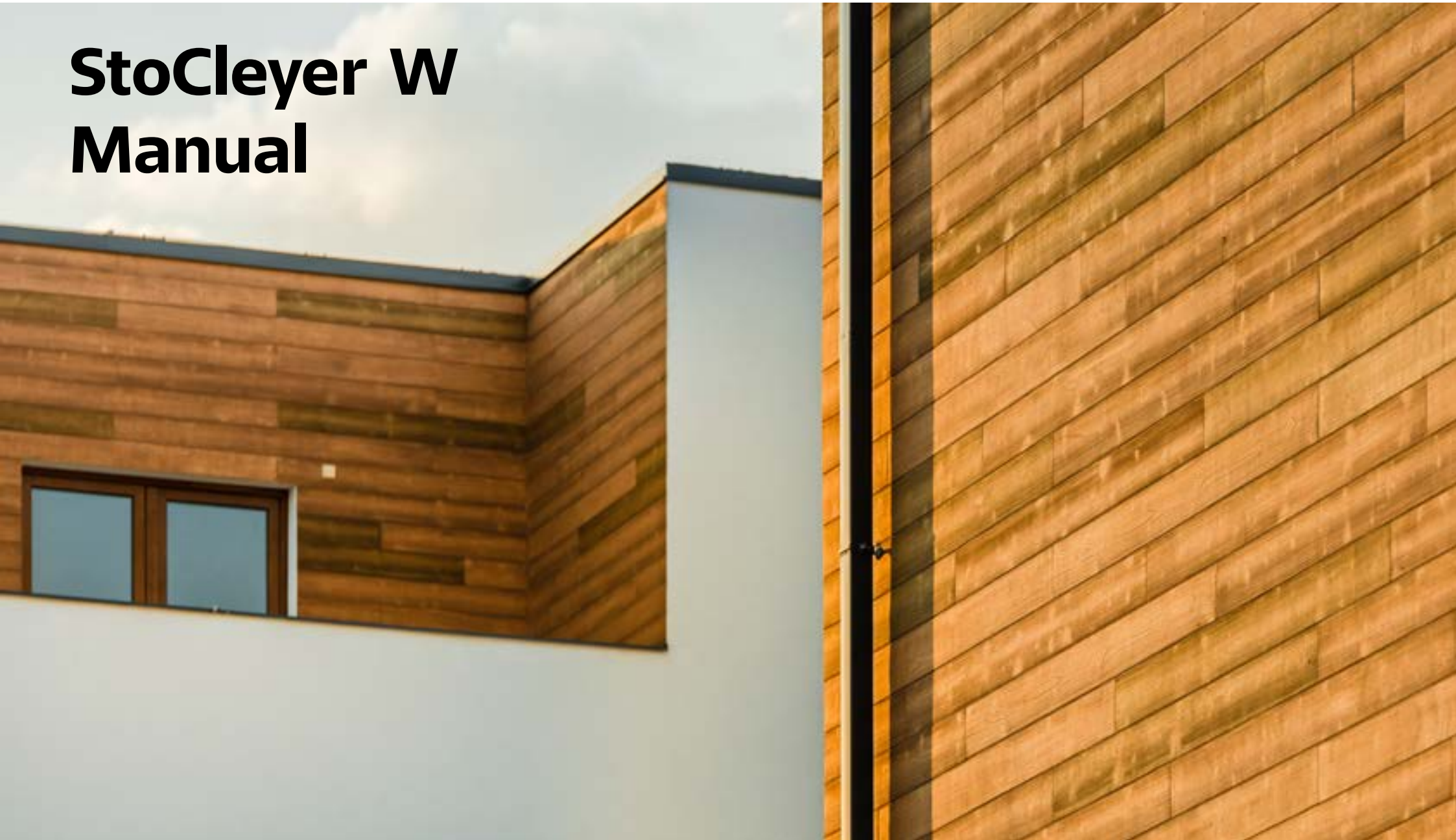
Building with conscience.

StoCleyer W Manual



Title image reference
Byty Šibeník, Olomouc, CZ
Building owner: JTH Group a.s., Teplice, CZ
Architecture: Alfaprojekt Olomouc, Olomouc, CZ
Specialised trade: Fortex stavby s.r.o., Jílová, CZ
Sto proficiency: StoTherm Vario, StoCleyer W, StoSilco®
Photo: Tomáš Malý, Prague, CZ

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 their 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 information on the products contained in the Technical Data Sheets and system descriptions/approvals must be observed.

The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

Contents

1. Product information

2. Material highlights

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4. Lasure: Impressions of timber types

5. Paint: Covering coatings

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- 6.2 External render transitional area
- 6.3 Corner formation
- 6.4 Joints

7. References

8. Sample box

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Design and product properties

Authenticity

Variable joint width:	for the creation of characteristic timber facades with emphasis on bond and board format
Laying pattern:	any conceivable bond simply by cutting to size with a utility knife
Malleability:	curves are possible starting from 200 mm
Easy integration:	material combinations with StoSignature or StoCleyer B

Surface design

Panel:	200 x 16 cm
Textures:	no visible repetitions due to a minimum of 36 different textures in every delivery
Coating:	lasure effect or covering
Colour shade selection:	all lasure shades and colour shades in the StoColor System
Joint colour shade:	in colour shade with dark grey background

The safety of a system

Weight:	≤ 10 kg / m²
Reaction to fire:	approved for all building classes
Compatible systems:	StoTherm Mineral, StoTherm Vario, StoTherm Classic, StoTherm Wood, StoVentec R on timber and solid construction walls



Reference, right:
Pod Babou, Kuřim, CZ
Building owner: UP constructions s.r.o., Brno-Židenice, CZ
Architecture: UP constructions s.r.o., Brno-Židenice, CZ Application: UP constructions s.r.o., Brno-Židenice, CZ
Sto proficiency: StoTherm Vario, StoCleyer W, Sto-Silkolit K 1.5
Photo: Tomaš Slavik, Prague, CZ

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Material combinations

No system change required for combinations

From left to right:
StoDeco
StoSignature
StoCleyer B
StoCleyer W
StoEcoshape

For the impression of framework or accentuated areas

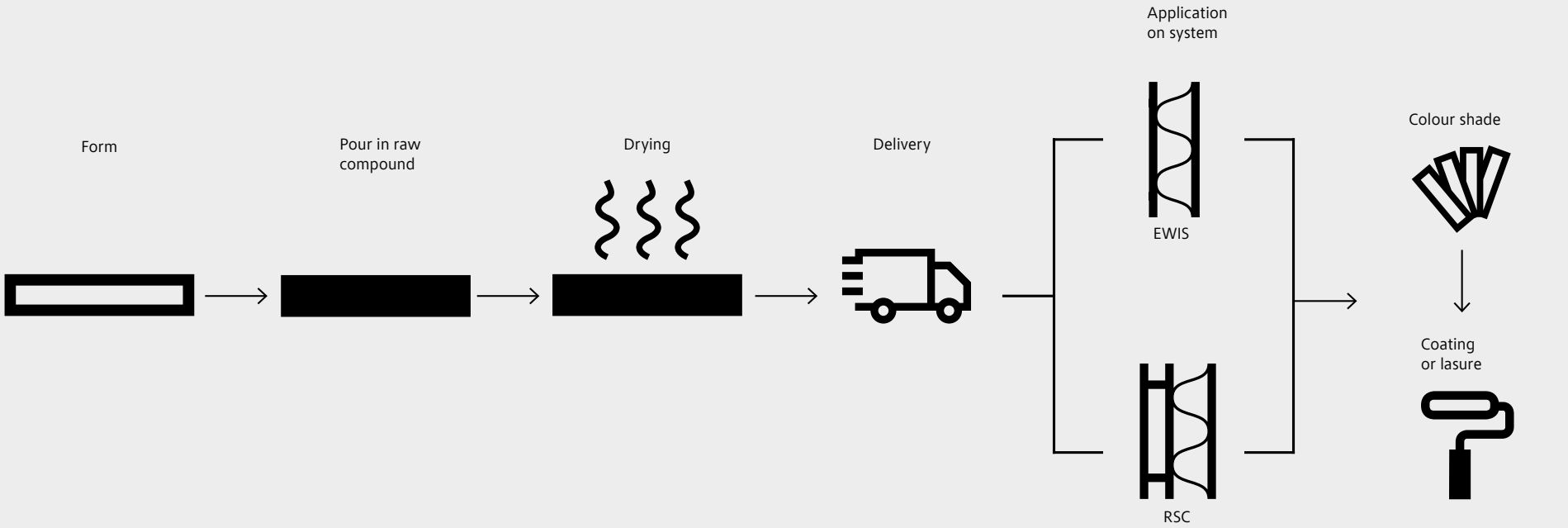
No separation due to permanently elastic joint formation

On request: trowel cut for visual separation



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Manufacturing process



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StoCleyer W in the system

StoTherm external wall insulation systems

The StoTherm system family comprises nine tried-and-tested external wall insulation systems. You can respond flexibly to the diverse requirements of your project without having to forego the security of a tested solution that has approval under building inspection requirements. The following system solutions are available in cases where StoCleyer W is being used as cladding:

- StoTherm Classic®
- StoTherm Classic® L/MW
- StoTherm Vario
- StoTherm Mineral
- StoTherm Wood

Insulating layer



- Insulant (mineral wool shown here), bonded to wall structure and anchor-fixed
- Anchor fixing through reinforcement layer in the case of heavy surface materials

Carrier layer

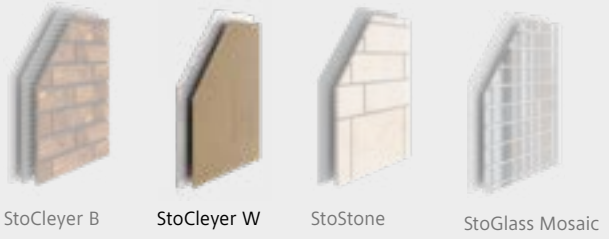
Reinforcing layer



- Reinforced base coat, organic or mineral depending on system requirements

Material layer





Material layer options

- StoSignature: rendered surfaces
- StoEcoshape: prefabricated render elements
- StoDeco: three-dimensional facade elements
- StoBrick: brick slips
- StoCleyer B: resin brick slips
- StoCleyer W: timber effect panels
- StoStone: natural stone tiles
- StoGlass Mosaic: glass mosaics

StoVentec rainscreen cladding facades

The StoVentec system combines the building physical advantages of a ventilated facade with virtually unlimited colour shade, Texture, and material design possibilities. This tried-and-tested system with European Technical Approval can even be used to realise designs with heavy cladding on ceiling surfaces (i. e. overhead). The following system solution is available in cases where StoCleyer W is being used as facade cladding:

- StoVentec R



- Insulant: mineral wool with nonwoven fabric facing
- Fixed with insulation fasteners



- Sub-construction comprising wall brackets and T-profiles
- Carrier board



- Reinforced base coat, organic or mineral depending on system requirements

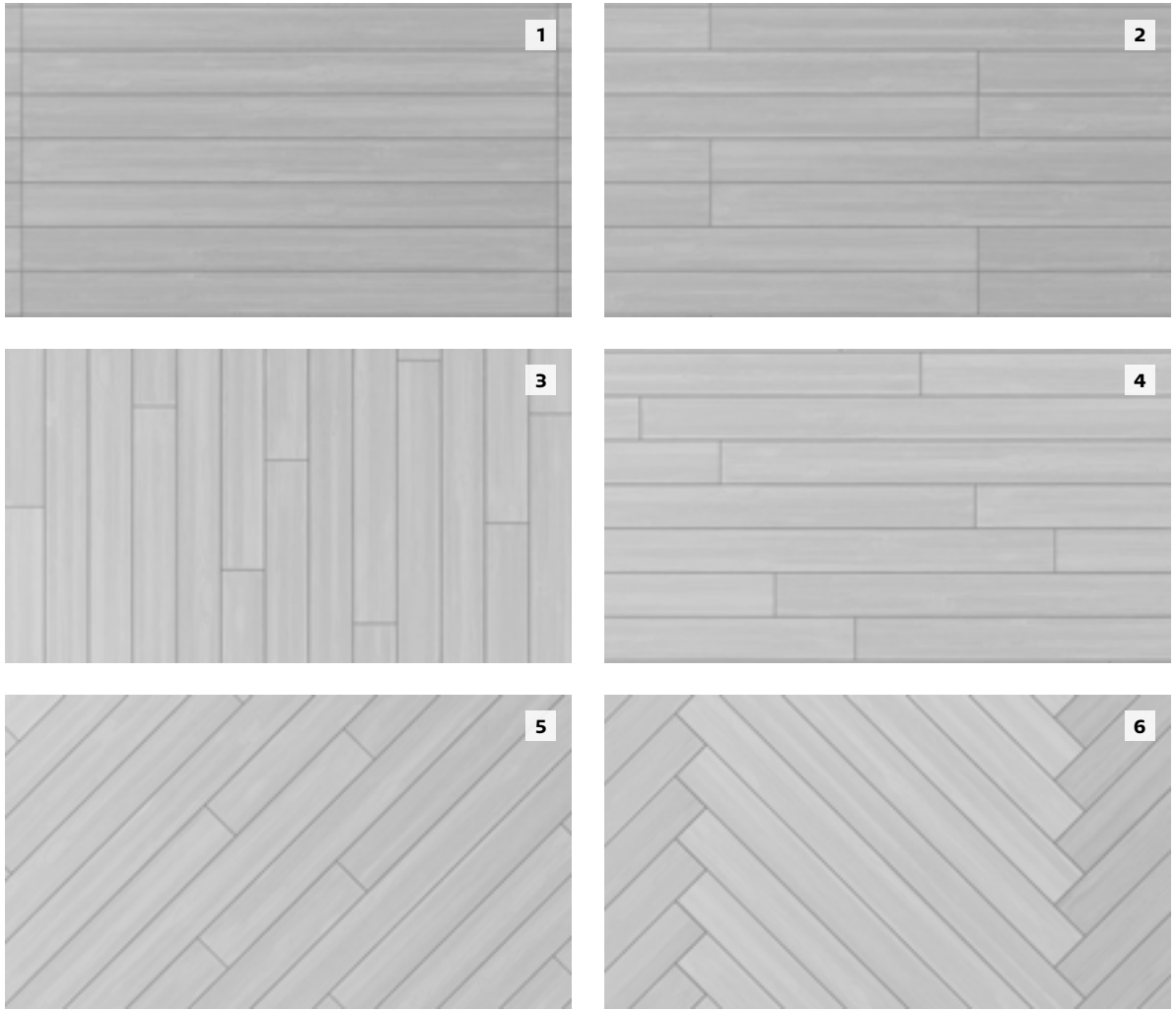
The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

Effect of joint and laying pattern

Timber facades are connected to the sub-construction by design.
The regularity of the sub-construction informs expectations of how a timber facade should look.
StoCleyer W opens up the opportunity not only to use traditional laying patterns but also to create accents with unusual patterns.

Here in comparison:
- Regular laying along an imaginary sub-construction (1, 2)
- Irregular bond, laid in various axes (3 – vertical, 4 – horizontal, 5 – 45 ° angle)
- Single basket weave bond (6)

Note: For illustrative purposes, the joints are larger and therefore appear more prominent than usual.



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Notes and tips

Application
StoCleyer W creates an authentic timber appearance on virtually any substrate. The panels are quick to apply and do not need to be adapted to the sub-construction. They can be combined with other materials without additional effort. On lightweight, energy-efficient facades, they offer a cost-effective alternative to genuine timber and are characterised by durability and low maintenance.

Laying pattern
StoCleyer W can be used both in the application of traditional laying patterns and to create unusual patterns for the purpose of accentuation.

Joint width
Butt joints and bed joints between the panels can be used to compensate for the manufacturing tolerances of substrates and cladding materials, for example. The joint width also has a strong influence on the overall appearance of the facade (see page 34). For the StoCleyer W shown in the manual, a joint width of 2 – 3 mm was used for the butt and bed joints.

Joint colour shade
Timber facades are characterised by the perception of the individual boards; this makes laying patterns visible. The dark grey adhesive gives a subtle nod to this. Alternatively, a levelling coat can be applied with StoColor Jumbosil. Colour shade: Y10 90 18.

Movement joints
StoCleyer W can be applied to the StoTherm and StoVentec insulation systems without field demarcation joints.

Application
Craftsmanship and compliance with the instructions for use and application guidelines are essential for a good result. Set aside enough time.

StoCleyer W should be applied according to the laying plan:
- Work from top to bottom
- Make allowance for constraint points like openings and connections
- Plan the cuts to size

If possible, start work on a facade side that is not directly visible, as the processes within the team will improve and become more coordinated over the course of the project.

Always press the panels into the prepared adhesive bed evenly, use a roller sleeve or a finishing spatula. The bonding mortar must emerge and fill the joint completely.
Do not press on at isolated points. Unevenness in the substrate and bonding will be visible subsequently. Look at the freshly laid surface from the usual viewing angle and rework if necessary.

Do not use mortar that has hardened.
Do not work in direct sunlight.

Colour design
Apply 2 coats to protect StoCleyer W. Lasure effect or covering coatings can be used. Covering coatings will cover the joint layout.
Recommended products
- StoAqua Top Satin
- StoColor Dryonic®
- StoColor Dryonic® S
- StoColor Dryonic® G
- StoColor X-black
- StoColor X-black S

Applying X-black Technology is recommended for dark colour shades.
Using a product with SunBlock Technology is recommended for high colour stability.

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StoCleyer W: Authentic timber appearance

StoCleyer W gives the impression of a classic timber facade in a system-integrated solution. Panels measuring 200 x 16 cm with a minimum of 36 different textures create a vibrant appearance without visible repetitions. Variable joint widths, free laying patterns, and lasure effect or covering coatings in the StoColor System give free rein to design.

The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

StoCleyer W impression of ebony (lasure)

In combination with StoSignature Texture: Rough 1



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StoCleyer W impression of oak (lasure)

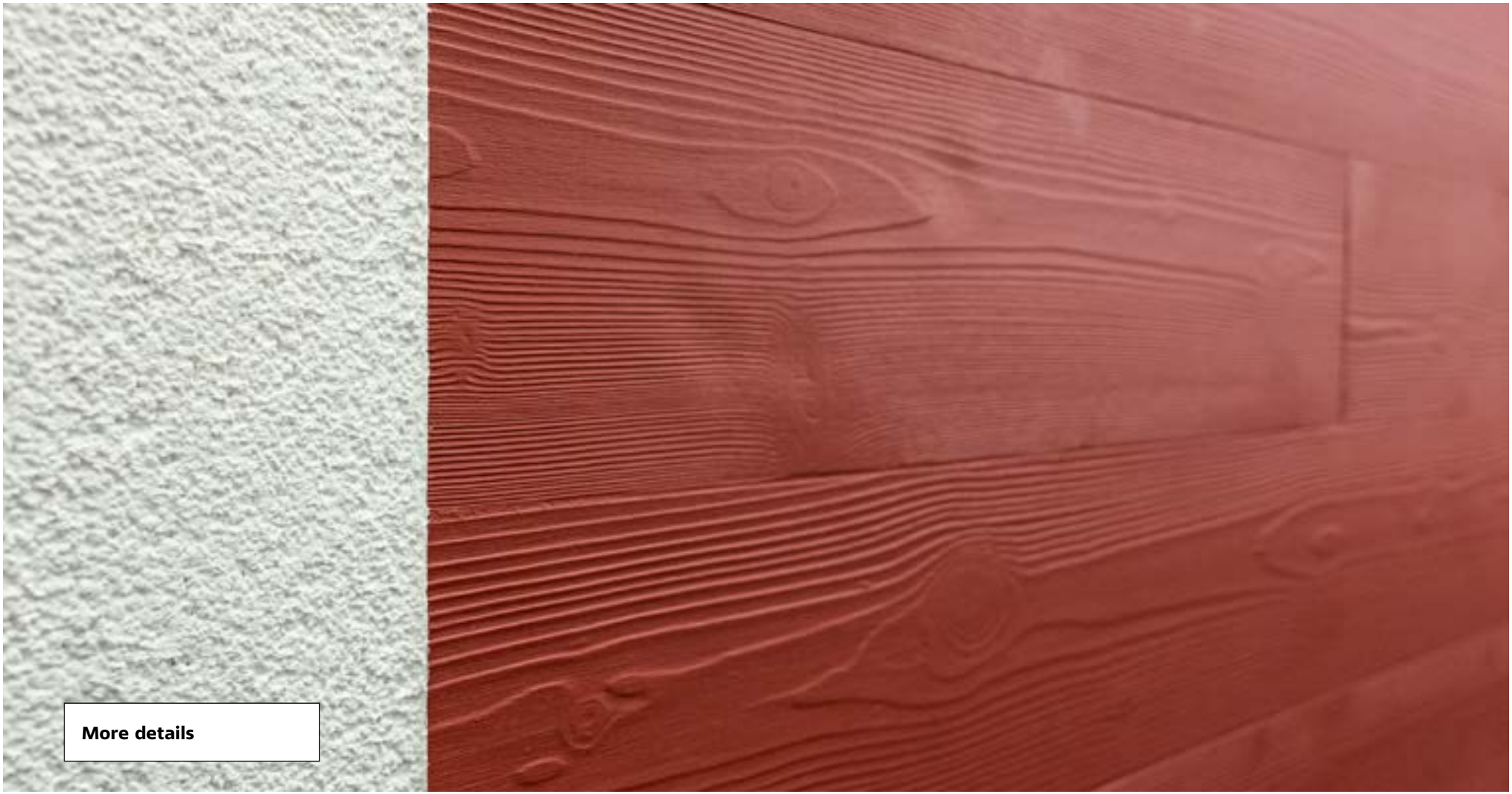
In combination with StoSignature Texture: Rough 1



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StoCleyer W with covering coating

In combination with StoSignature Texture: Rough 1



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Example panel

Technical data – StoCleyer W
Format: 200 cm × 16 cm (typical board format)
Thickness: approx. 3 mm

Surface texture and colour scheme:
Panels in beige with slightly yellowish shade
StoColor System: colour shade Y10 90 18
Delivery includes an average of at least 36 different textures to avoid repetitions

Adhesive and joint:
StoColl Mineral HP (cement grey)

Minimum order quantity:
1 box = 8 m²

Suitable substrates:
StoTherm systems
StoVentec R
Masonry
Timber framework
Timber stud construction
Modular construction type
Due to low stress, StoCleyer W can be used on most substrates as cladding without any significant restrictions. Contact the Technical Support Centre in case of uncertainties.



The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

Impressions of timber types
StoColor System lacquers and lasures

Once they have been laid, the base panels can be coated with lasure effect or covering products. Lasure effect coatings are the preferred choice for an authentic timber appearance.

Recommended lasure:
StoAqua Top Satin
The colour shades shown are based on those most popular with customers. Furthermore, all colour shades from the StoColor colour fan for lacquers and lasures are possible without restriction.

Important notes for application:
The end result depends on the number of coats and the quality of the craftsmanship.
- At least two coats are required.
- For optimum colour perception, application on a sample surface area is recommended.


Silver fir


Ash


Oak


Pine


Cherry


Teak


Mahogany


Walnut


Rosewood


Ebony



See the StoColor colour fan for lacquers and lasures for more colour shades.

Covering coatings

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Impression of silver fir

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39300L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



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Impression of ash

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39301L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



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Impression of oak

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39302L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



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Impression of pine

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39303L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



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Impression of cherry

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39304L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



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Impression of teak

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39305L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

Impression of mahogany

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39306L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

Impression of walnut

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39307L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

Impression of rosewood

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39308L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



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Impression of ebony

Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Lasure:
2 coats of StoAqua Top Satin
Colour shade 39309L

In combination with:
StoSignature Texture: Rough 1 with Stolit® K 2.0 white



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Covering coatings
StoColor System

Once they have been laid, the base panels can be coated with lasure effect or covering products. For the colour shade to have an even and intense impact, a covering coating is recommended.

Recommended paints:

• StoColor Dryonic®/S/G
• StoColor X-black/S
The colour shades shown are based on those most popular with customers. Furthermore, all colour shades from the StoColor System are possible without restriction.

Important notes for application:
For colour shades with an LRV <15, we recommend seeking project release from the TSC and using a paint system to reduce solar heating (X-black Technology).
At least two coats are required.
For optimum colour perception, application on a sample surface area is recommended.



B68 40 10
Russian Green



R19 37 27
Falun Red



See the StoColor System colour fan for more colour shades.

Lasures

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Covering coating
B68 40 10 Russian Green

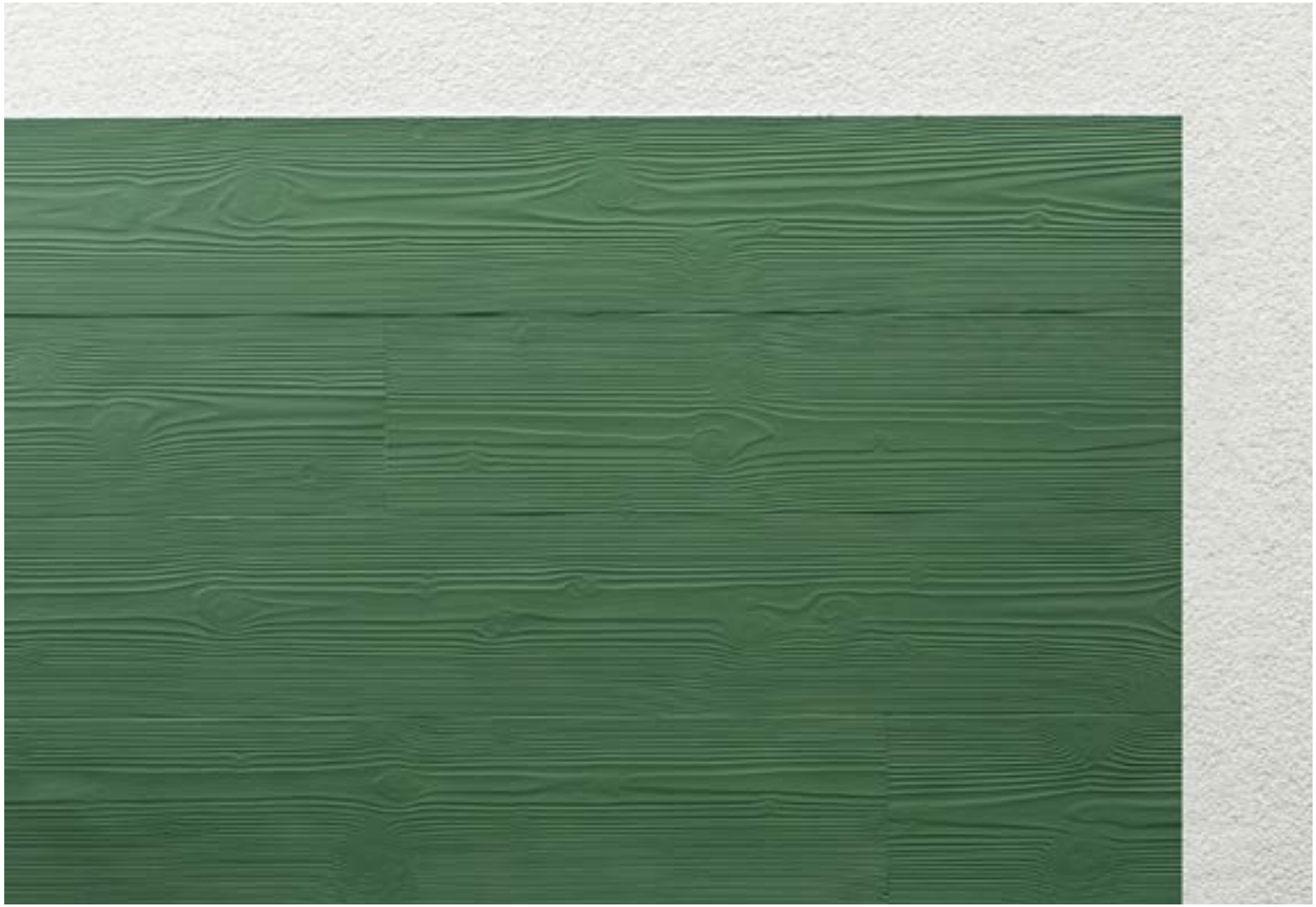
Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Paint:
2 coats of StoColor Dryonic®
Colour shade: B68 40 10 Russian Green
LRV: 11

In combination with:
StoSignature Texture: Rough 1
with Stolit® K 2.0 white



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Covering coating
R19 37 27 Falun Red

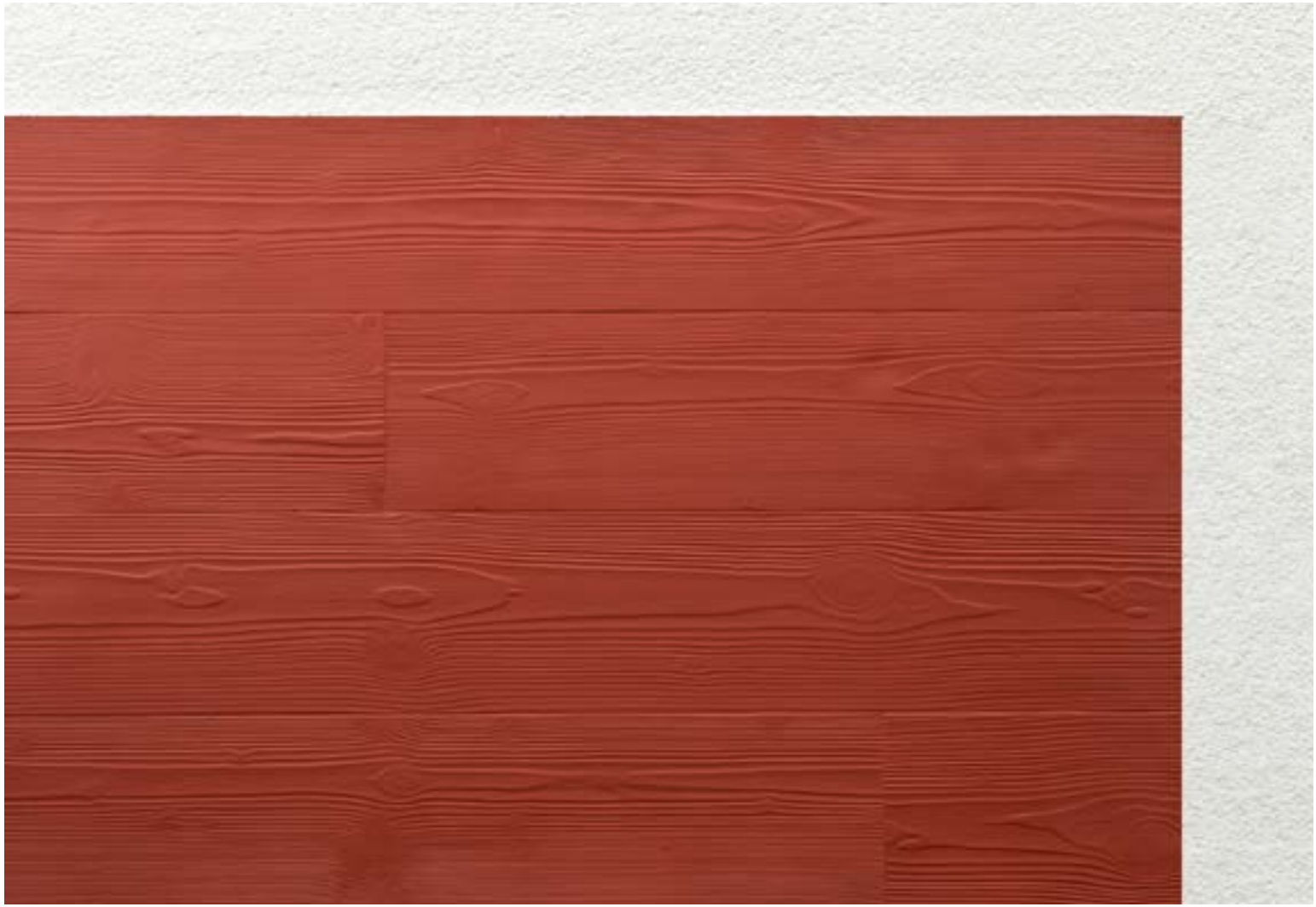
Detail view
(viewing distance approx. 2 m)

Technical values
Format: 200 x 16 cm

Adhesive:
StoColl Mineral HP (cement grey)

Paint:
2 coats of StoColor Dryonic®
Colour shade: R19 37 27 Falun Red
LRV: 10

In combination with:
StoSignature Texture: Rough 1
with Stolit® K 2.0 white



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Details

Application of lasures in different coating thicknesses for an authentic timber appearance

Both the quality and the coating thickness of a lasure are decisive factors in its ultimate appearance.

Additional coatings can be applied to individual panels within the surface to accentuate them specifically. Using different treatments for different panels creates a structured effect on the surface which mimics the aging process that is typical of timber.

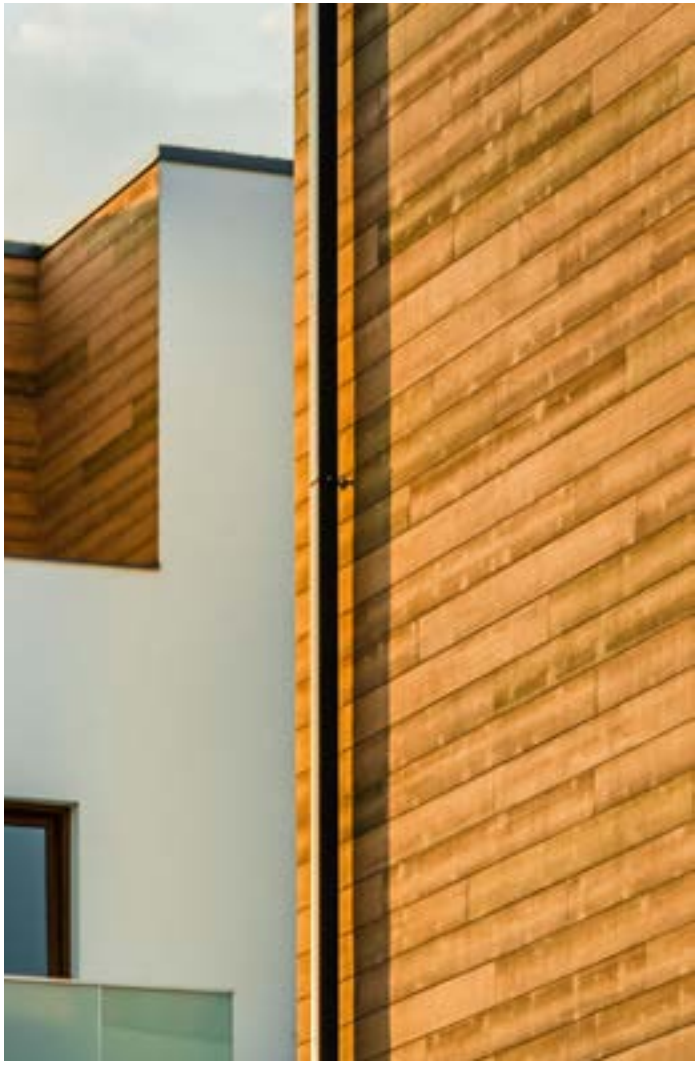
We recommend creating sample surface areas.



Layer 1 of lasure



Layer 2 of lasure



Reference, right:
Byty Šibeník, Olomouc, CZ
Building owner: JTH Group a.s., Teplice, CZ
Design: Alfaprojekt Olomouc, Olomouc, CZ
Application: Fortex stavby s.r.o., Jílová, CZ
Sto proficiency: StoTherm Vario, StoCleyer W, StoSilco®
Photo: Tomáš Malý, Prague, CZ

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Details
External render transitional area

StoCleyer W can be integrated into existing render surfaces relatively easily. Connection formation is an easy and straightforward process.

Upper completion
- Have a thick layer of bonding applied by a professional.
- The finishing render is applied with light covering in the usual way to the panels, which have already been installed and neatly masked.
- This application ensures a neat connection and encourages rainwater to run off.

Side and lower completion
Apply the finishing render up to the masked panels to ensure an even and clean looking connection.







Reference, right:
Barantal, Lužianky pri Nitre, SVK
Sto proficiency: StoTherm Vario, StoCleyer W, StoSilco® K 1.5
Photo: Eye One s.r.o., Bratislava, SVK

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Details
Corner formation

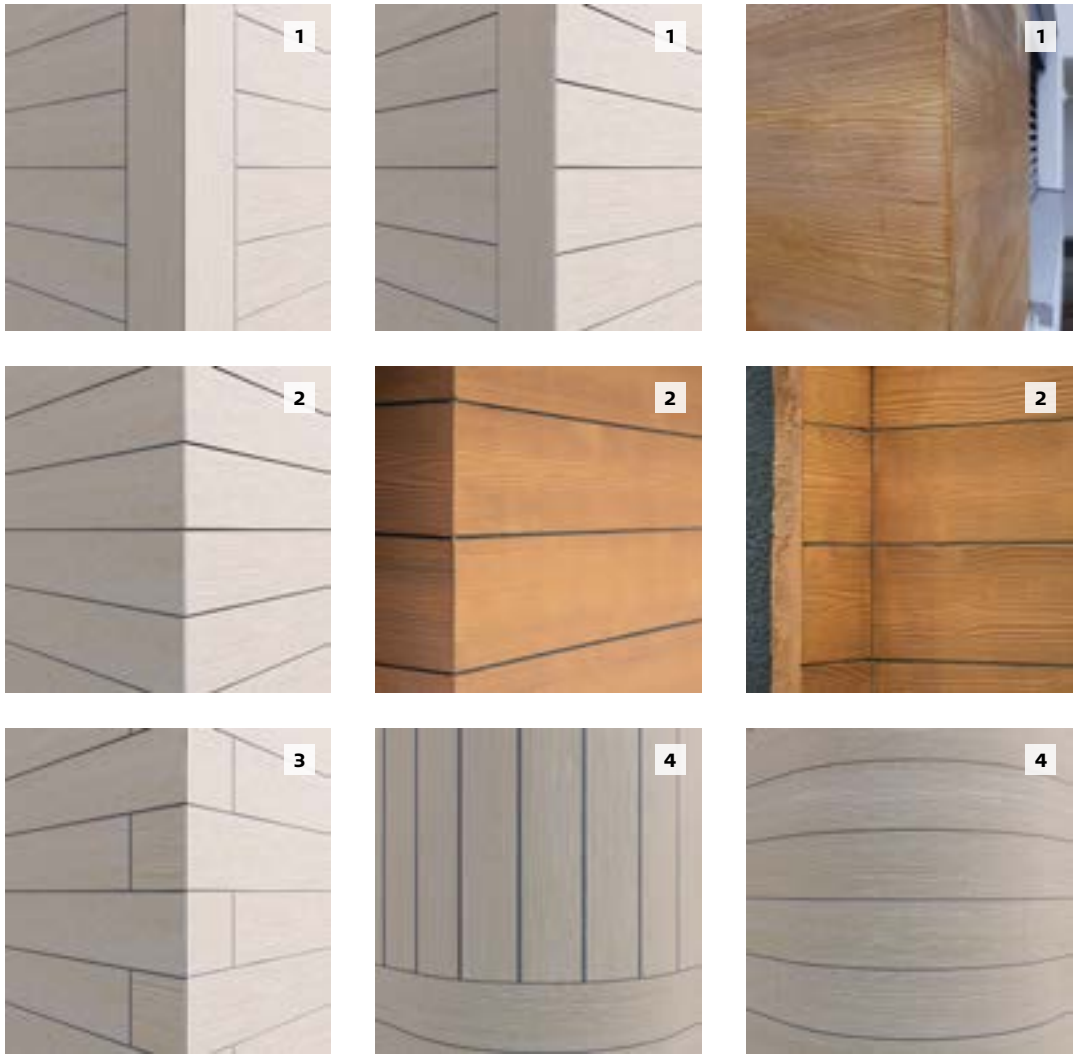
1. Using profiles:
• Corner formation and inclusion of accentuated areas with suitable render profiles or square panels

2. Straight-edged joining:
• Bond the corners and reveals on one side with projection
• Use a paint brush to remove all traces of emerging mortar from the joint; then finish with a sponge
• Cut flush after 24 hours
• Chamfer with abrasive stone made from corundum

3. Impressions of solid timber can be created with modelling or by using leftover pieces.

4. Curves are possible starting from 200 mm.

Note: Create the projection in the reveal if possible.
This makes subsequent cutting easier.
The joint is then not directly visible when looking at the window.



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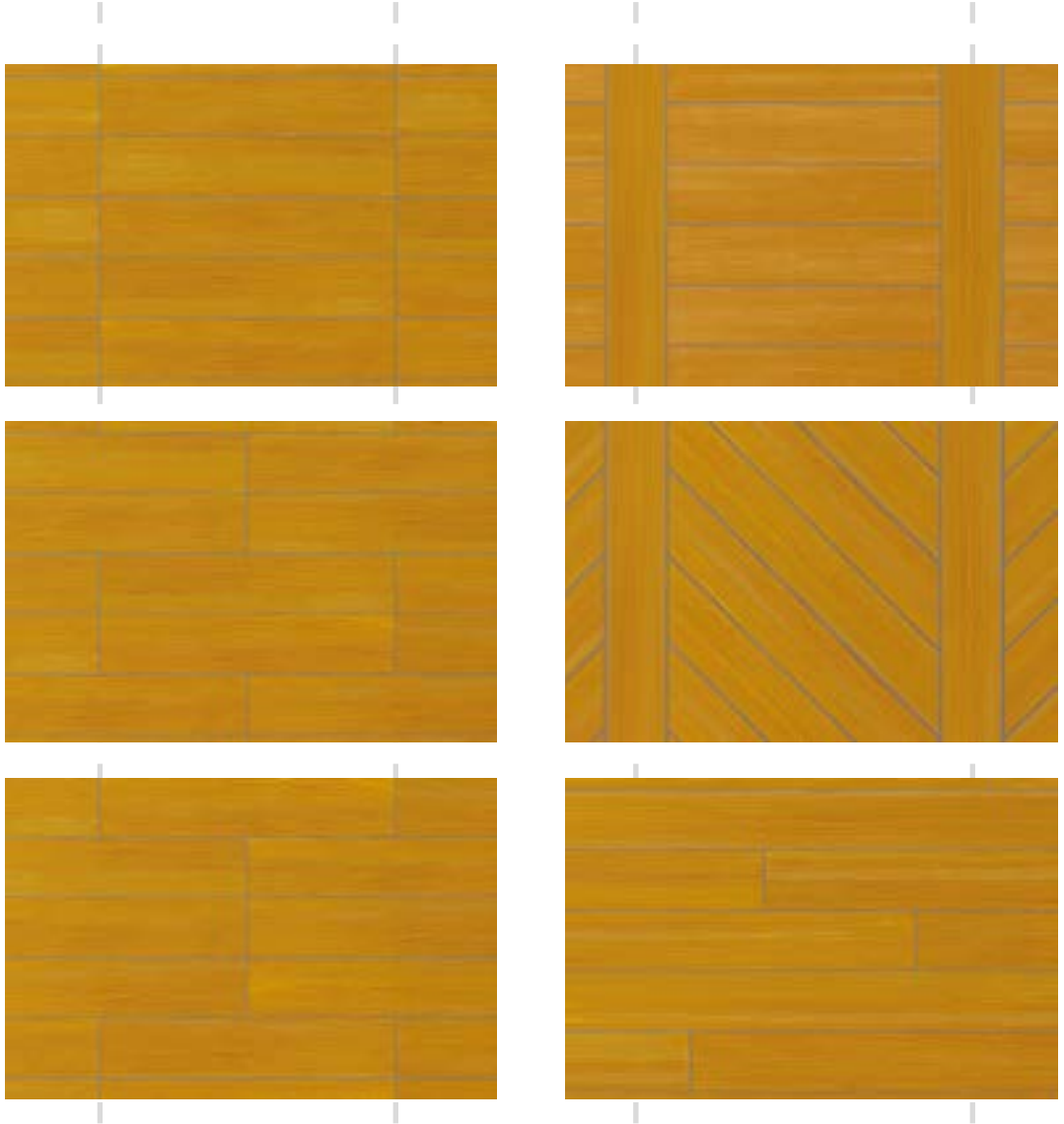
Details
Joint design element

The interplay between the texture of the surface and the arrangement of the elements determine the appearance of a timber facade.

A timber facade is characterised by:
- Visible joints to absorb movements that are typical of the material
- The clear geometry of the elements resembling boards
- The rhythmic legibility of the sub-construction

An application is authentic when these features interpret timber as a material in a plausible way and reproduce its natural look.

StoCleyer W allows planners significant design freedom to accurately reproduce the distinct expression of a timber facade on any substrate and with any system in a way that will stand the test of time, can be adapted, and is architecturally coherent.



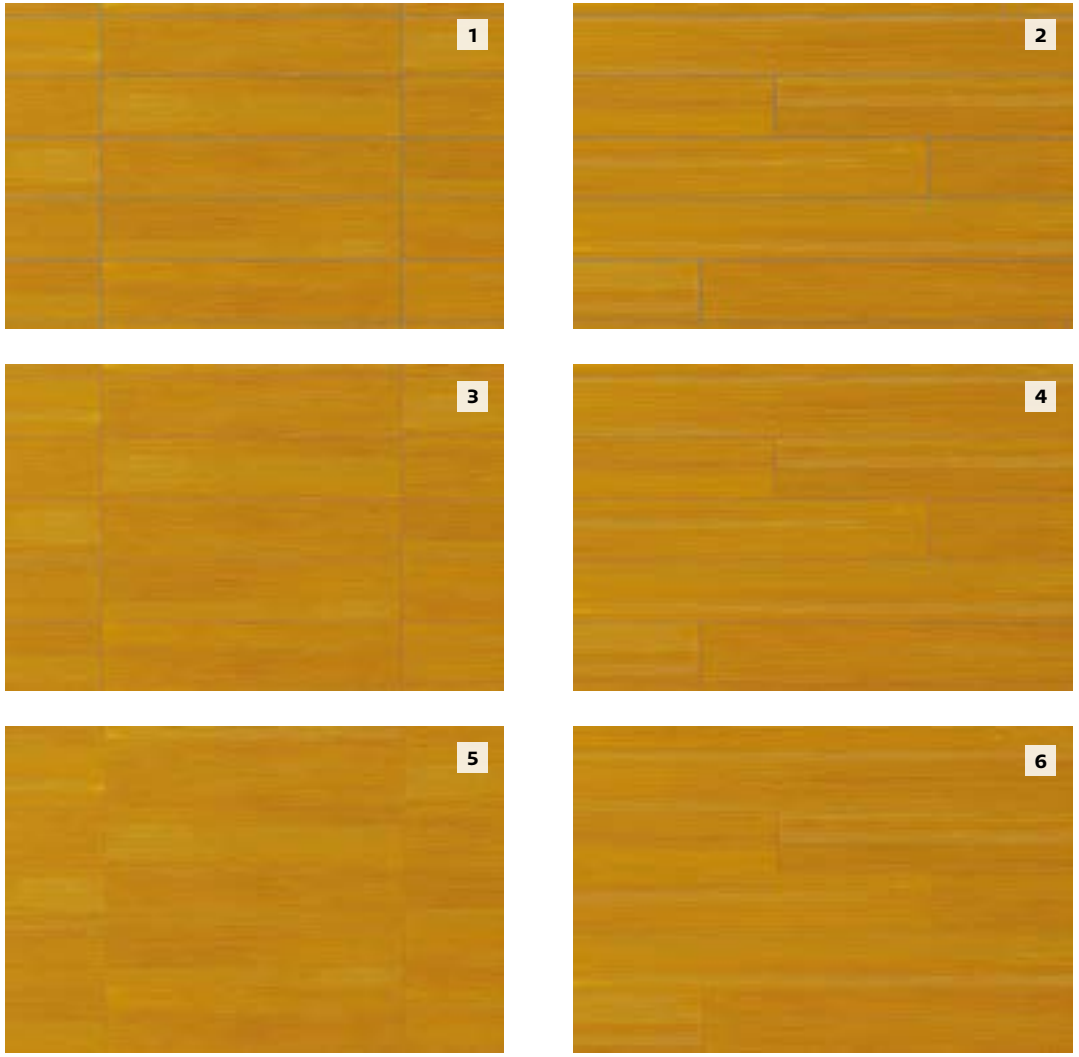
The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

Details

Effect of joint colour shade and joint width

Regular laying
1. Joint width 4 mm, 2 coats of lasure, dark grey translucent
2. Joint width 4 mm, levelling undercoat, 2 coats of lasure
3. Joint width 1 mm, levelling undercoat, 2 coats of lasure, irregular laying
4. Joint width 4 mm, 2 coats of lasure, dark grey translucent
5. Joint width 4 mm, levelling undercoat, 2 coats of lasure
6. Joint width 1 mm, levelling undercoat, 2 coats of lasure

Note:
- Levelling coat with StoColor Jumbosil, colour shade Y10 90 18
- With regular laying, the pattern will remain visible even if the joints are overcoated.



Effect of joint and laying in genuine projects:

References

The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.

References




Byty Šibeník, Olomouc, CZ




Barantal, Lužianky pri Nitre, SVK




Patera, Hrob, CZ




Pod Lesom, Vysoké Tatry, SVK




Waco Family Medicine, Waco, USA




Hotel Prometheus, Dolní Morava, CZ




West Commons Lake Retail, Martinez, USA




Pod Babou, Kuřim, CZ




Residential building, Dieldorf, CH

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Byty Šibeník, Olomouc, CZ
Building owner: JTH Group a.s., Teplice, CZ
Architecture: Alfaprojekt Olomouc, Olomouc, CZ
Specialised trade: Fortex stavby s.r.o., Jílová, CZ
Sto proficiency: StoTherm Vario, StoCleyer W, StoSilco®
Photo: Tomáš Malý, Prague, CZ

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Barantal, Lužianky pri Nitre, SVK
Sto proficiency: StoTherm Vario, StoCleyer W, StoSilco® K 1.5
Photo: Eye One s.r.o., Bratislava, SVK

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No claims regarding such deviations as a result of the above causes will be accepted.





Patera, Hrob, CZ
Sto proficiency: StoSilco® K 1.5, StoCleyer W
Photo: Tomáš Malý, Prague, CZ

The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded.
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Pod Lesom, Vysoké Tatry, SVK
Building owner: Archstudio Development, Vysoké Tatry, SVK
Architecture: Archstudio s.r.o., Poprad, SVK
Specialised trade: Metrostav Slovakia a.s., Bratislava, SVK / STAV-ING Poprad, s.r.o., Poprad, SVK
Sto proficiency: StoTherm Vario, StoCleyer W, StoSignature Impression: Concrete 30
Photo: EYE ONE s.r.o., Bratislava, SVK

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Waco Family Medicine, Waco, USA
Building owner: Beck Group, Dallas, USA
Architecture: HKS Architects Inc, Dallas, USA
Specialised trade: Baker Triangle, Mesquite, USA
Sto proficiency: StoTherm facade insulation, StoCleyer W
Photo: Ryan Price Studio, Texas, USA

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Hotel Prometheus, Dolní Morava, CZ
Building owner: Sněžník a.s., Dolní Morava, CZ
Architecture: AAA STUDIO, s.r.o., Brno, CZ
Specialised trade: REPAVIA STAV s.r.o., Vsetín, CZ
Sto proficiency: StoTherm Mineral, Stolit® K 2.0 white, StoColor X-black, StoCleyer W, StoCryl V 400, StoArmat Classic plus F
Photo: Tomáš Slavík, Praha, CZ

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West Commons Lake Retail, Martinez, USA
Building owner: Duckworth Development, Martinez, USA
Architecture: Virgo Gambill Architects, Augusta, USA
Specialised trade: Georgia-Carolina Stucco, Augusta, USA
Sto proficiency: StoTherm facade insulation, StoCleyer W
Photo: Desmond Jones, Cartersville, USA

The figures are not binding with regard to their colour shades and patterns. Due to varying production methods and product types, differences from the respective original products are possible and cannot be excluded. No claims regarding such deviations as a result of the above causes will be accepted.





Pod Babou, Kuřim, CZ
Building owner: UP constructions s.r.o., Brno-Židenice, CZ
Architecture: UP constructions s.r.o., Brno-Židenice, CZ Application: UP constructions s.r.o., Brno-Židenice, CZ
Sto proficiency: StoTherm Vario, StoCleyer W, Sto-Silkolit K 1.5
Photo: Tomáš Slavík, Prague, CZ

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Residential building, Dieldorf, CH
Specialised trade: kbmaler GmbH, Koblenz, CH
Sto proficiency: StoElasto, StoCleyer W, StoColor Dryonic® G, Stolit® K/R/MP, StoColor Fungasil
Photo: Fotowerder GmbH, Untersiggenthal, CH

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Sample box

13122-225 StoCleyer W – Impressions

Impressions of timber types
With StoAqua Top Satin

- Silver fir (39300L)
- Ash (39301L)
- Oak (39302L)
- Pine (39303L)
- Cherry (39304L)
- Teak (39305L)
- Mahogany (39306L)
- Walnut (39307L)
- Rosewood (39308L)
- Ebony (39309L)

The impressions of ebony and pine are also included as samples in combination with StoSignature Texture: Rough 1 with Stolit® K 2.0 white.

Covering coatings
With StoColor Dryonic®

- Russian Green (B68 40 10)
- Falun Red (R19 37 27)

The content can also be ordered as individual samples.



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Building with conscience.

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