

StoCera Manual



Legal notes:

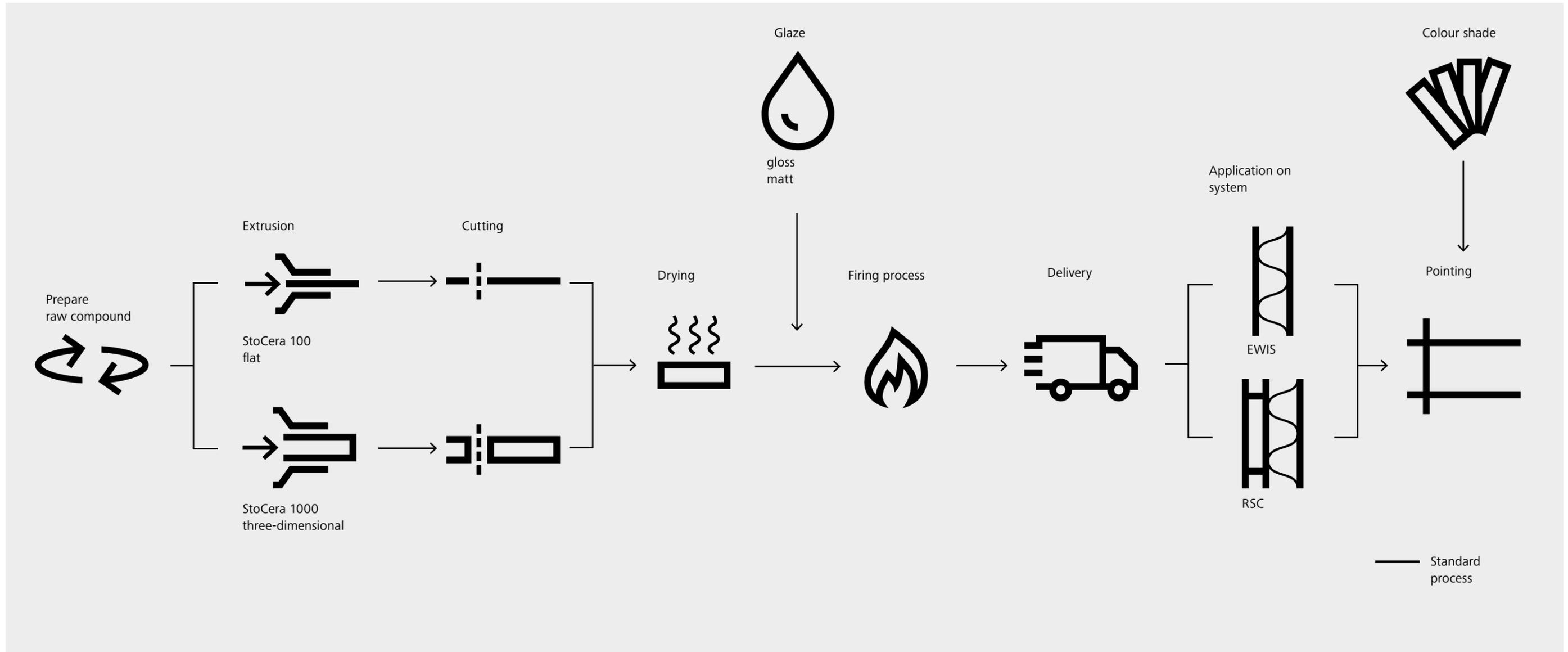
It should be noted that the details, illustrations, general technical information, and drawings contained in this brochure are only general proposals and details which describe the functions. They are not dimensionally accurate. The applicator/customer is independently responsible for determining the suitability and completeness for the construction project in question. Neighbouring works are only described schematically. All specifications and information must be adjusted or agreed in the light of local conditions and do not constitute work, detail or installation plans. The technical specifications and product information included in the Technical Data Sheets and system descriptions/approvals must be observed.

Please note that this represents the current Nordic selection of ranges within StoCera. Please contact your local sales rep for information about availability, delivery times etc. Contact information on the last page or on sto.se / sto.dk / sto.fi / sto.no
Published July 2024 on sto.se

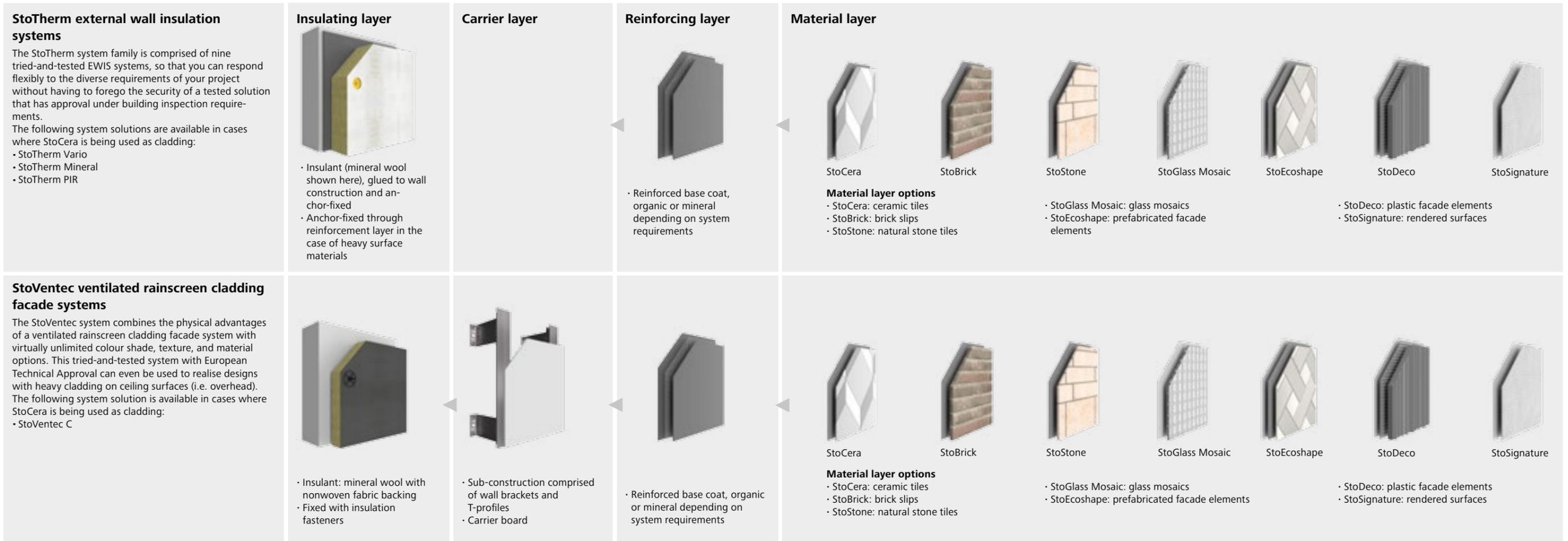


Contents

Manufacturing and application of StoCera



Facade materials in system



Notes and tips

Images

The appearance of colours differs according to the gloss level and glaze application, and digital photos are only able to reflect this to a certain extent. The colour shades shown will differ from the original ceramics due to the way in which they are depicted. We recommend deciding on colour shades by looking at genuine samples in daylight.

Planning

StoCera and StoBrick are ceramic claddings in accordance with DIN EN 14411. The same general conditions (such as insulation board fixing and field demarcation joints) must be put in place when applying both claddings to StoTherm and StoVentec systems. Structural expansion joints must be incorporated into the ceramic covering.

Preventing visual issues from arising in the project

To prevent visual issues, we recommend:

- Ordering the entire amount of tiles required for a construction project at the same time. If this is not possible, additional quantities should be ordered as early as possible.
- Removing the ceramic tiles from several pallets at the same time and installing a mix from several boxes.
- Mixing in reorders or laying on visually separate surfaces, e.g. separating by building corners.

TSR value

The TSR value specifies the Total Solar Reflectance. The higher the TSR value, the lower the extent to which surfaces will heat up. In principle, it is possible to design facades with ceramic claddings that have a very low TSR value. If the TSR value is < 25 , however, our product management team may need to test the specific construction project before system approval can be issued.

Joint

The joint widths specified are based on the target grid dimension for the ceramics and may deviate within defined limits in accordance with EN 14411 as a natural material is being used. During installation, the joint can be used to compensate for these material-related tolerances. The joint can also be used to compensate for construction tolerances.

Pointing mortar

StoColl FM-S slurry grout is used as standard. StoColl FM-K pointing mortar and StoColl FM-E injection pointing mortar may also be used as alternatives.

Application

- Measure the facade surfaces, ensuring plumb and flush alignment, and divide them up in a way that is appropriate for the bond.
- To ensure that installation is performed correctly and appropriately for the bond, all cutting to size must be planned and executed in concealed areas where possible.
- Building corners must be appropriate for the bond and cutting to size must be avoided as a means of compensating for tolerances in the corner area.
- Install the ceramics by means of application to both surfaces in accordance with EN 12004.
- Observe the adhesive cure time.
- Use suitable, vibration-free tile cutters for cutting to size.



Range

	StoCera 100	StoCera 1000
Detail view (viewing distance approx. 0.5 m)		
Product section (viewing distance approx. 1.5 m)		
Surface	glazed, smooth	glazed, fine-textured
Ceramics colouring	monochrome	changing monochrome
Gloss level	silk matt or gloss	gloss
Corners/edges	rounded, unglazed	rounded, unglazed
Sizes	56 x 244 x 6 mm 119 x 119 x 6 mm 119 x 244 x 6 mm 244 x 244 x 6 mm	see overview
Grid	125 mm	based on thin format (240 x 52 mm + joint)
Joint	6 mm	10 mm



StoCera 100

Overview

Surface

glazed, smooth

Gloss level

silk matt (50 colour shades)

gloss (8 colour shades)

Ceramics colouring

monochrome

Edges

rounded, unglazed

(glazed on request)

Joint

6 mm

Grid

modular in 125 mm grid (1/8 metre)

Joint colouring

18 colour shades (StoColl FM-S)

12 colour shades (StoColl FM-K)

8 colour shades (StoColl FM-E)

Water absorption

below 3 %

StoCera 100

244 x 56 x 6 mm format

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stack bond

StoCera 100 colour shade:
003

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

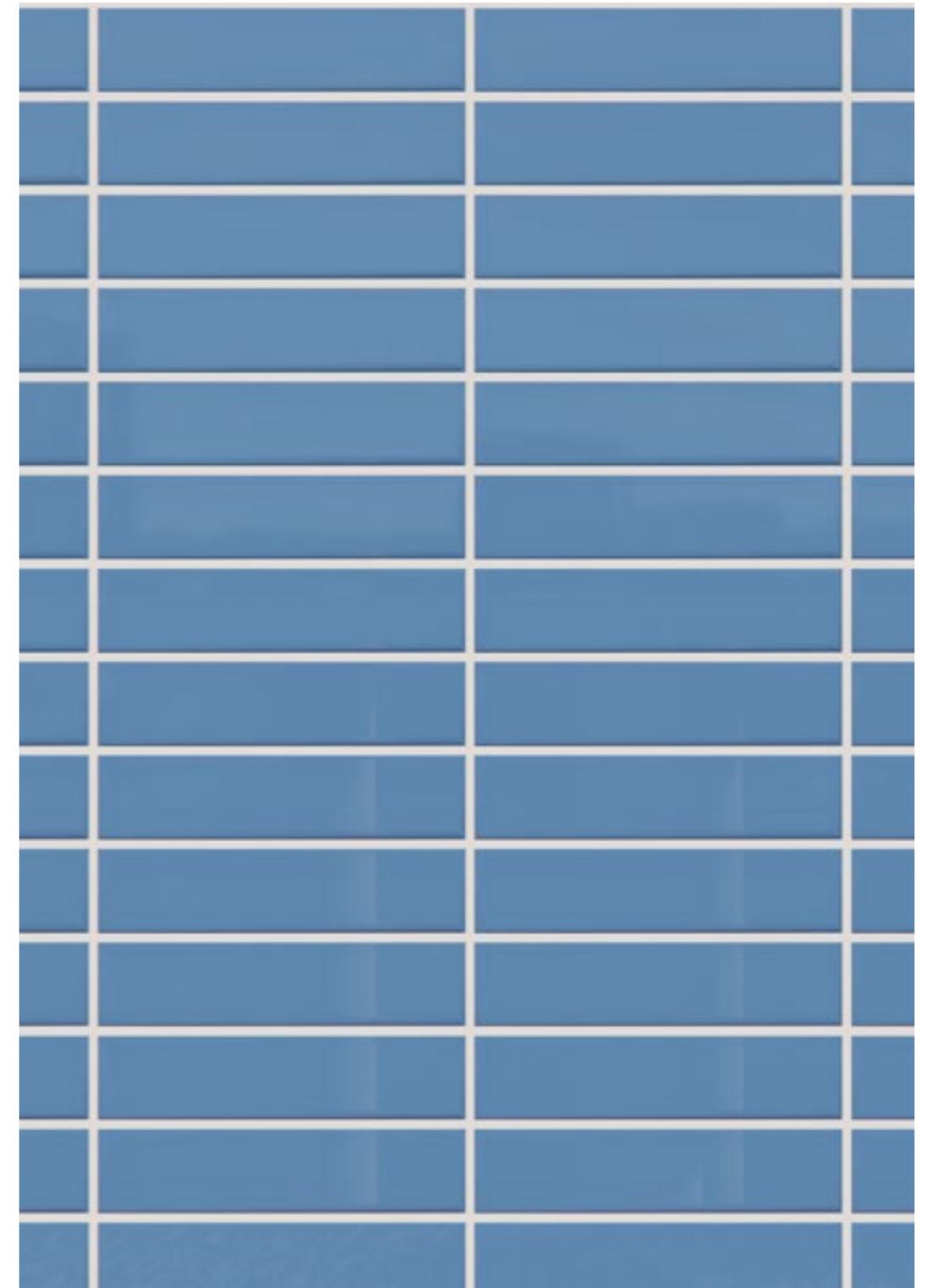
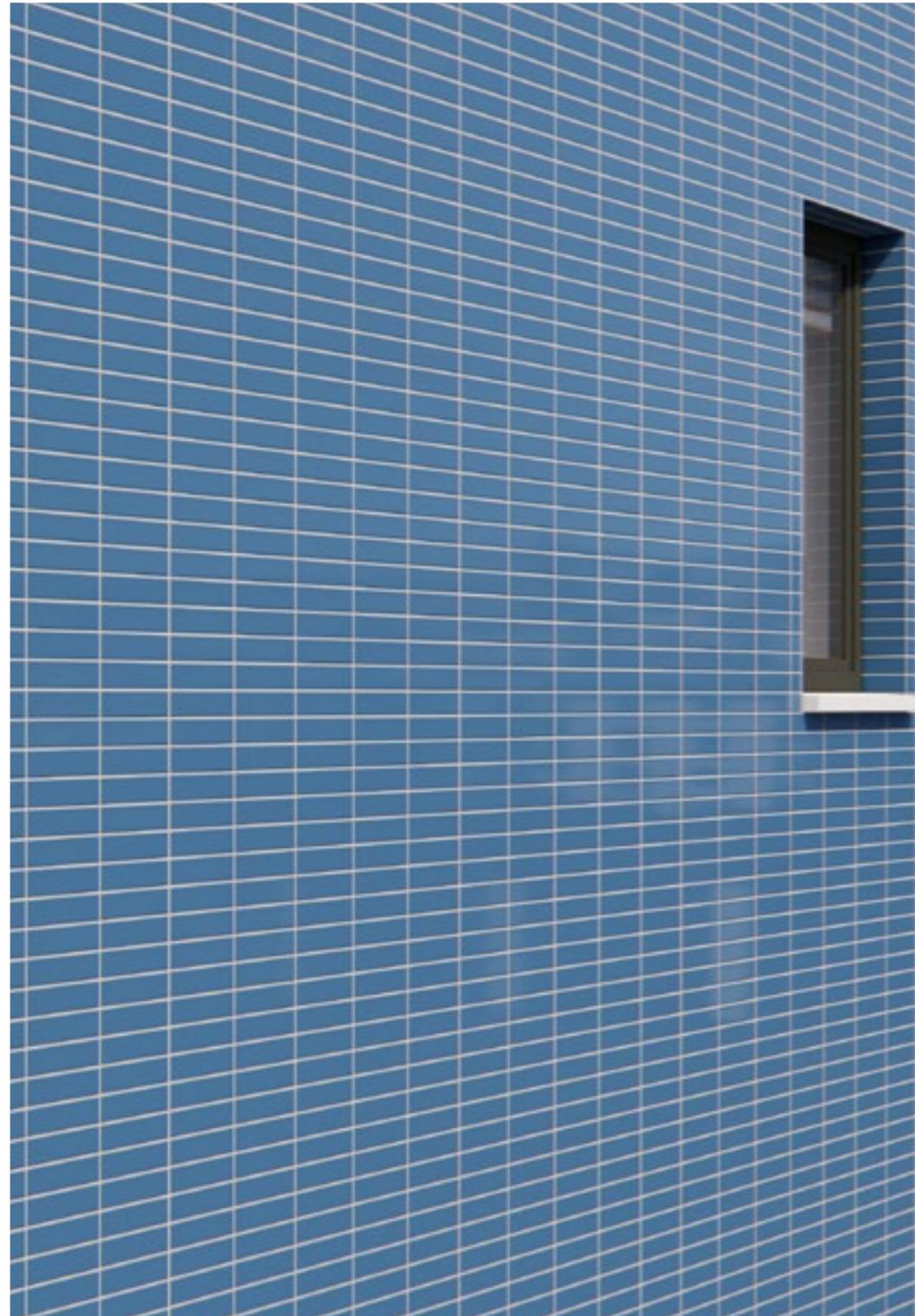
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 100

119 x 119 x 6 mm format

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stack bond

StoCera 100 colour shade:
031

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

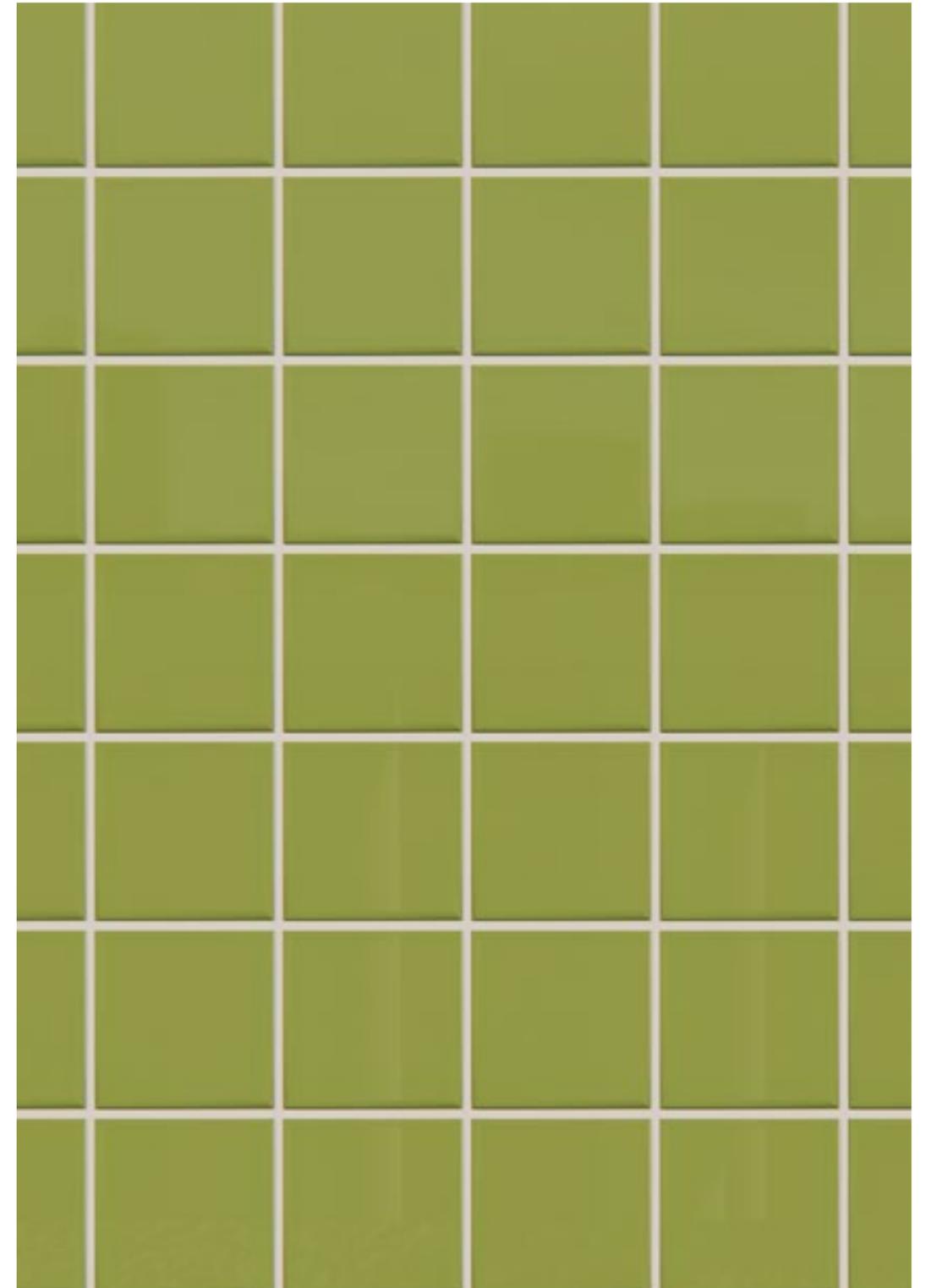
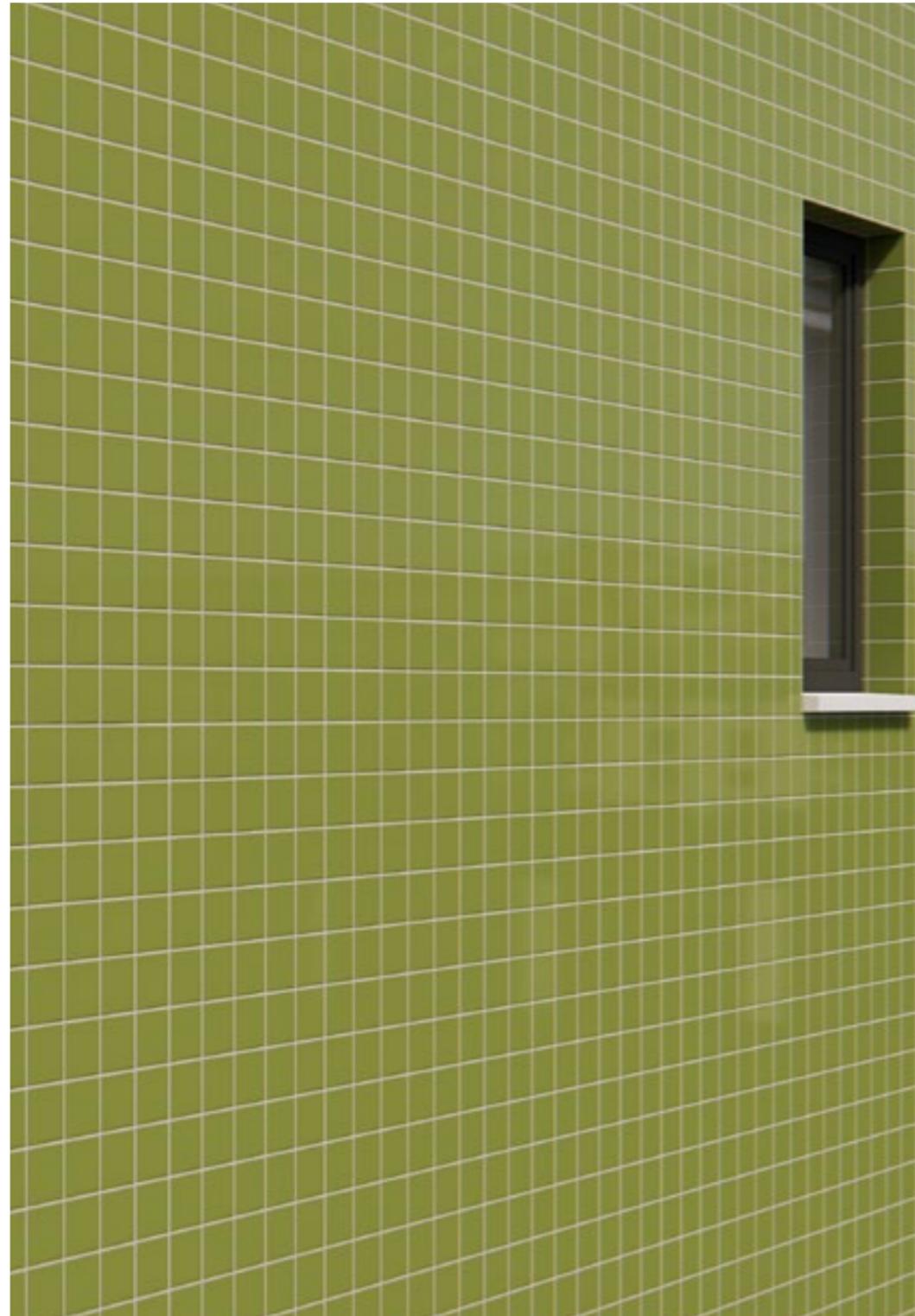
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 100

244 x 119 x 6 mm format

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stack bond

StoCera 100 colour shade:
041

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

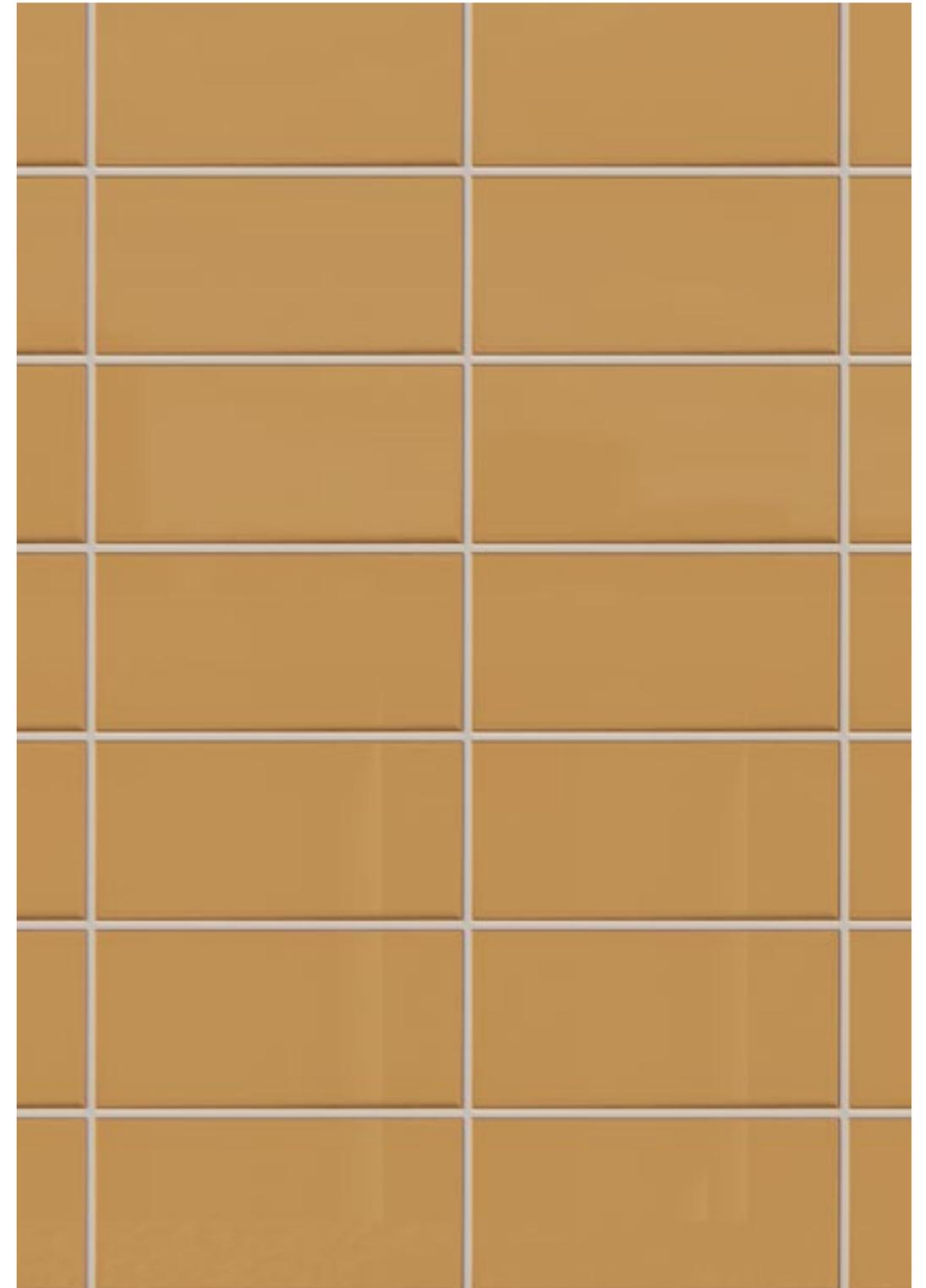
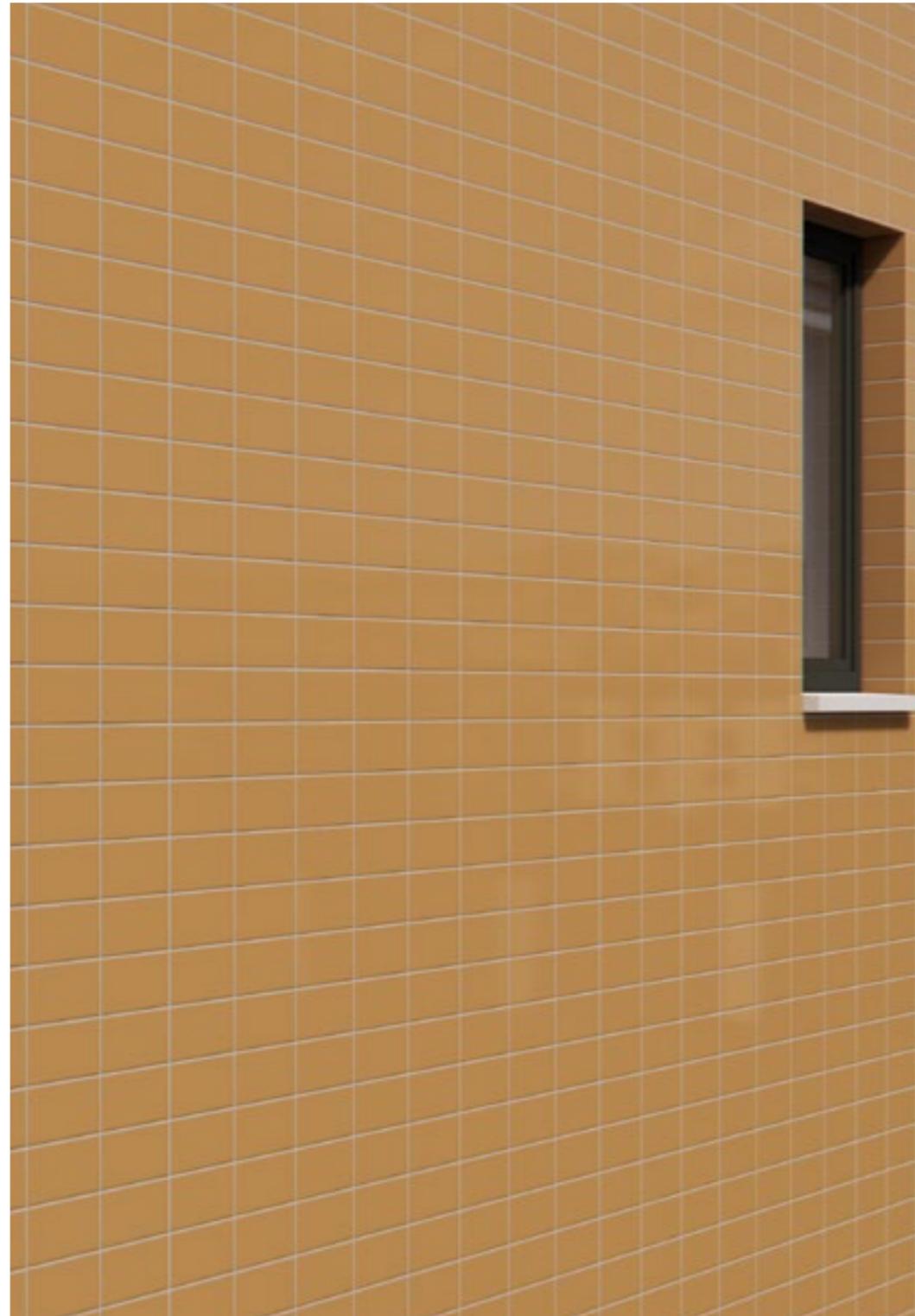
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 100

244 x 244 x 6 mm format

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stack bond

StoCera 100 colour shade:
071

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

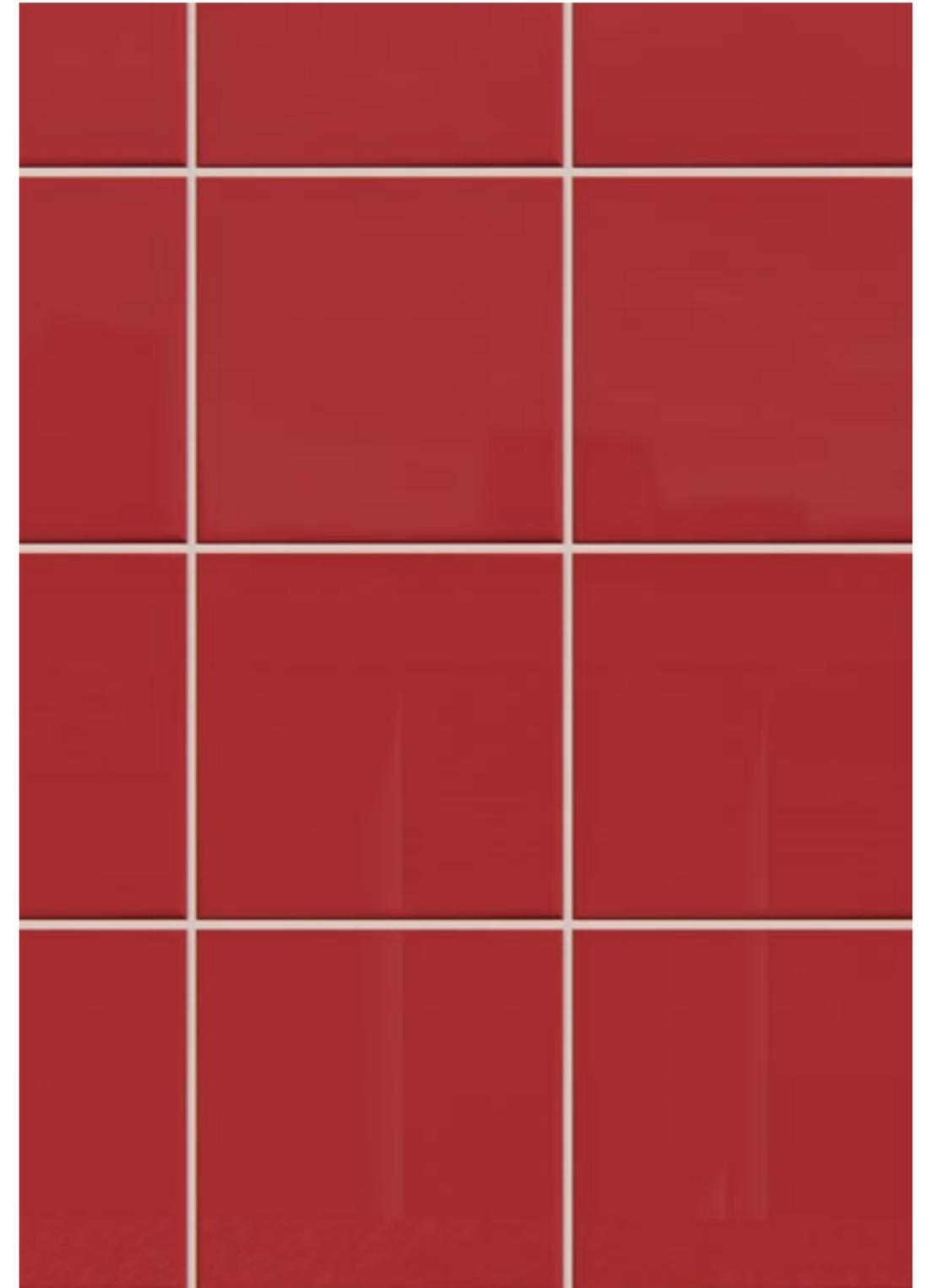
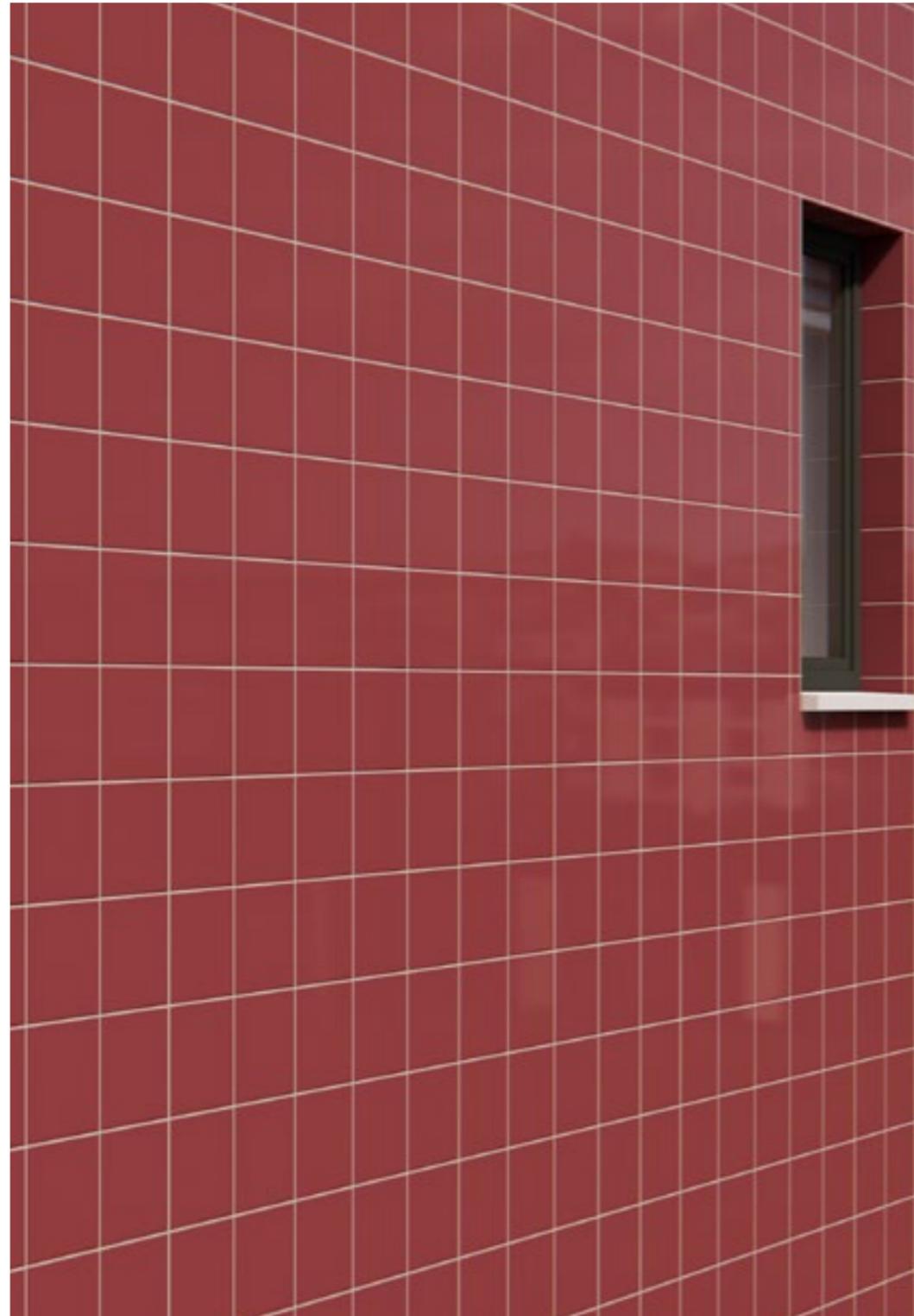
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request





StoCera 100

Colour shades

Product information

Formats:
56x244x6 mm
119x119x6 mm
119x244x6 mm
244x244x6 mm

Water absorption:
below 3 %

Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

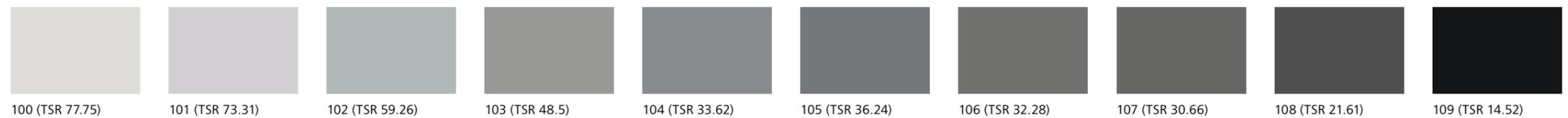
Minimum order quantities:
100m²
Further colour shades on request

*for colour shades with TSR value of <25, system approval available on request

Bright silk matt colour shades



Neutral silk matt colour shades



Bright gloss colour shades



Neutral gloss colour shades



StoCera 100

Modular formats in bond

Images

Viewing distances:
approx. 1.90 m

Product information

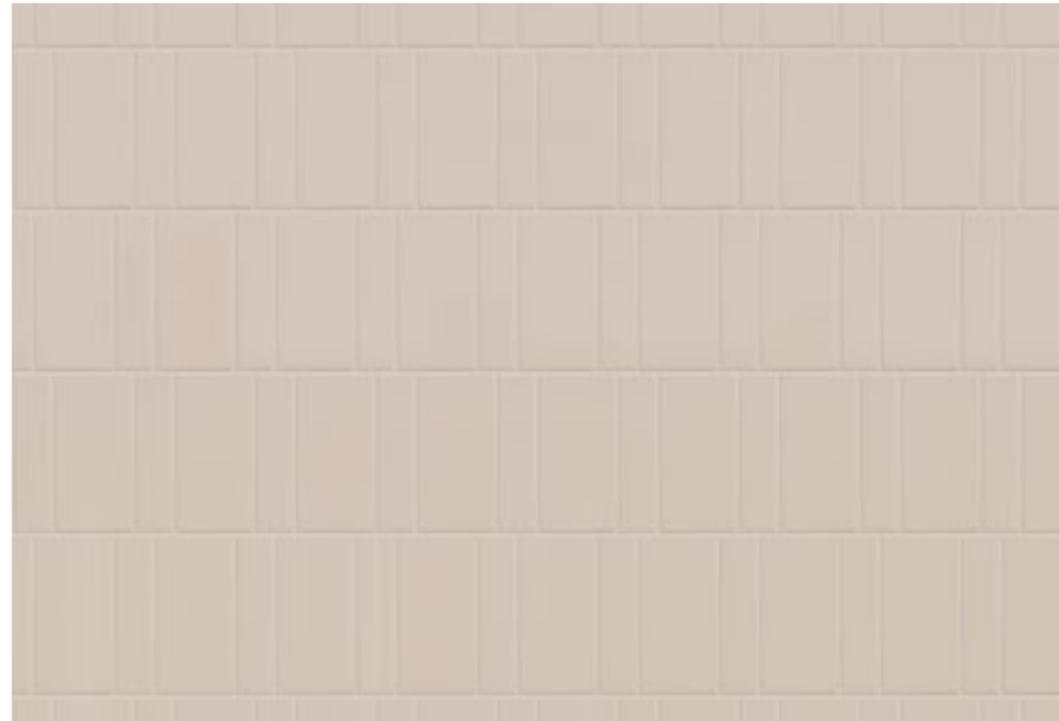
Formats:
56x244x6 mm
119x119x6 mm
119x244x6 mm
244x244x6 mm

Bonds:
stack, stretcher, and single basket weave bonds, horizontal
to vertical free application and combination of all formats
in 125 mm (1/8 metre) grid

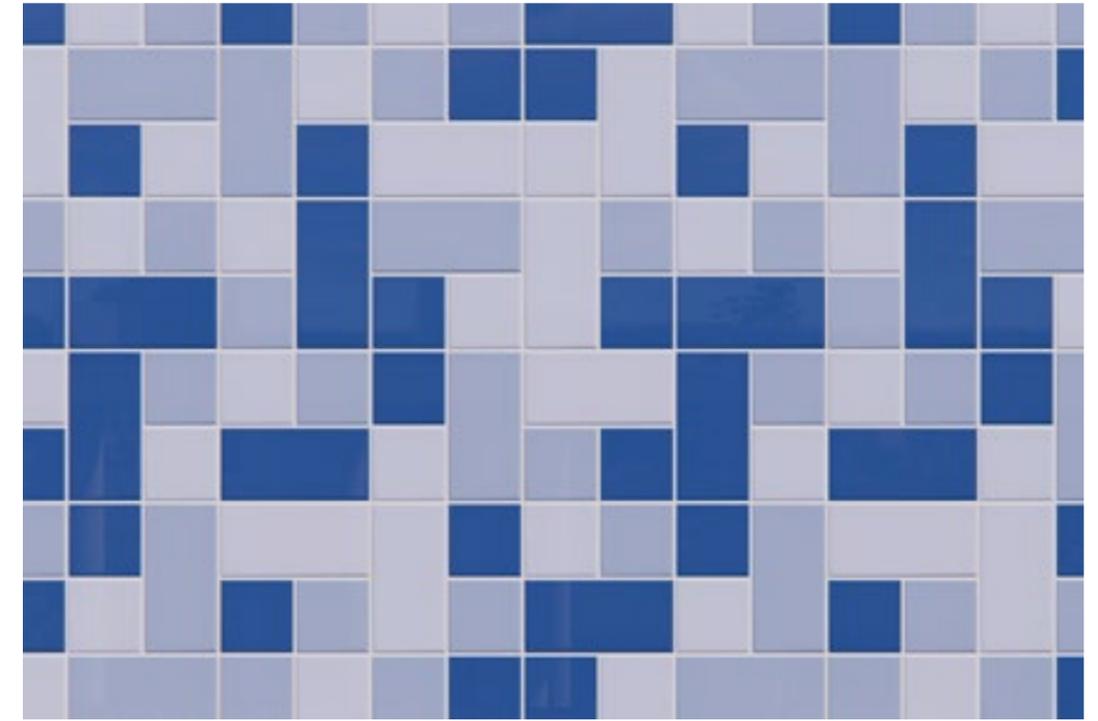
Possible applications on facade

full-surface
in stages*
as accent surface in combination with other facade
materials

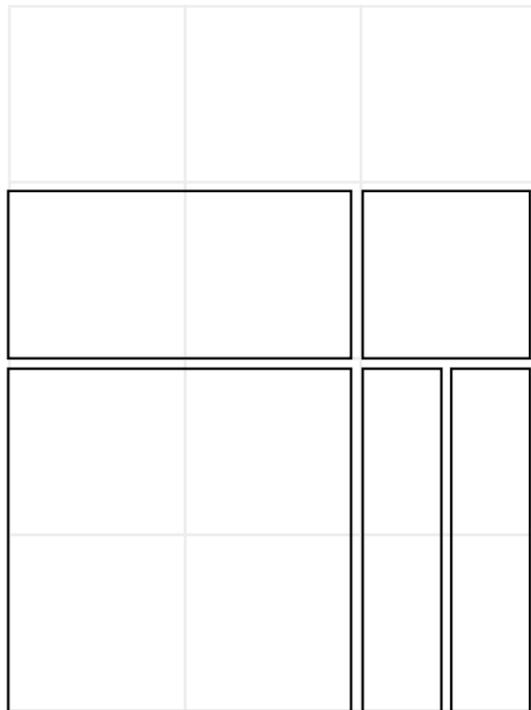
*possible without changing facade system



Formats: 56x244x6mm/119x244x6mm; colour shade: 094; joint colour shade: StoColl FM-S beige white



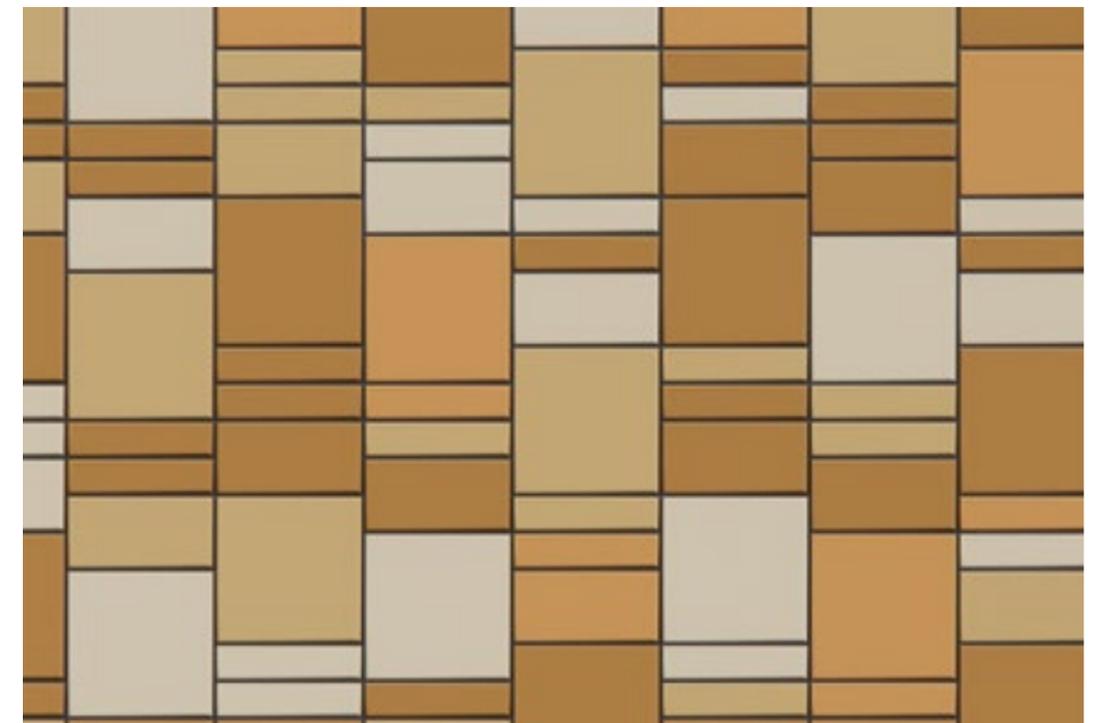
Formats: 119x119x6mm/119x244x6mm; colour shade: 012/013/014; joint colour shade: StoColl FM-S beige white



125 mm grid



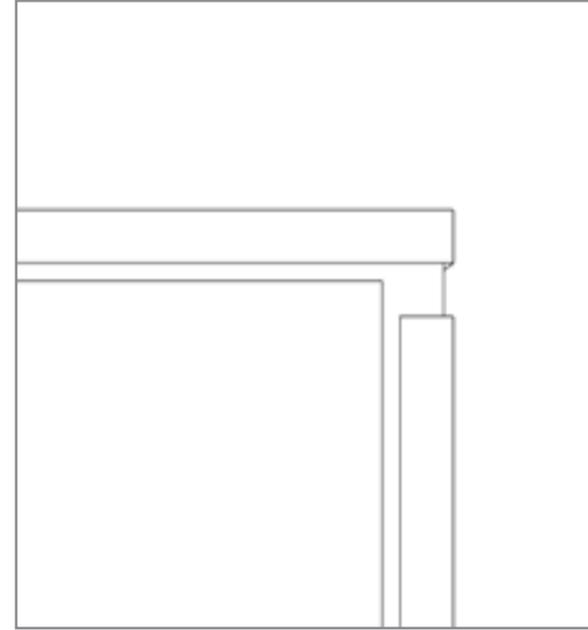
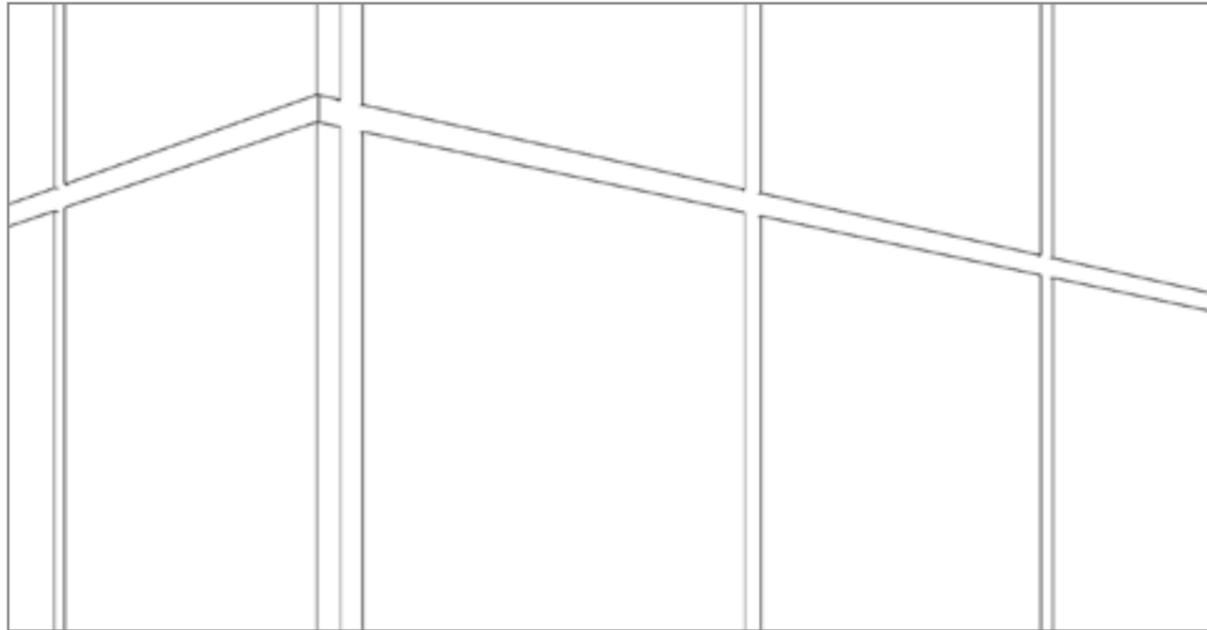
Formats: 244x56x6mm; colour shade: 108; joint colour shade: StoColl FM-S anthracite



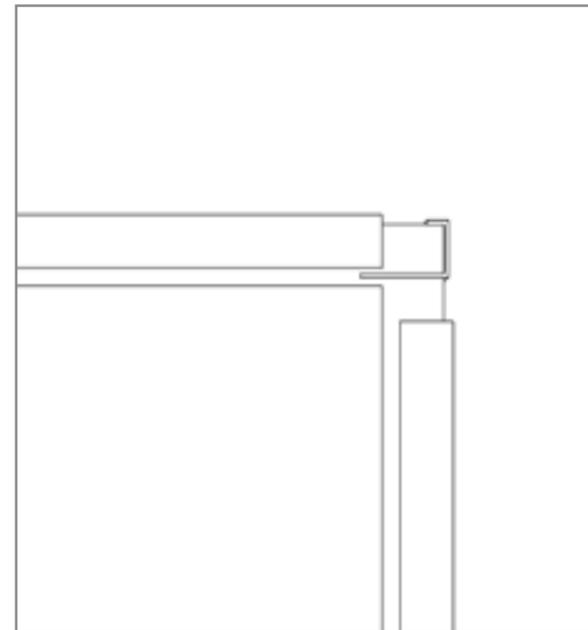
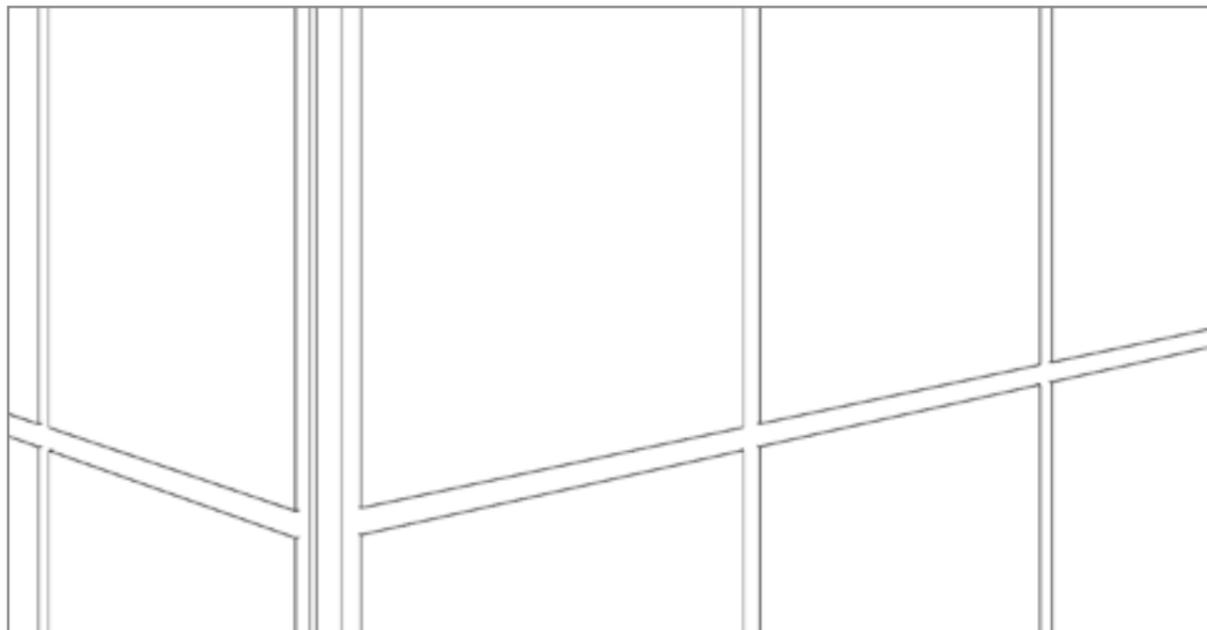
Formats: 244x244x6mm/244x119x6mm/244x56x6mm; colour shade: 041/042/043/044; joint colour shade: StoColl FM-S anthracite

StoCera 100

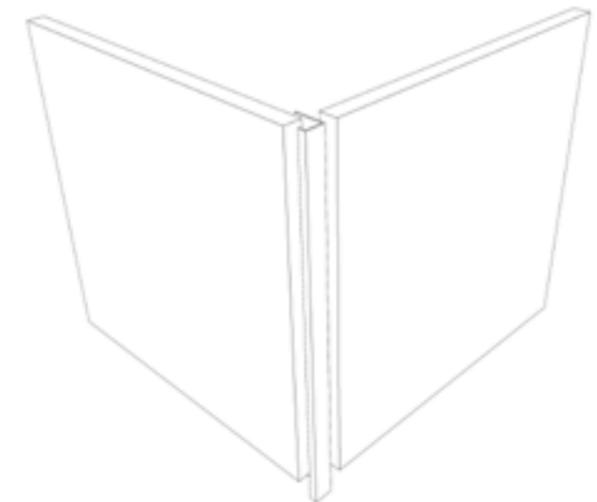
Corner and detail solutions

**Corner solution version 1:**

installed and pointed with visible glazed edge and continuous joint on outer edge

**Corner solution version 2:**

with visible angle profile and joint on both sides





StoCera 1000

Overview

Surface

glazed, fine-textured

Gloss level

gloss (11 colour shades)

Ceramics colouring

changing monochrome

Edges

rounded, unglazed
(glazed on request)

Joint

10 mm

Grid

thin format

Joint colouring

18 colour shades (StoColl FM-S)

12 colour shades (StoColl FM-K)

8 colour shades (StoColl FM-E)

Water absorption

below 6 %



StoCera 1000

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stretcher bond

StoCera 1000 colour shade:
355

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

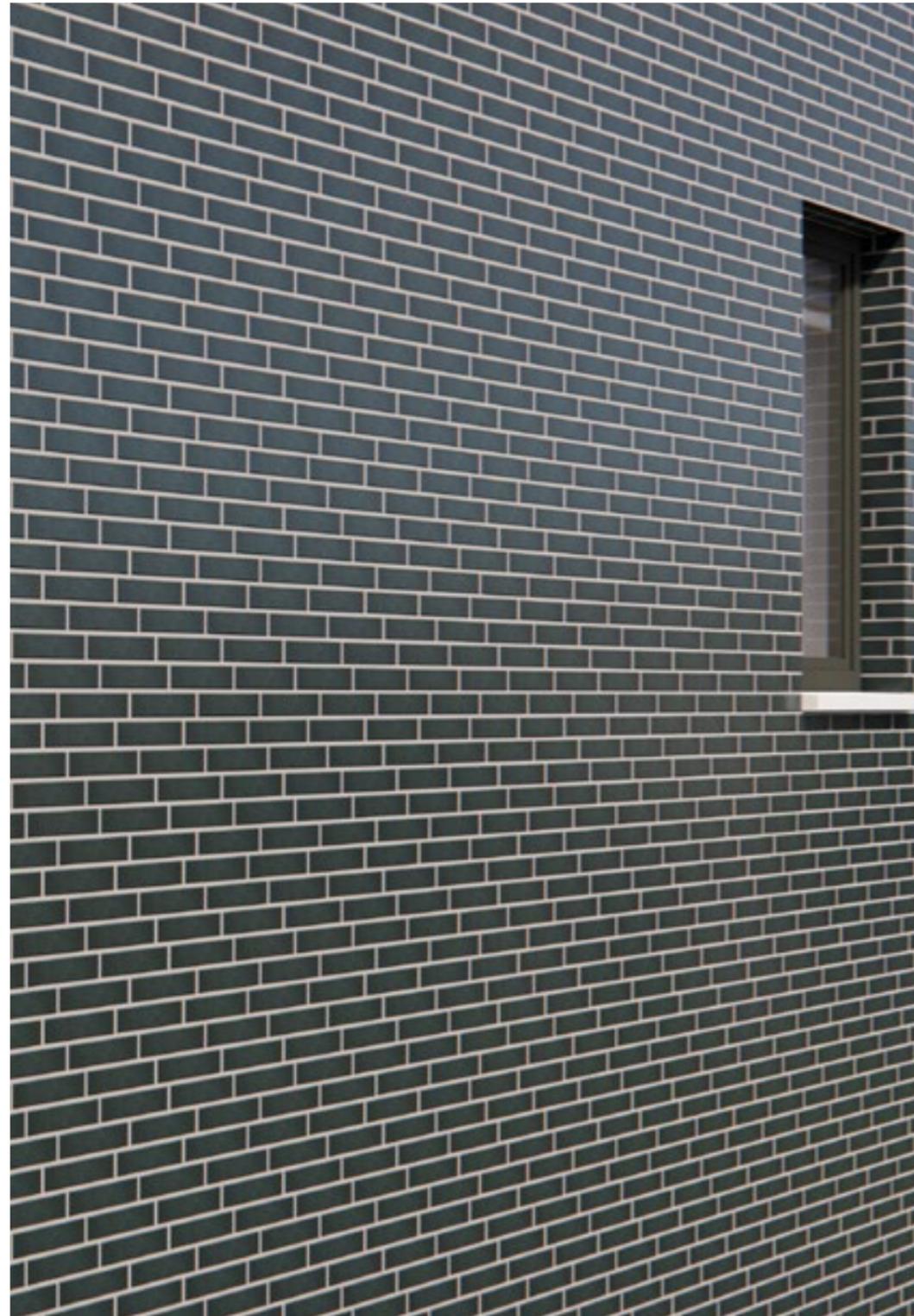
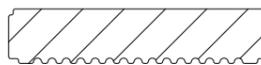
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 1110

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stretcher bond

StoCera 1000 colour shade:
310

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

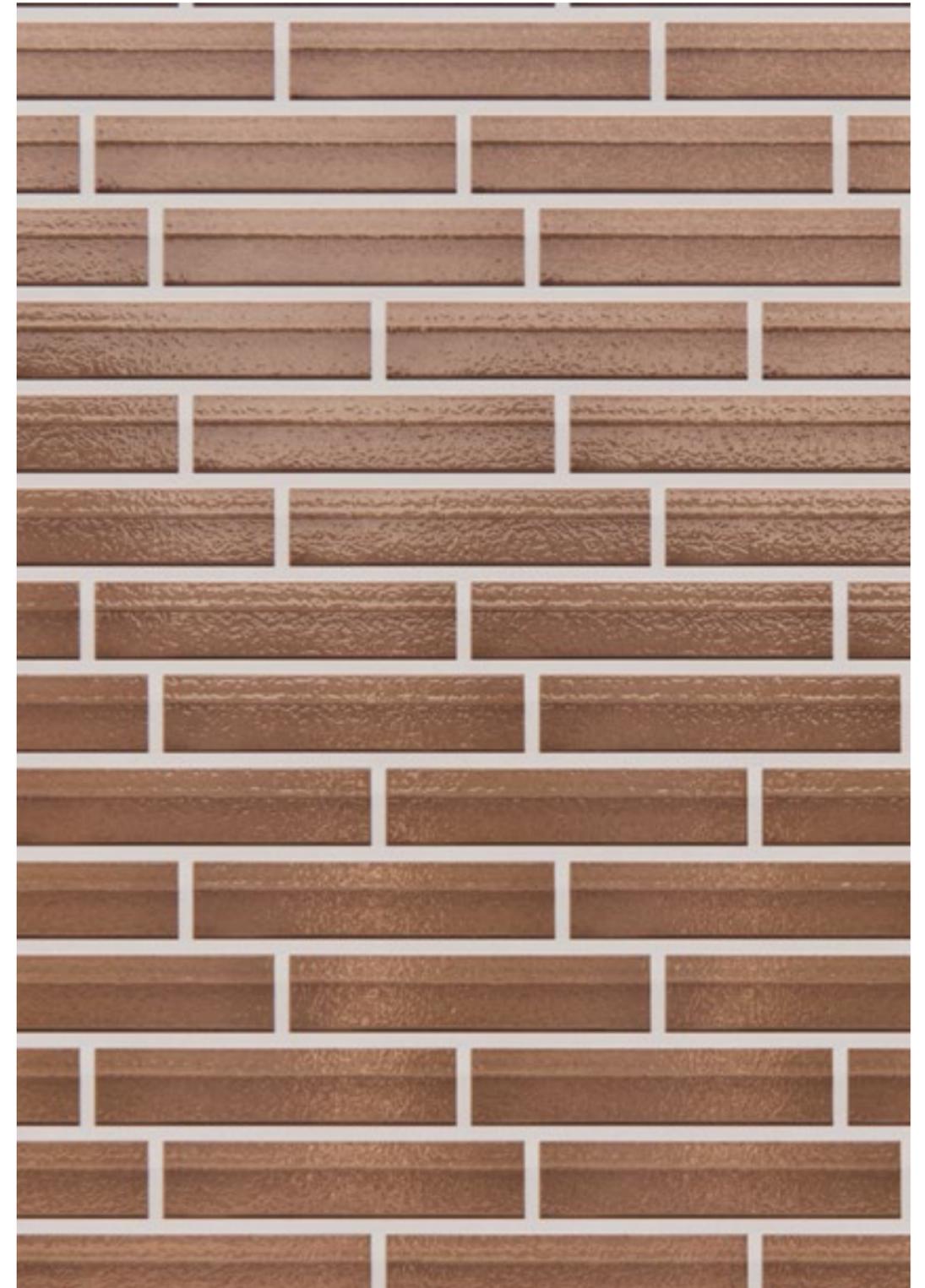
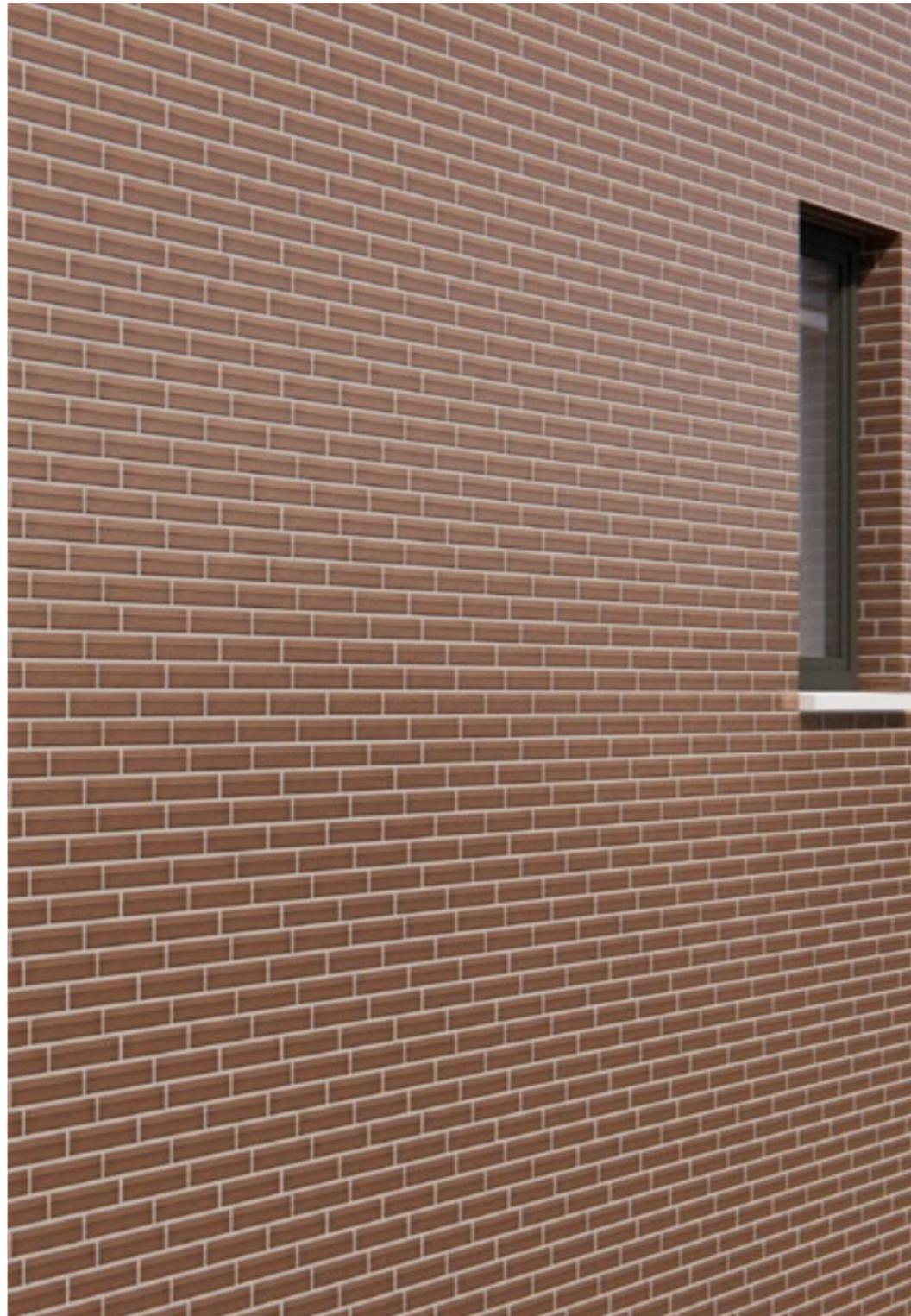
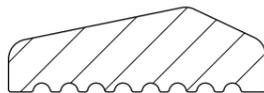
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 1140

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stretcher bond

StoCera 1000 colour shade:
330

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

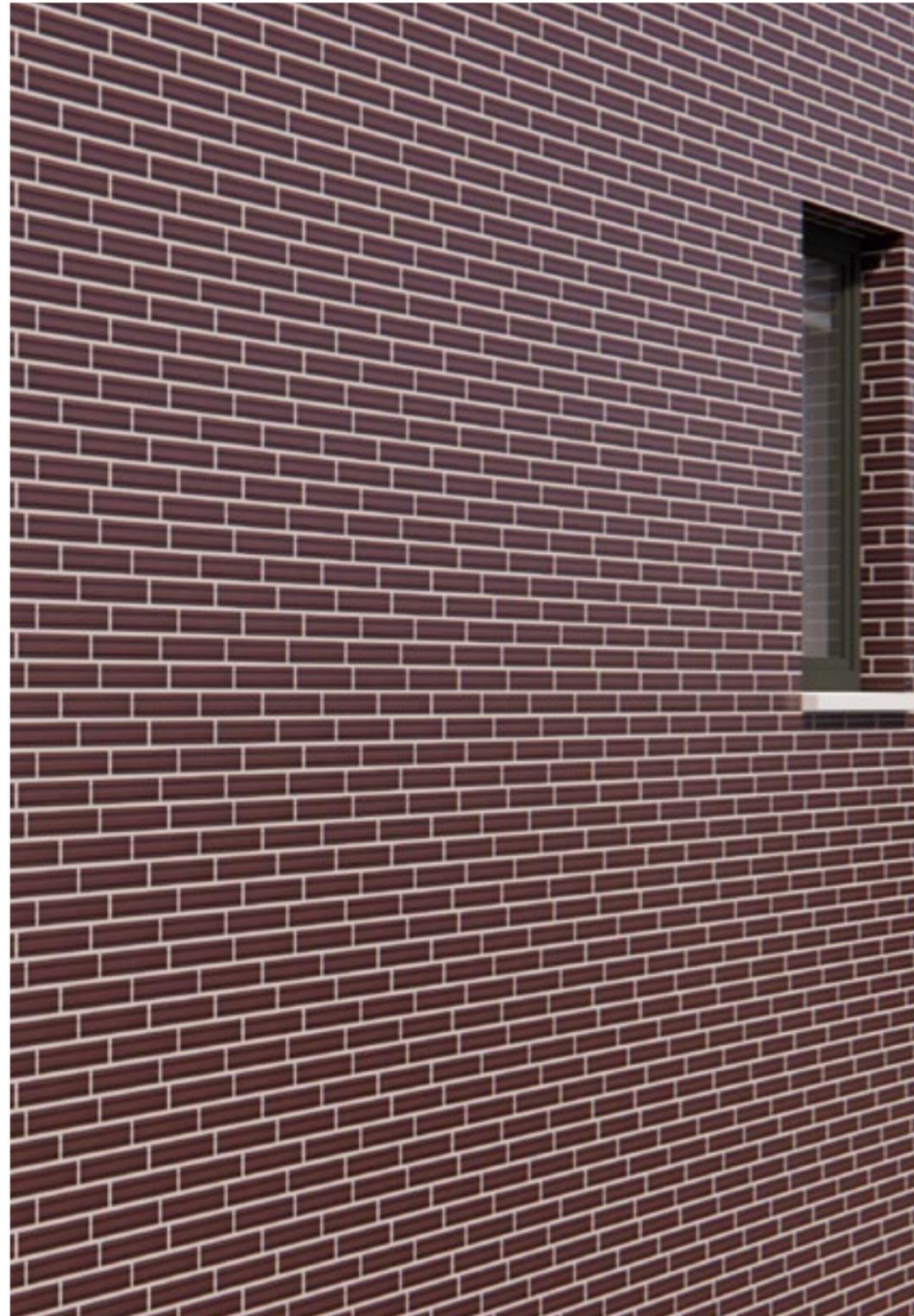
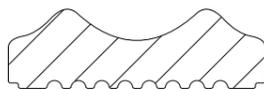
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 1141

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stretcher bond

StoCera 1000 colour shade:
350

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

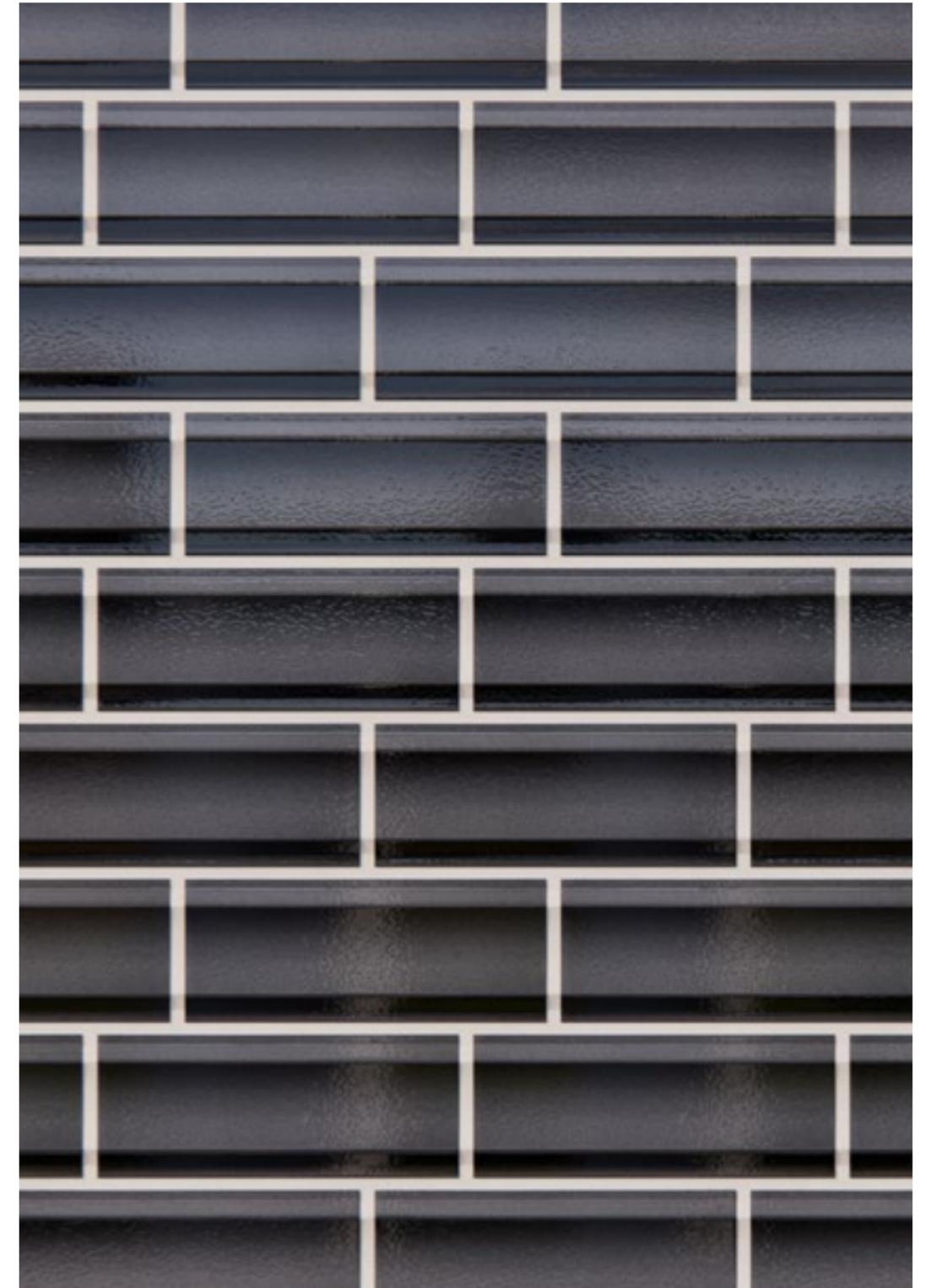
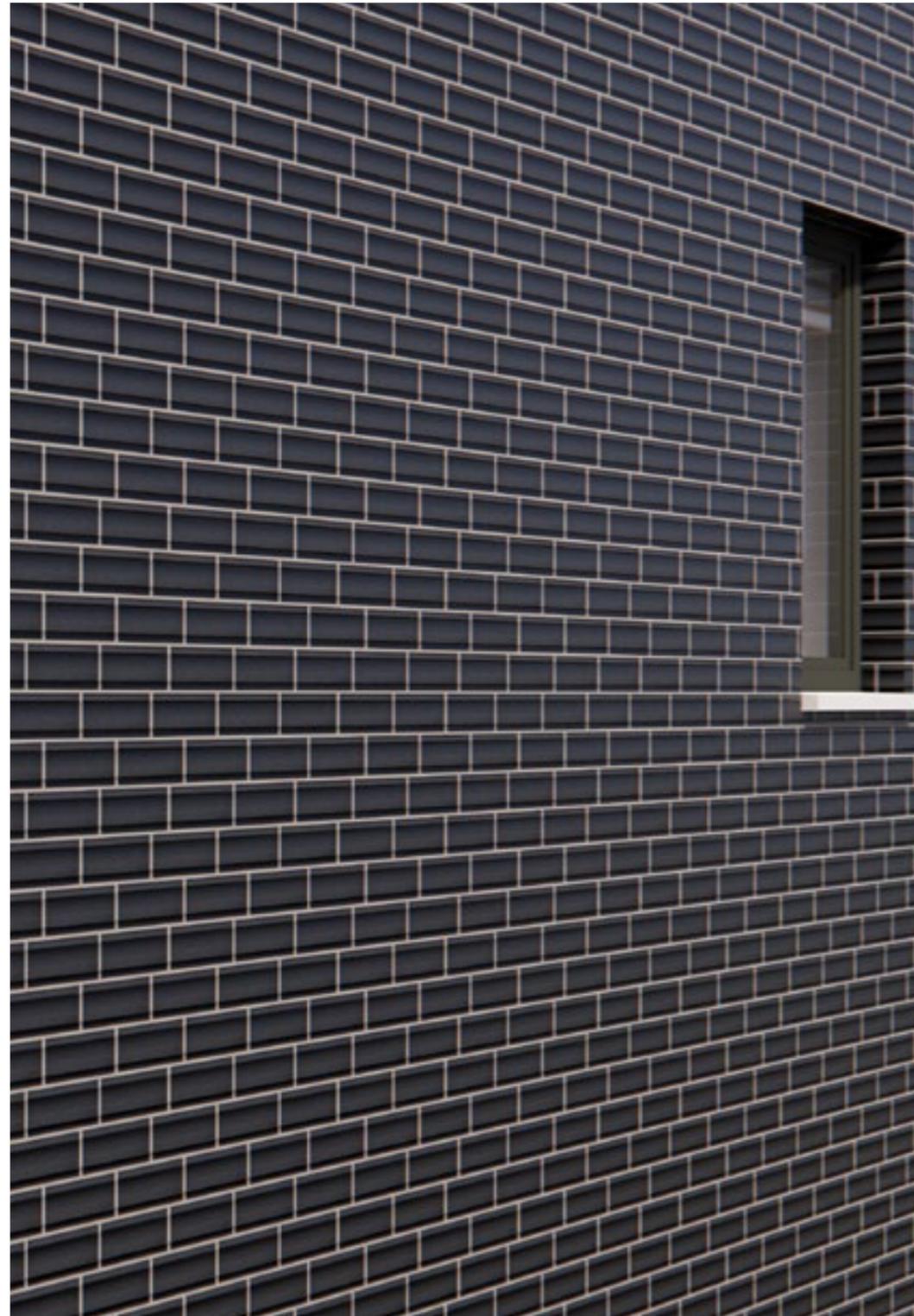
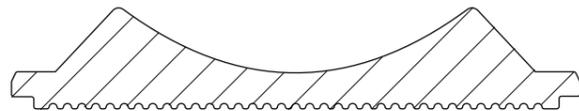
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 1160

Images

Viewing distances:
left image approx. 5 m
right image approx. 70 cm

Bond:
stretcher bond

StoCera 1000 colour shade:
300

Joint colour shade:
silver grey (StoColl FM-S)

Product information

Water absorption:
below 3 %

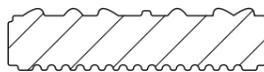
Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

Minimum order quantities:
100 m²

*for colour shades with TSR value of <25, system approval
available on request



StoCera 1000

Colour shades

Product information

Formats:
see overview

Water absorption:
below 6 %

Approved external wall insulation systems:
StoTherm Vario*
StoTherm Mineral*
StoTherm PIR*

Approved rainscreen cladding facade systems:
StoVentec C*

Delivery time:
on request

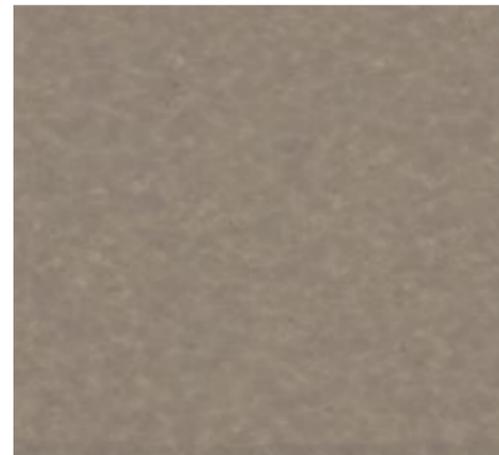
Minimum order quantities:
100 m²

Further colour shades on request

*for colour shades with TSR value of <25, system approval
available on request



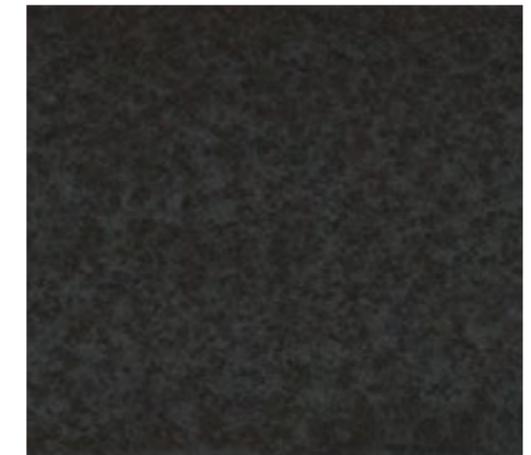
300 (TSR 46.26)



301 (TSR 19.61)



302 (TSR 13.49)



303 (TSR 9.424)



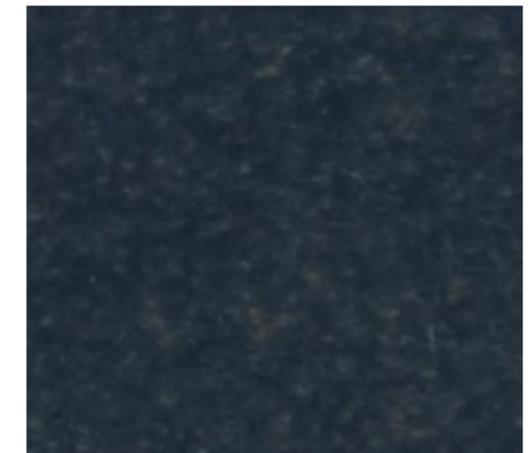
310 (TSR 32.47)



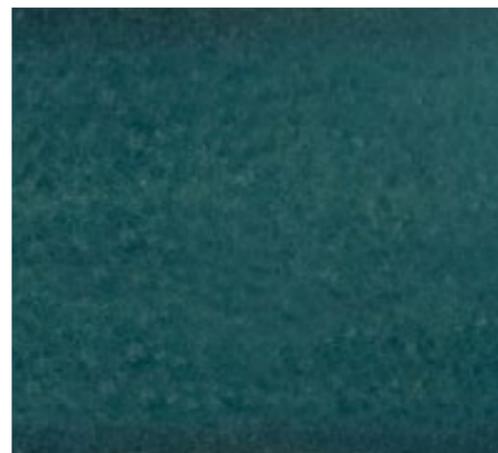
311 (TSR 26.66)



330 (TSR 22.95)



350 (TSR 17.79)



355 (TSR 21.7)



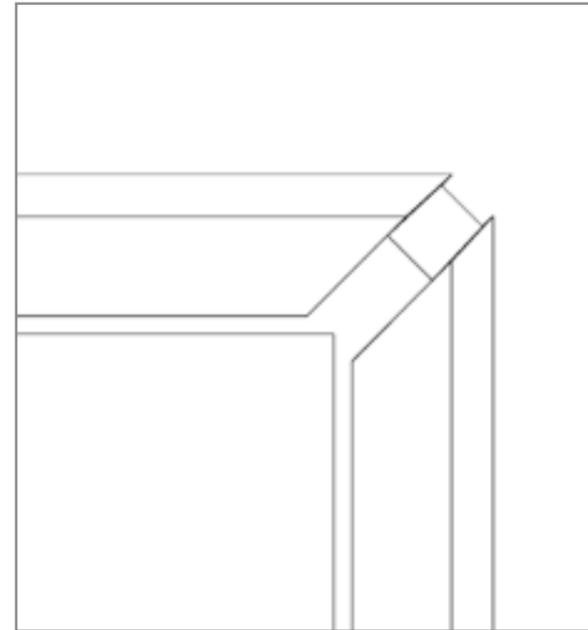
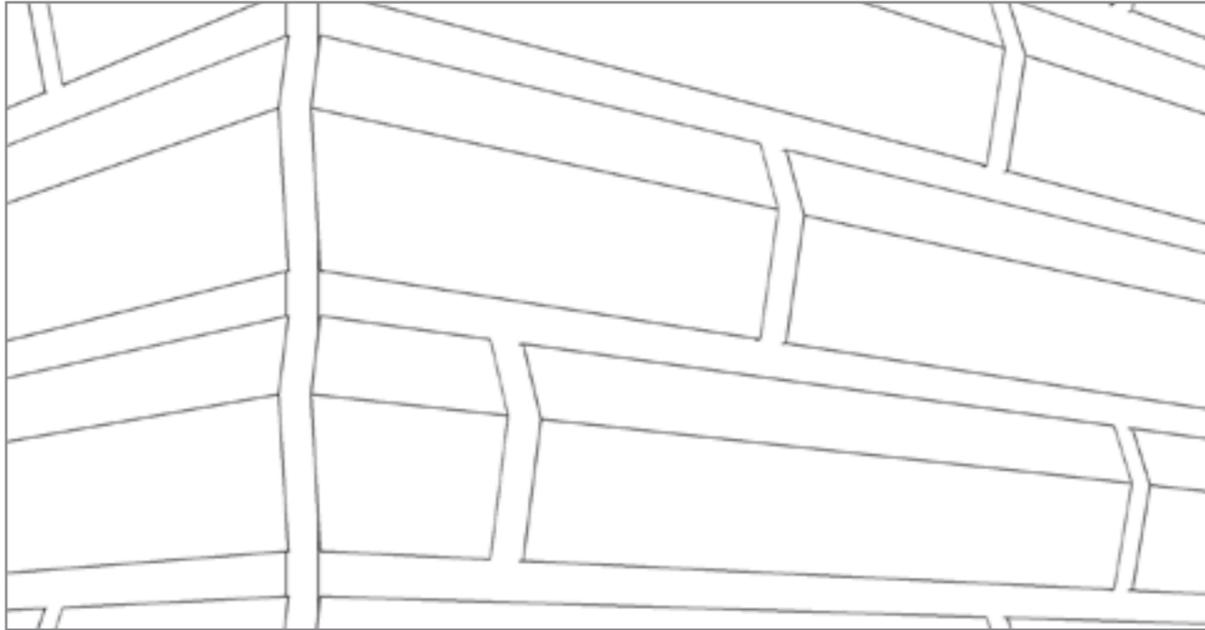
360 (TSR 31.79)



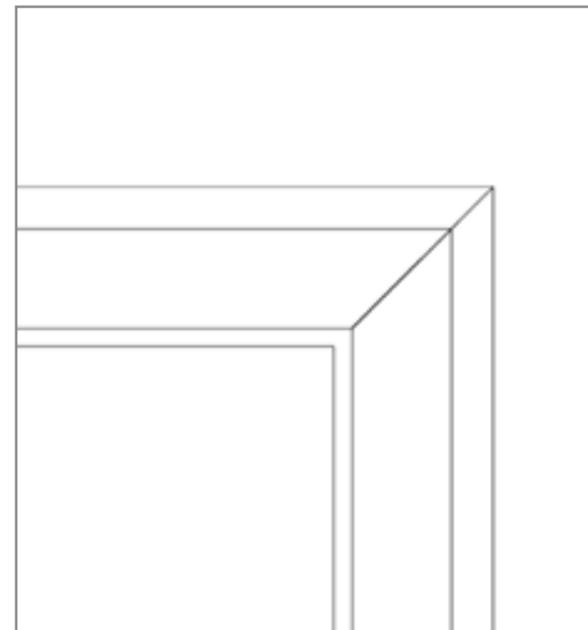
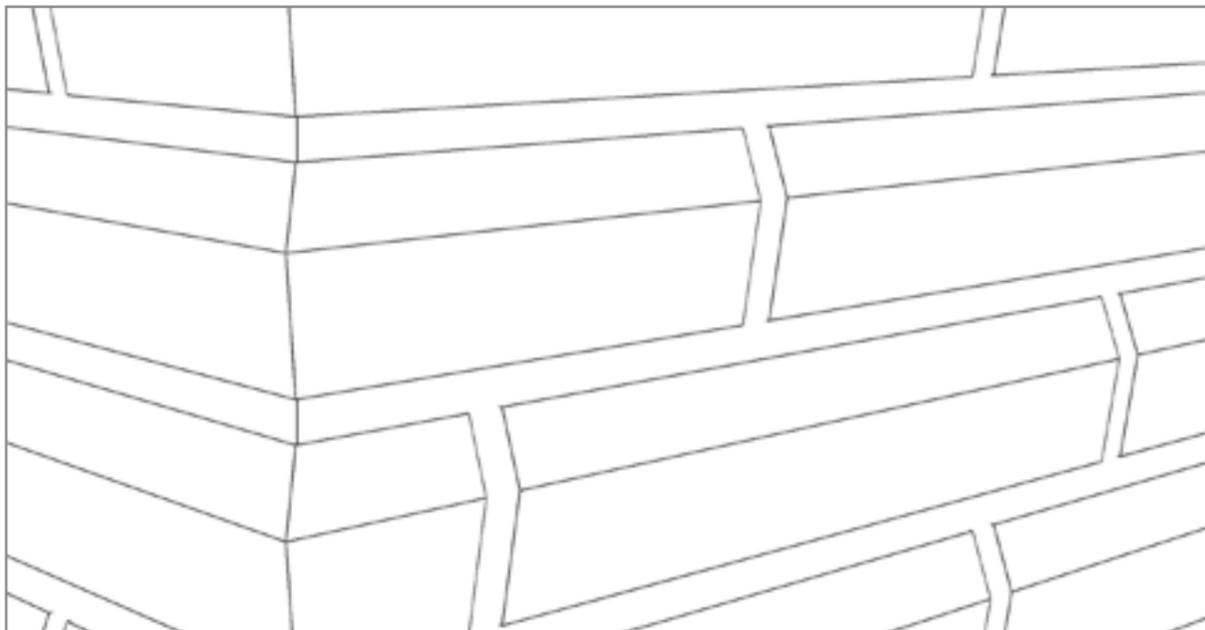
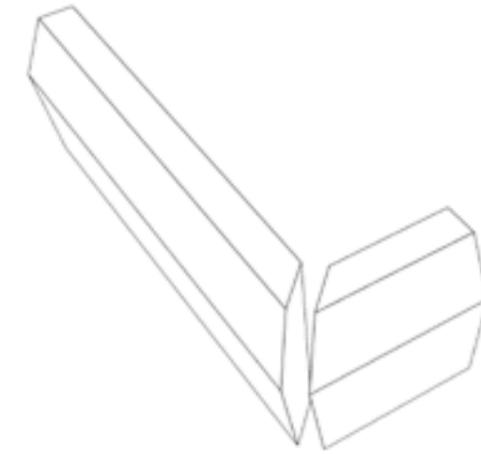
361 (TSR 22.71)

StoCera 1000

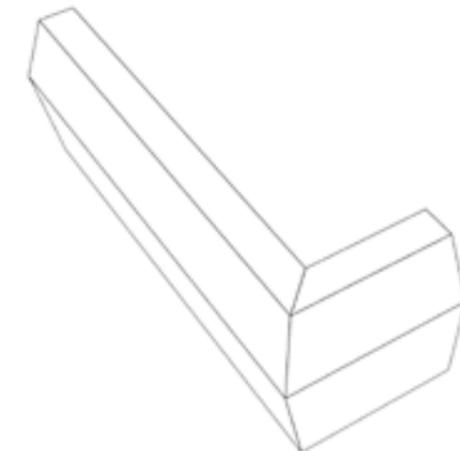
Corner and detail solutions

**Corner solution version 1:**

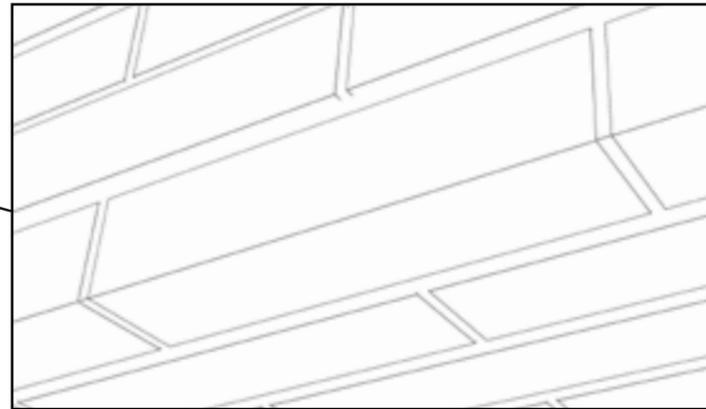
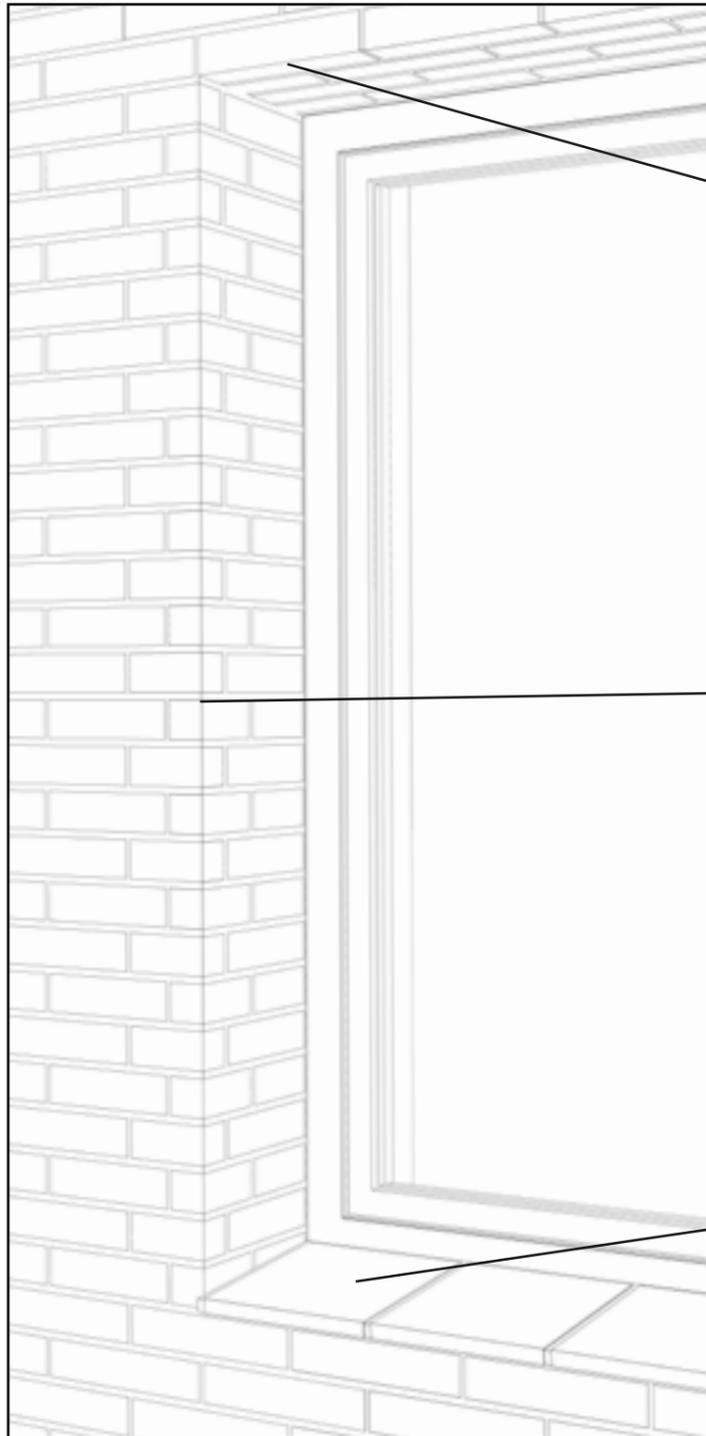
mitred, and installed and pointed with visible glazed edge and continuous joint on outer edge, on site

**Corner solution version 2:**

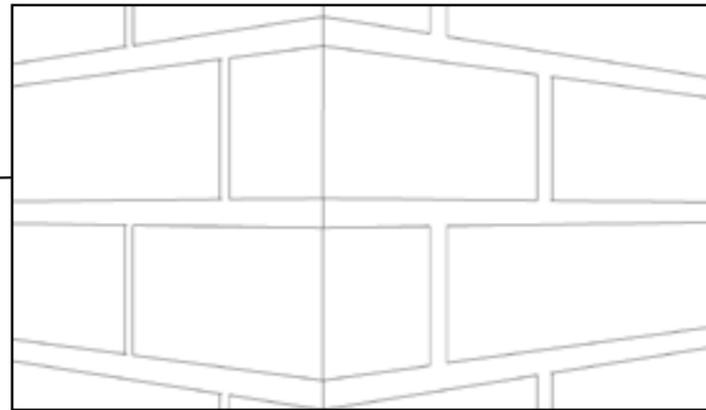
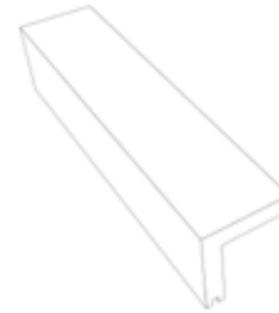
corner elements mitred and glued ex works (custom variant)



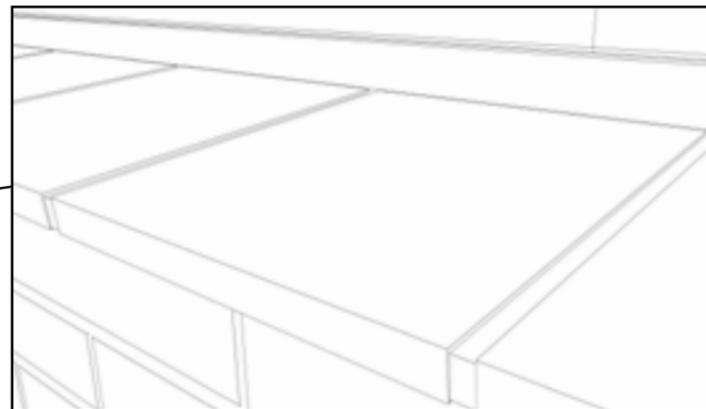
StoCera 1200



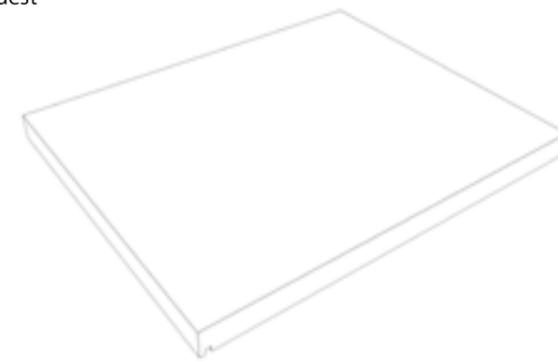
Lintel area: lintel brick slip available on request



Reveals and external corners: prefabricated corner angles available on request



Window sills/cover tiles: solutions for horizontal cladding with drip edge and inclination of at least 5 ° available on request





StoColl FM-S slurry pointing mortar Standard

Standard range (left)

- 1) Silver grey
- 2) Manhattan
- 3) Sand grey
- 4) Grey
- 5) Dark grey
- 6) Anthracite



1



2



3

Extended range

(right; matched to pointing mortar colour shades)

- 1) Natural white
- 2) Dark grey K
- 3) Grey K
- 4) Anthracite K
- 5) Grey white
- 6) Beige white
- 7) Silver grey K
- 8) Sand beige
- 9) Red grey
- 10) Orange
- 11) Brick-red, light
- 12) Brick-red, dark



4



5



6

Further colour shades on request



1



2



3



4



5



6



7



8



9



10



11



12





StoColl FM-K pointing mortar Optional

Standard range

- 1) Natural white
- 2) Dark grey
- 3) Grey
- 4) Anthracite
- 5) Grey white
- 6) Beige white
- 7) Silver grey
- 8) Sand beige
- 9) Red grey
- 10) Orange
- 11) Brick-red, light
- 12) Brick-red, dark

Further colour shades on request





StoColl FM-E injection pointing mortar

Optional

Standard range

- 1) Natural white
- 2) Beige white
- 3) Grey white
- 4) Silver grey
- 5) Grey
- 6) Medium grey
- 7) Dark grey
- 8) Red

Further colour shades on request





References

Sport Schuster, Munich, DE

Sports hall, Berlin, DE

Church and parish centre, Zagreb, HR

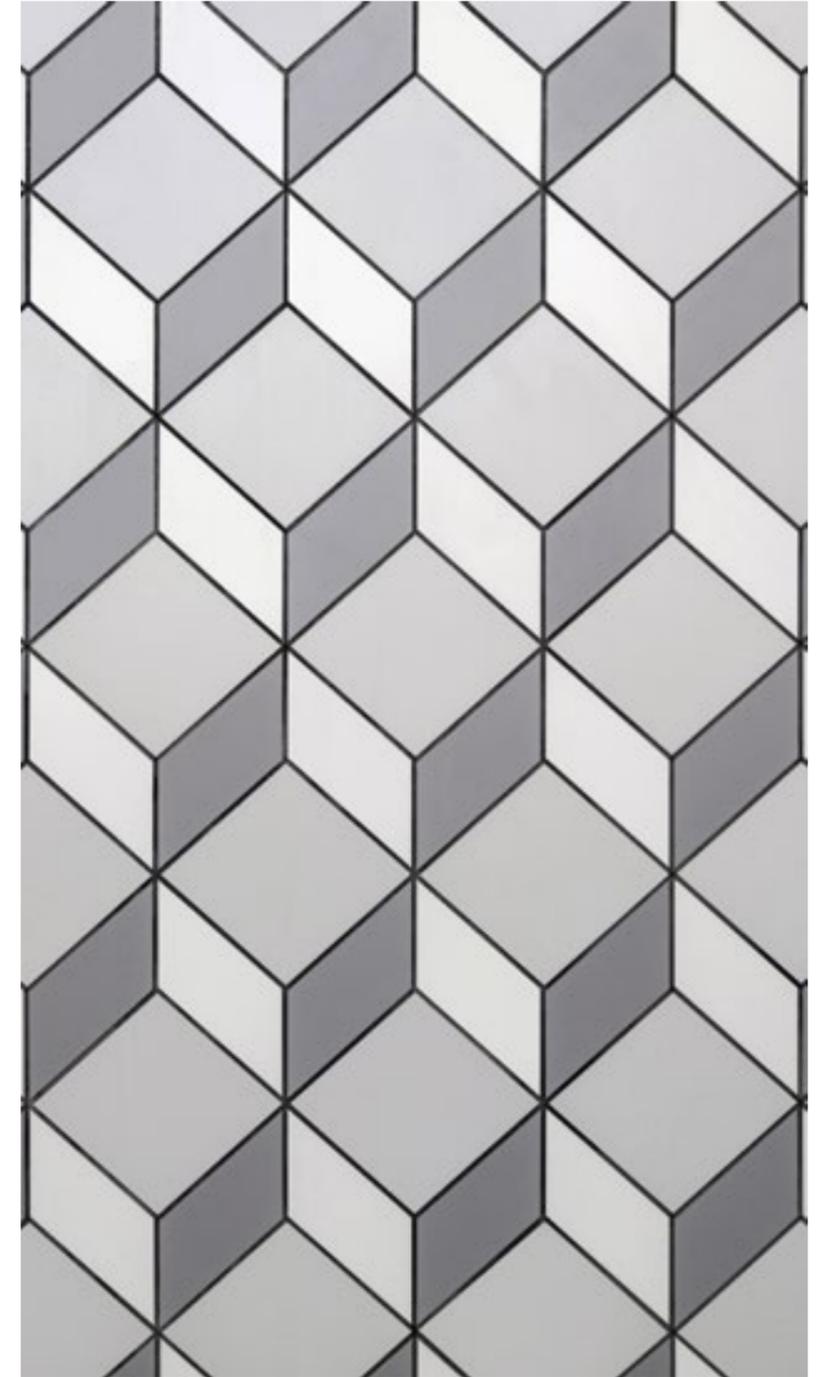
Zurlindenstrasse town house, Zurich, CH

Residential and commercial building Badstrasse 36, Baden, CH



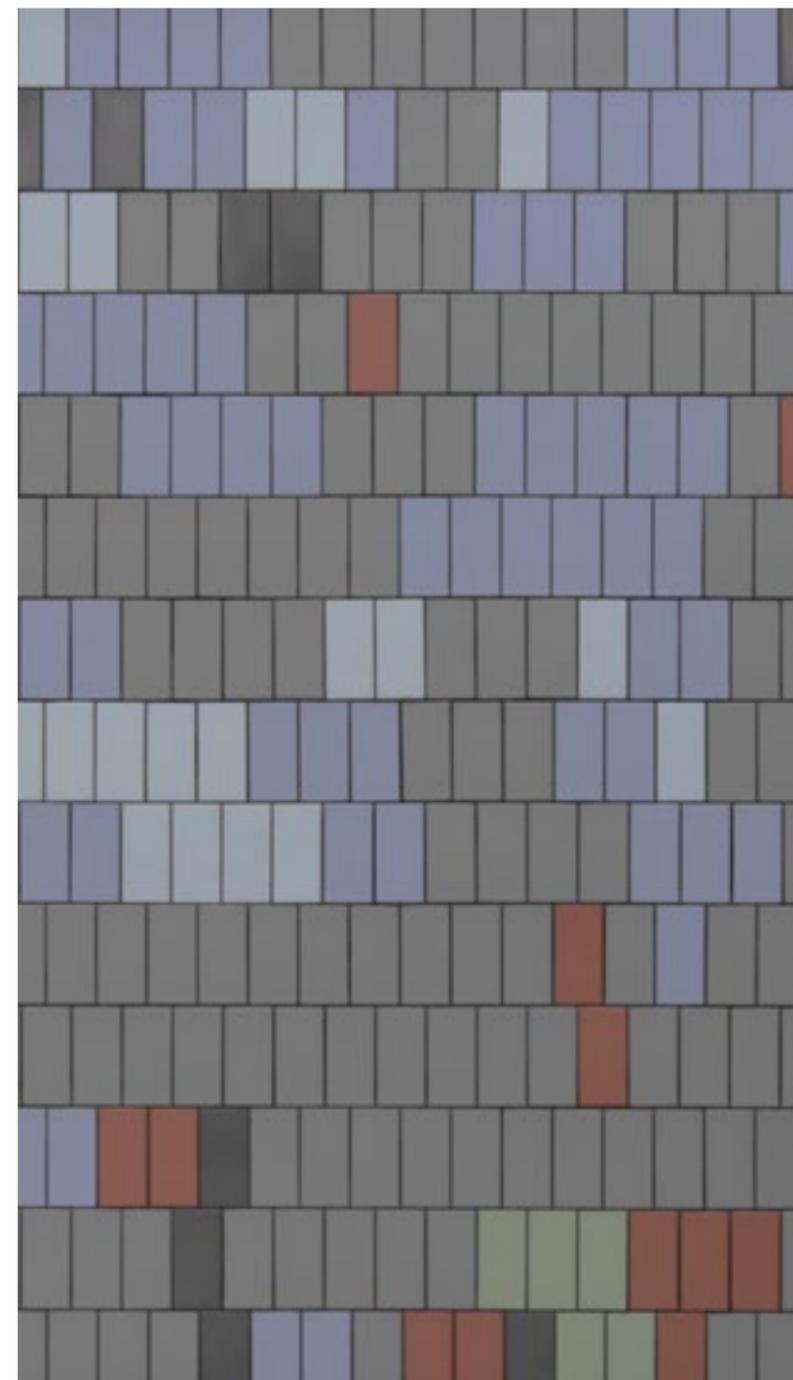
Sport Schuster Munich, DE

Sport Schuster, Munich, DE
Design: Ochs Schmidhuber Architekten, Munich, DE
Execution: Yazar Malerfachbetrieb, Garching, near Munich, DE
Sto expertise: StoTherm Mineral; StoCera 100, colour shades 100, 101, 103, formats: custom formats
Photo: Gerhard Hagen, Bamberg, DE



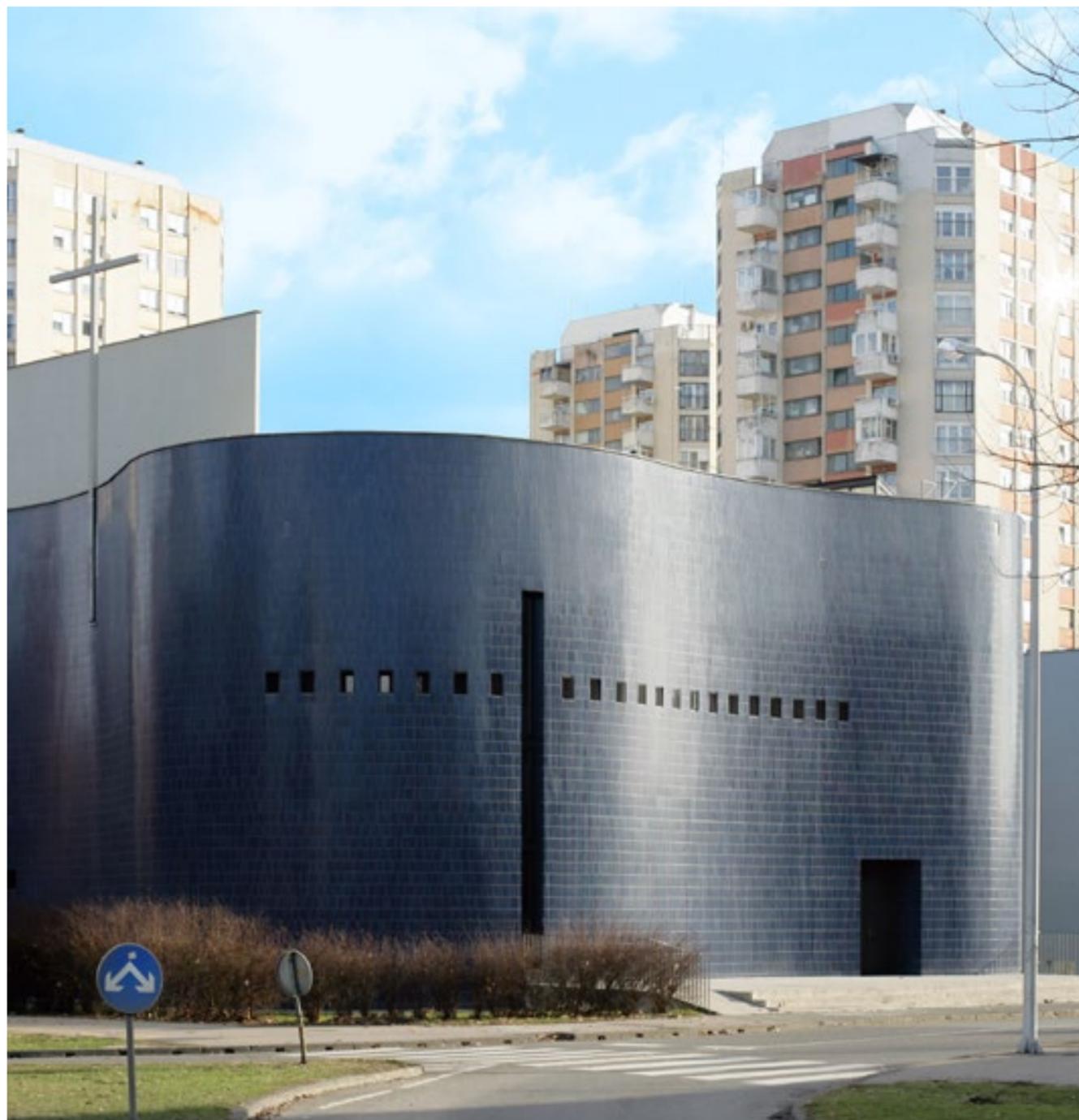
Sports hall Berlin, DE

Building owner: Treptow-Köpenick district authority,
Berlin, DE
Design: Veauthier Meyer Architekten, Berlin, DE
Sto expertise: StoCera 100, various colour shades, format:
119 x 244 mm
Photo: Christoph Rokitta, Berlin, DE



Church and parish centre Zagreb, HR

Building owner: Parish of St John the Evangelist, Zagreb, HR
Design: Andrej Uchytíl & Renata Waldgoni, Zagreb, HR
Sto expertise: StoCera 1000, custom colour shades, format: 240x52 mm
Photo: Fundació Mies van der Rohe, Barcelona, ES



Zurlindenstrasse town house Zurich, CH

Building owner: Huggenbergerfries Architekten AG,
Zurich, CH
Design: Huggenbergerfries Architekten AG Zurich, CH
Execution: Robert Spleiss AG facade construction,
Küsnacht, CH; Peter Schönbächler, Affeltrangen, CH
Sto expertise: StoVentec C
Photo: Beat Bühler, Zurich, CH



Residential and commercial building Badstrasse 36 Baden, CH

Building owner: Dosenbach-Ochsner AG, Dietikon, CH
Design: Schoop De Santis Architekten, Baden, CH
Execution: Ehrat AG, Dietikon, CH
Sto expertise: StoTherm Vario; StoCera
Photo: Agrob Buchtal, Schwarzenfeld, DE



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