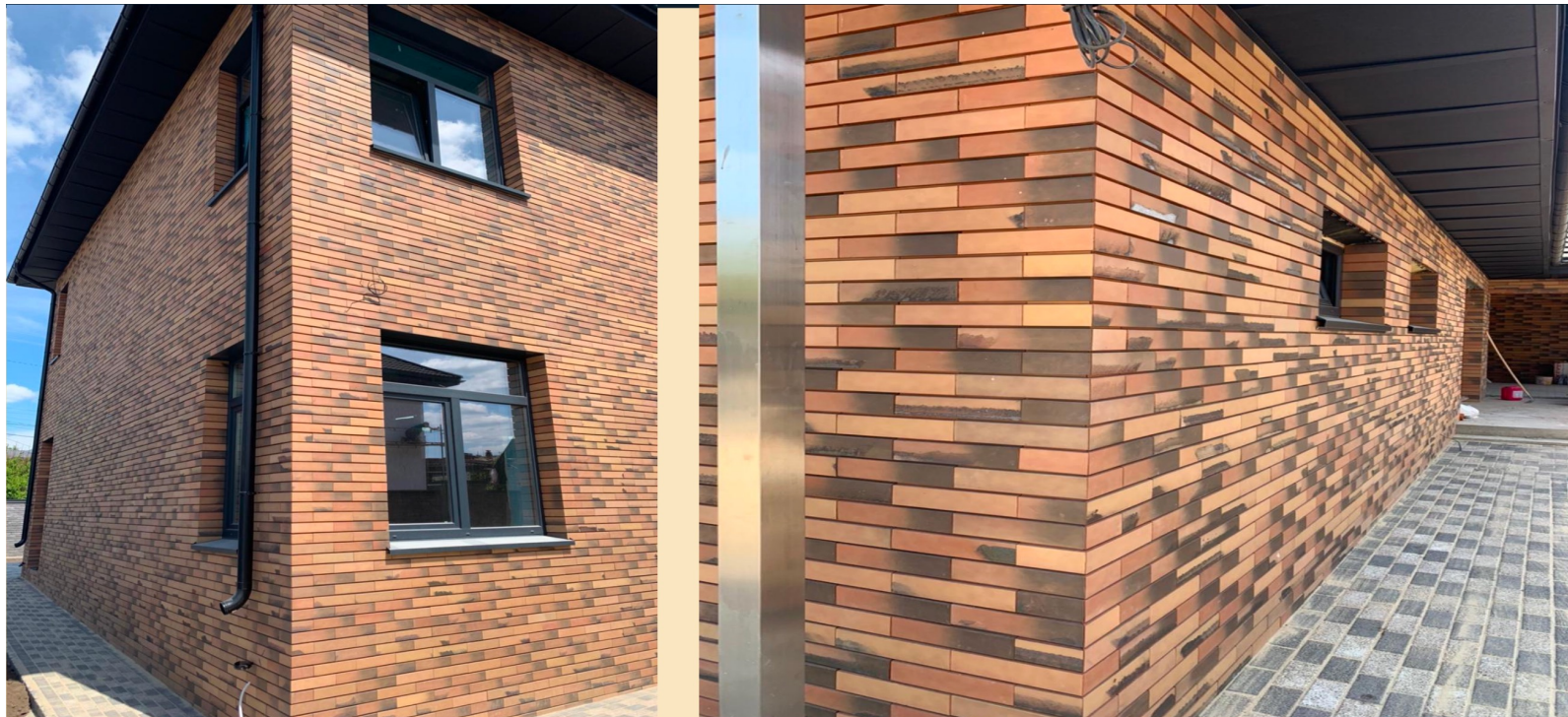
Clinker tiles - implementation



Clinker tiles - implementation



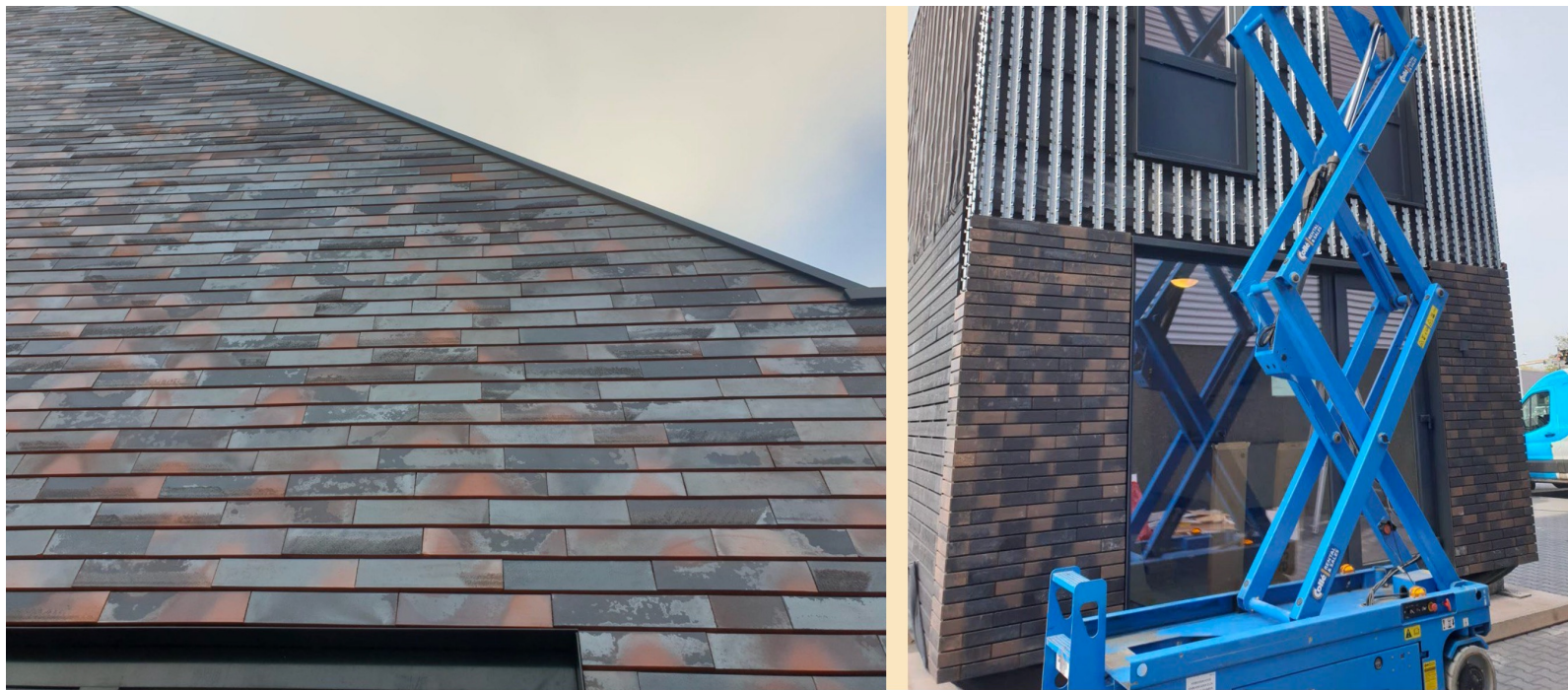
Clinker tiles - implementation



Clinker tiles - implementation



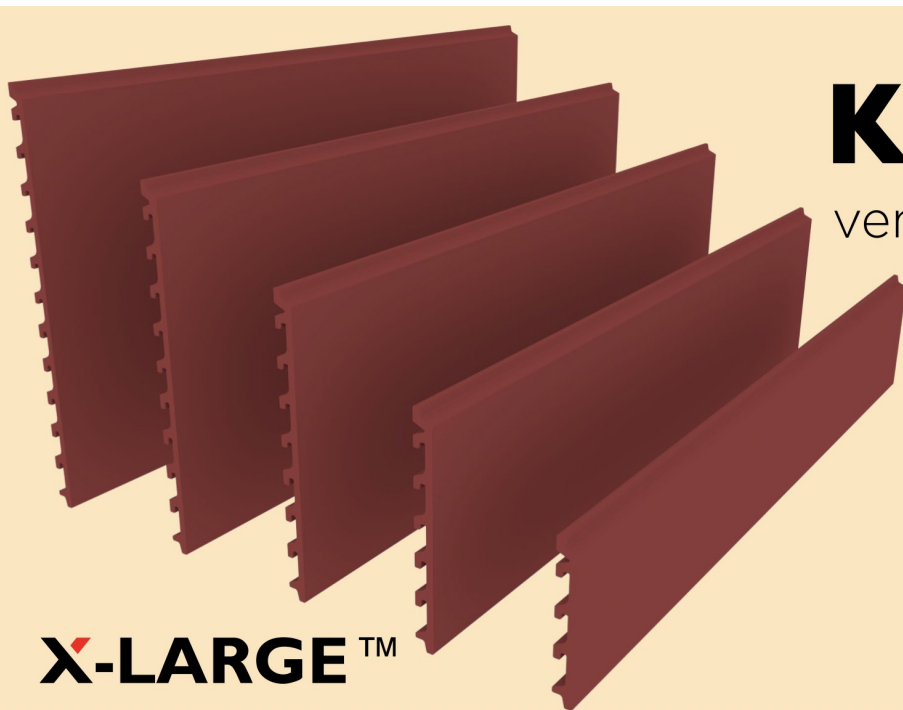
Clinker tiles - implementation



SCANROC Clinker tiles X Large



SCANROC Clinker tiles X Large



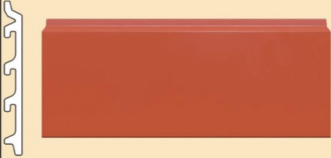
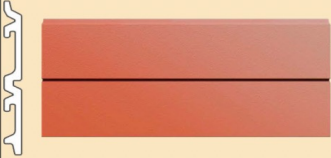
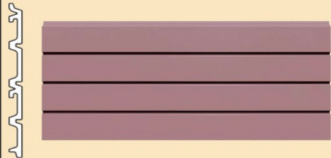
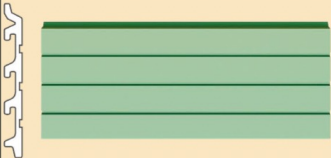
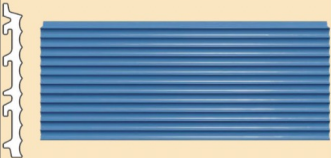
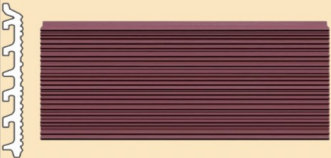
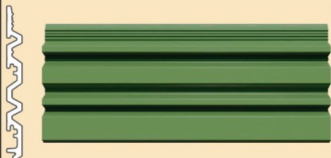
X-LARGE™

X-LARGE™
KlinkerStone®
ventilated ceramic facades

- H 200 * L 300-1200mm
- H 300 * L 450-1200mm
- H 400 * L 600-1200mm

Further sizes up to
H 500,600 * L 1600 mm
are possible on request.

Clinker X Large – Type Surface

plain	single pilaster stripe	grooved	wavy
			
multiple pilaster stripes	stripes	ondo	unevenly grooved
			
montano	combed	multi-Stripes	multi-Wave
			

SCANROC Clinker tiles X Large



SCANROC Clinker tiles X Large



70011 Copper red FG2

70011 Copper red FG2

70006 Dark red FG1

70016 Sand FG1

70004 Cream FG1

70018 White matt FG1

70013 Light grey FG3

70005 Dark grey FG3

70001 Anthracite FG3

SCANROC Clinker tiles X Large



70358 – BL4

70357 – B70357 – BL3L3

70355 – BL1

70372 – TU3

70381 – GR2

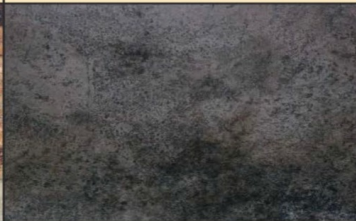
70380 – GR1

70385 – RO1

70385 – RO1

70360 – OR1

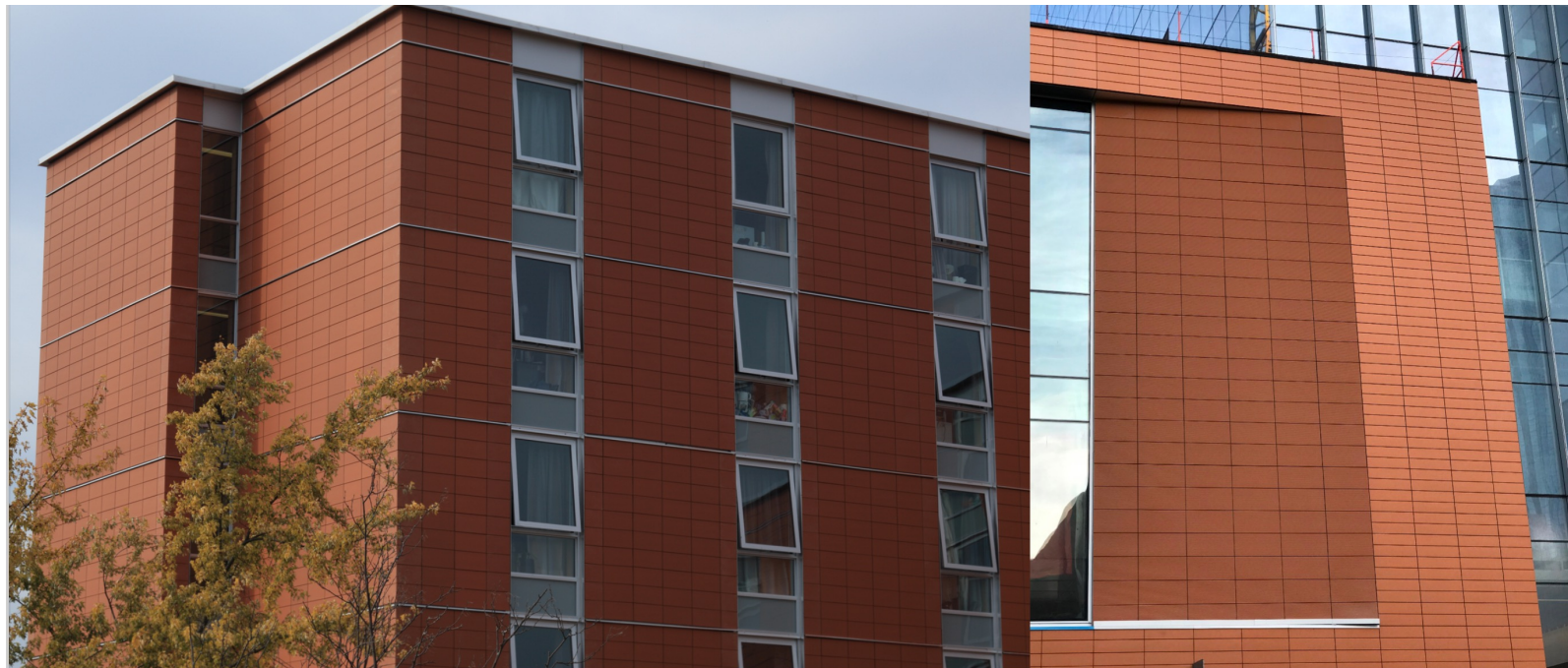
SCANROC Clinker tiles X Large

70831 Cement 1	70835 Oak 1	70839 Porphy 1	70840 Porphy 2
			
70842 Travertin 1	70832 Cement 2	70836 Oak 2	70838 Oak 4
			
70841 Porphy 3	70843 Travertin 2	70833 Cement 3	70834 Cement 4
			

Clinker X Large - implementation



Clinker X Large - implementation



Clinker X Large - implementation



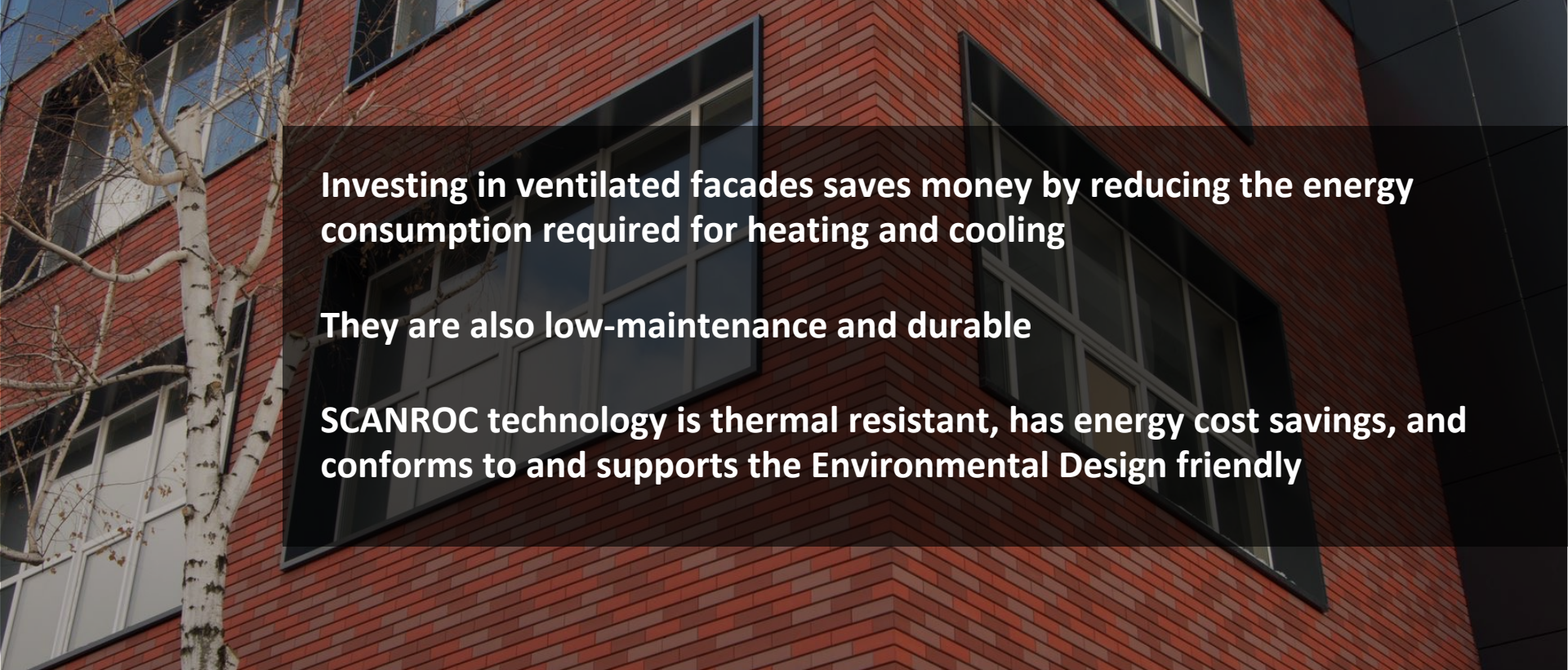
Clinker X Large - implementation



Content

- 01 About ventilation facades
- 02 About our technology
- 03 About our product assortment
- 04 **Building Energy Efficiency**
- 05 Demand Flexibility and
Architecture goals
- 06 Construction benefits
- 07 Sustainability Goals





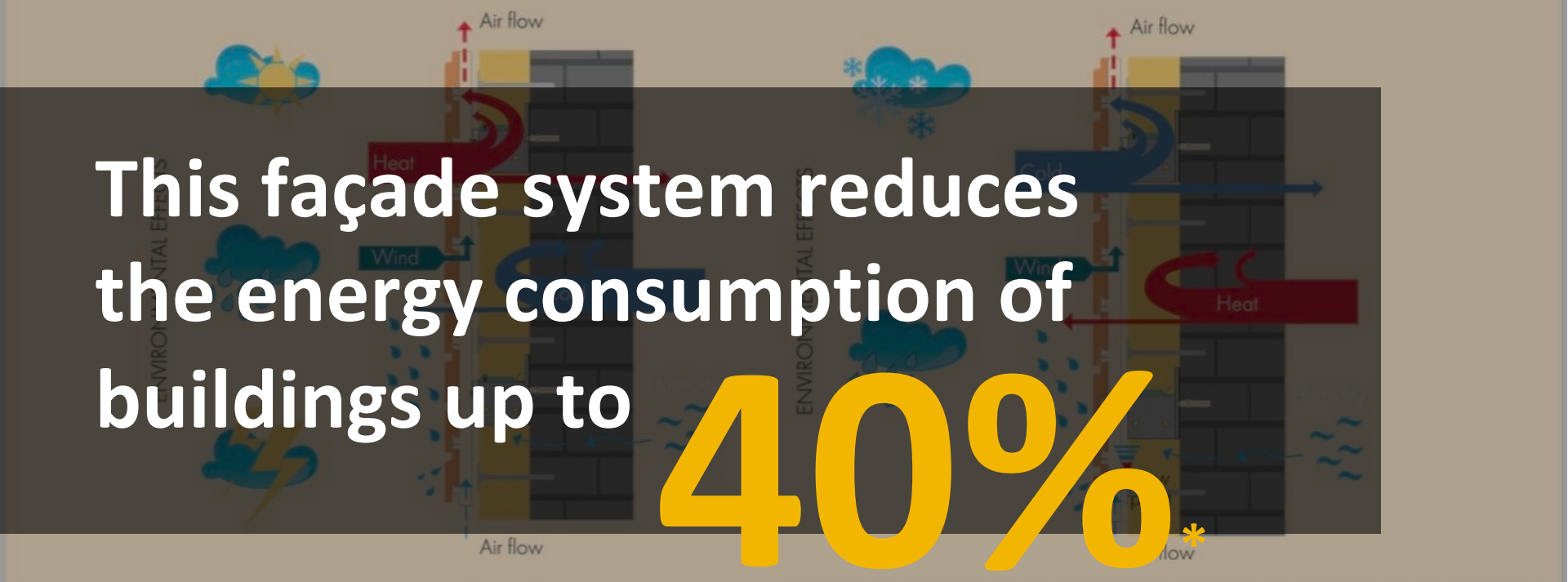
Investing in ventilated facades saves money by reducing the energy consumption required for heating and cooling

They are also low-maintenance and durable

SCANROC technology is thermal resistant, has energy cost savings, and conforms to and supports the Environmental Design friendly



Building Energy Efficiency



This façade system reduces the energy consumption of buildings up to **40%***

Thanks to the insulation system used in the facades of SCANROC, external fencing structures have the highest energy efficiency class«C»

*According test of thermal resistance of Ukrainian Institute

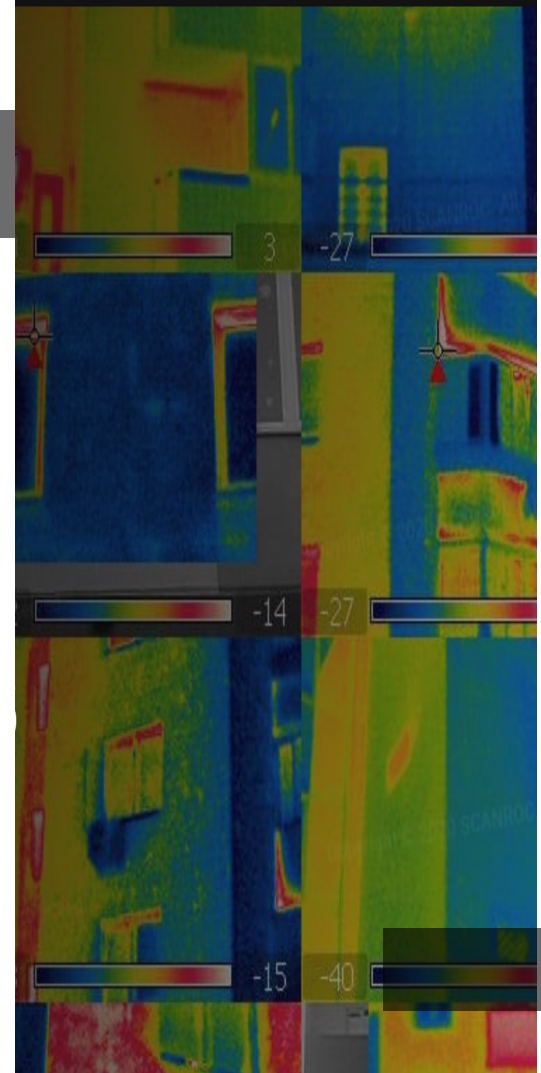
Thermal Efficiency

Energy label of the effectiveness of the facade system SCANROC

Issued in accordance with the methodology for assessing energy efficiency regarding energy labeling of facade systems No. 1 dated 01.25.2019

Number of permits: VRV-217-6369.19-002

Index	Units rev.	Value
Reduced heat transfer resistance [Rpr]	m ² ·K / W.	4,25
Thermal heterogeneity [r]	—	0,83
Conditional Life	Years.	25
Breathability TI material	m ³ /(m ² ·h)	0,228
Flammability class of TI material	—	NG



Determination of energy efficiency

Classes of the SCANROC facade system at the location in the building envelope

Location in the building

Energy efficiency class

Wall, facade insulation with cladding

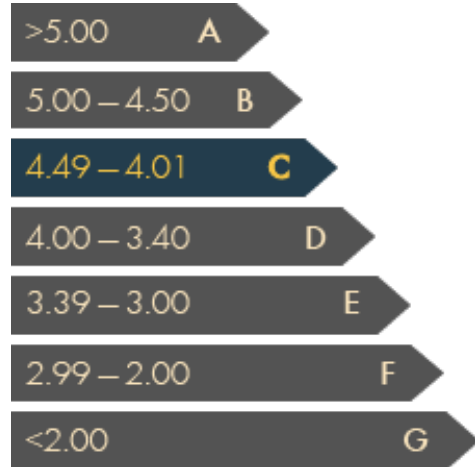
Class "C" [K = 4.07]

Basement surface

Class "C" [K=4,07]

Foundation wall surface

Class "C" [K=4,07]

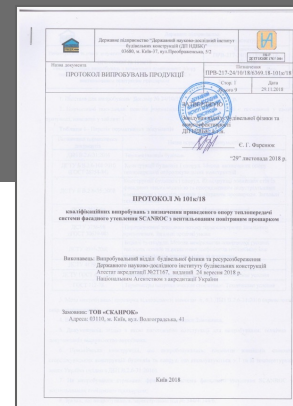
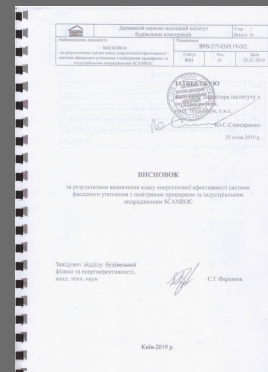
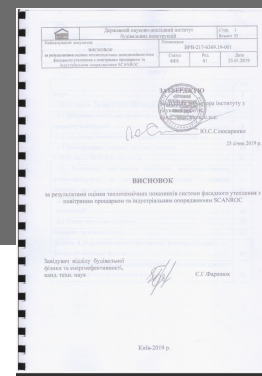


Conclusion according to the results of evaluating the energy efficiency class of a facade insulation system with an air gap and industrial finishing SCANROC

Conclusion according to the results of the assessment of the thermal performance of the facade insulation system with an air gap and industrial finishing SCANROC

Protocol of qualification tests to determine the reduced heat transfer resistance of facade insulation systems SCANROC with a ventilated air gap

Test report of thermal resistant



Content

- 01 About ventilation facades
- 02 About our technology
- 03 About our product assortement
- 04 Building Energy Efficiency
- 05 Demand Flexibility and
Architecture goals**
- 06 Construction benefits
- 07 Sustainability Goals





Demand Flexibility and Architecture goals

- Massive brick-style assortment SCANROC for huge needs in renovating historical buildings and new local-style construction in Toronto
- Multi-design solutions are available
- Aesthetic beauty buildings with SCANROC facade performance and indoor environmental quality increase the properties of commercial appeal

Content

- 01 About ventilation facades
- 02 About our technology
- 03 About our product assortement
- 04 Building Energy Efficiency
- 05 Demand Flexibility and
Architecture goals
- 06 **Construction benefits**
- 07 Sustainability Goals





Construction benefits

- Installation time is 2-3 times faster than traditional wet laying brick, stone, or tiles on the wall
- The average installation speed of one person is about 10-12 m² per 8-hour working day
- Fast installation reduces resource consumption by reducing labor and equipment operating costs
- In addition, it reduces labor costs due to rapid training and the attraction of newcomers
- Facade repairs and replacements are simplified; foundation or roof canopy expansion is unnecessary. When graffiti occurs, the new damaged SCANROC is repaired locally by changing a few tiles

Dry-installed technology reduces winter gaps

Laying a façade system of tiles does not require grout



No wet processes

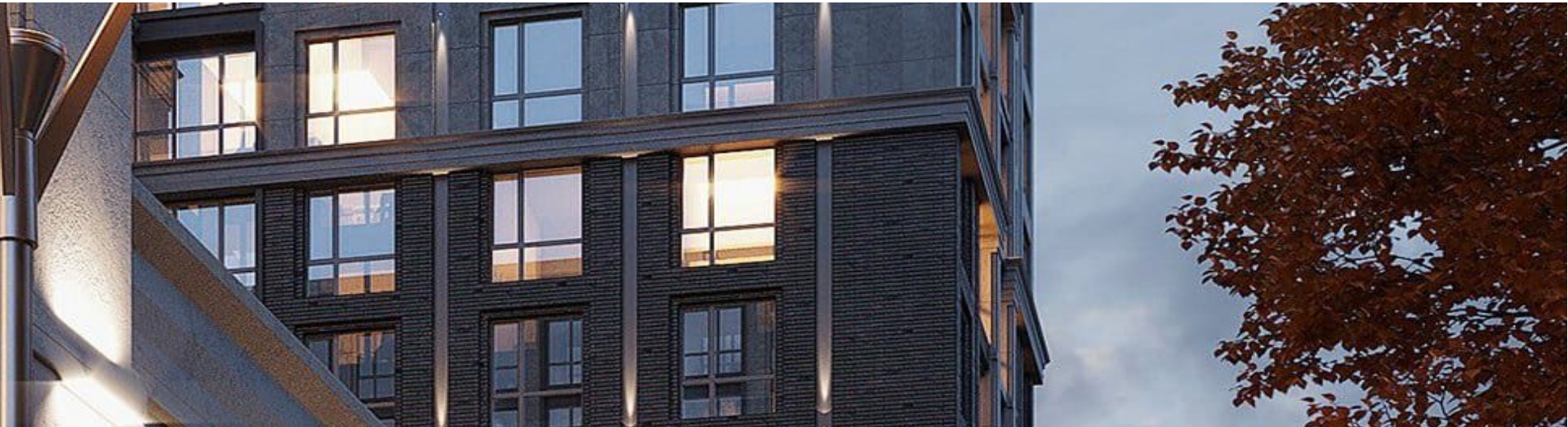
Content

- 01** About ventilation facades
- 02** About our technology
- 03** About our product assortement
- 04** Building Energy Efficiency
- 05** Demand Flexibility and
Architecture goals
- 06** Construction benefits
- 07** **Sustainability Goals**



Sustainability Goals

- SCANROC low emitting material and technology, without coatings, adhesives, or sealants
- Excludes any hazardous materials
- Saves natural resources



CERTIFICATES



**European Technical Assessment
ETA 16/0589
of 20/06/2017**

Technical Assessment Body issuing the ETA:
Technical and Test Institute for Construction Prague



**European Technical Approval Guidelines
ETAG 034
of April 2012 (used as EAD)**

Technical Assessment Body issuing the ETAG:
Technical and Test Institute for Construction Prague



CERTIFICATES

CERTIFICATE



for the management system
according to ISO 9001:2015

The proof of the conforming application with the regulation was
furnished and in accordance with certification procedure it is certified
for the company

SCANROC

Limited Liability Company
"SCANROC"

41, Volgogradskaya str., 03110, Kyiv, Ukraine
with branch (see enclosure)

Scope

Production of facade system SCANROC

Certificate Registration No.: TIC 15 100 1810209

Valid until: 2021-04-22

Valid from: 2018-04-23

Audit Report No.: 3330 2VXX A0

This certification was conducted in accordance with the TIC auditing and certification procedures and
is subject to regular surveillance audits.


TUV Thüringen e.V.
Certification body for
systems and personnel



Jena, 2018-04-23



Original certificates
are provided with a hologram.

The current validity can be demanded at our homepage www.tuv-thueringen.de



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Czech Republic
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European Technical Assessment

ETA 16/0589
of 20/06/2017

(English language translation, the original version in Czech language)

1 General Part

Technical Assessment Body issuing the ETA:

Technical and Test Institute for Construction Prague

Trade name of the construction product

SCANROC

Product family to which the construction
product belongs
Manufacturer

Kits for external wall claddings

VKM Solutions, SE
Hybemská 1271/32
Nové Město, 110 00 Praha 1
Czech Republic

Manufacturing plant(s)

1) VKM Solutions, SE
Hybemská 1271/32
Nové Město, 110 00 Praha 1
Czech Republic
2) SCANROC LLC
41 Volgogradskaya str.
Kiev, 03141
Ukraine

This European Technical Assessment
contains

26 pages including 9 Annexes which form an
integral part of this assessment.
Annex No. 10 Control Plan contains
confidential information and is not included in
the European Technical Assessment when
that assessment is publicly disseminated.

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

ETAG 034, edition 2012, part 1 and part 2,
used as European Assessment Document
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WARRANTY

7 years

According to the Ukraine standards, the guarantee for the components of the facade ventilated system is 5.5 years, but the SCANROC company provides a voluntary guarantee, fixed in the contract: The warranty period for the system is at least 7 years from the date of commissioning, provided that the consumer observes the rules for operating the system



Our contacts

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THANK YOU