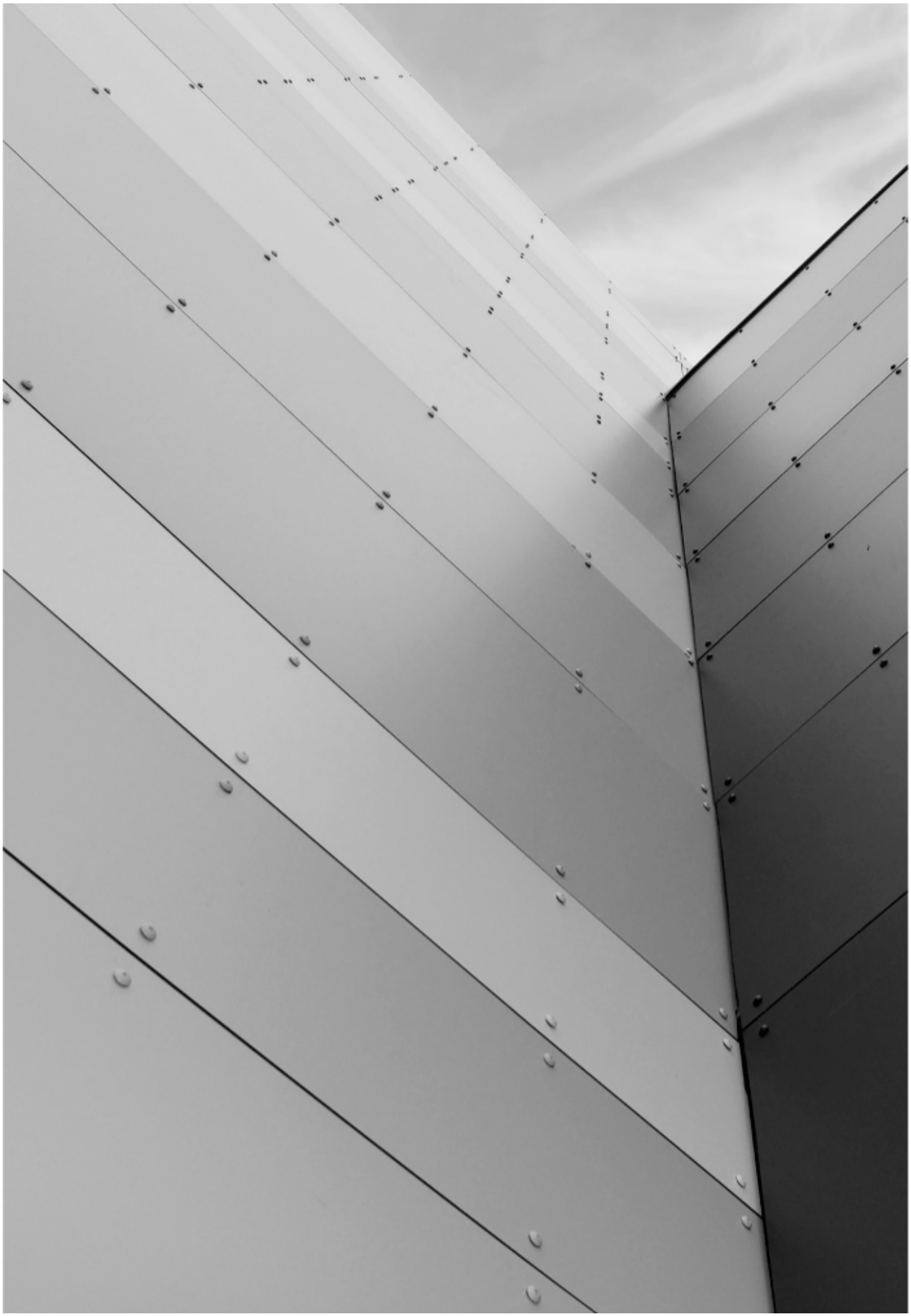
INSTALLATION INSTRUCTIONS

Facade panels 2024

Modern facades
designed for Scandinavian
weather and construction



CONTENT

1. PRODUCTS

2 Frontline Light
3 Frontline Duo
3 Frontline Color

2. WARRANTY

3. HANDLING, TRANSPORT, AND STORAGE

4. STRUCTURES

5 Wood
5 Steel
5 General
5 Hole and screw guide

5. INSTALLATION

6 Protective film
6 Cutting
6 Drilling
6 Screwing
6 Drilling & mounting

6. ACCESSORIES

7 Facade screws and accessories
7 Aluminum coverings

7. WORK SAFELY WITH COMPACT LAMINATE

1. PRODUCTS

Attractive appearance and a solid core. That describes our Frontline facade panels. Both factors are important, especially for outdoor use as climate shielding. Frontline meets high-quality standards, as it is ultimately about protecting buildings.

The visual impression of a building is also very important. Therefore, design quality is just as crucial as product quality. Our Frontline compact laminate panels are developed to meet both needs, offering uncompromising durability and consistent protection.

Walltec's Frontline compact laminate facade cladding offers endless possibilities for attractive and durable facades.

Frontline compact laminate is highly suitable as a primary weather shield in ventilated facade constructions, usable at all heights, and as a decorative exterior panel where high standards for stability and moisture resistance are required.

Walltec facade panels can be used for, among other things:

- Exterior walls and weather protection
- Balconies and balconies
- Gables and dormers
- Overhangs
- Windows and window sills
- Fascia and parapets

There are currently three different variants of our Frontline facade panel:

- Frontline Light
- Frontline Duo
- Frontline Color

FRONTLINE LIGHT

Walltec Frontline Light is a solid-colored compact laminate panel, available in light colors. A 10-year colorfastness warranty is provided in accordance with DS/EN 20105-A02:1994. Find the warranty certificate and terms on our website walltec.co.

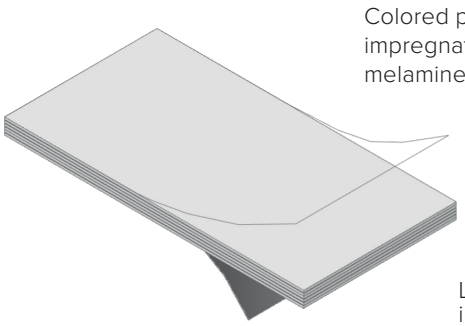
Material

Walltec Frontline Light is a panel made of densely pressed kraft paper, bonded with phenolic resin, with decorative paper and lamination applied to the outer surfaces.

Due to this construction, the Walltec Frontline panel is sealed in both the core and the surface.

This prevents moisture and micro-organisms from penetrating the panel.

Construction



1430 psi at 150 degrees.

Application

Primary weather shield in ventilated facade constructions. Suitable at all heights and as a decorative interior panel where high standards for moisture resistance are required.

- Exterior walls - facade panels
- Interior spaces and partitions
- Balconies
- Gables and dormers
- All types of panels
- Overhangs
- Windows and sills
- Fascia and parapets

Environment

In our production, all necessary procedures are used to ensure the best environmental performance and sustainability. For example, a minimum of 20% recycled paper is used in the production of laminate, and all other materials are purchased only from FSC-approved suppliers.

Form

Frontline is supplied standard in 6 mm thickness and in the format 1300 x 3050 mm.

For other panel thicknesses or dimensions, you can use a Frontline Color.

Walltec Frontline Light is supplied with a dark brown core.

Color

Standard colors:

- White RAL 9010
- Light gray RAL 7035

FRONTLINE DUO UV+

Walltec Frontline Duo UV+ is a two-colored compact laminate panel. The panel is supplied with a UV film, providing a 10-year warranty on colorfastness in accordance with DS/EN 20105-A02:1994. Find the warranty certificate and terms on our website walltec.co.

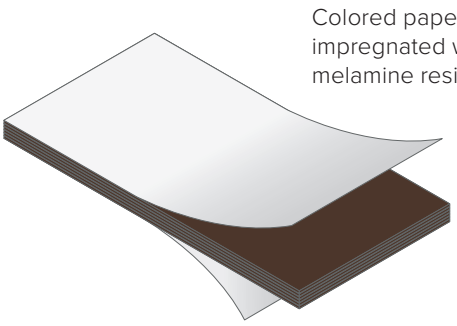
Material

Walltec Frontline Duo UV+ is a panel made of densely pressed kraft paper, bonded with phenolic resin, with decorative paper and lamination applied to the outer surfaces.

Due to this construction, the Walltec Frontline panel is sealed in both the core and the surface.

This prevents moisture and microorganisms from penetrating the panel.

Opbygning



1430 psi at 150 degrees.

Application

Primary weather shield in ventilated facade constructions. Suitable at all heights and as a decorative interior panel where high standards for moisture resistance are required.

- **Exterior walls - facade panels**
- **Interior spaces and partitions**
- **Balconies**
- **Gables and dormers**
- **All types of panels**
- **Overhangs**
- **Windows and sills**
- **Fascia and parapets**

Environment

In our production, all necessary procedures are implemented to ensure optimal environmental performance and sustainability. For example, a minimum of 20% recycled paper is used in the production of laminate, and all other materials are sourced exclusively from FSC-approved suppliers.

Form

Frontline is supplied as standard in 6 mm thickness and in the format 1300 x 3050 mm.

In addition to our standard range, other panel thicknesses or dimensions can be supplied (1-30 mm).

Walltec Frontline Duo UV+ is supplied with a dark brown core.

Colors

Standard colors:

- **Black RAL 9005 and light gray RAL 7035**
- **Anthracite RAL 7016 and white RAL 9010**

FRONTLINE COLOR UV+

Walltec Frontline COLOR UV+ is a solid-colored compact laminate panel. The panel is supplied with a UV film, providing a 10-year warranty on colorfastness in accordance with DS/EN 20105-A02:1994. Find the warranty certificate and terms on our website walltec.co.

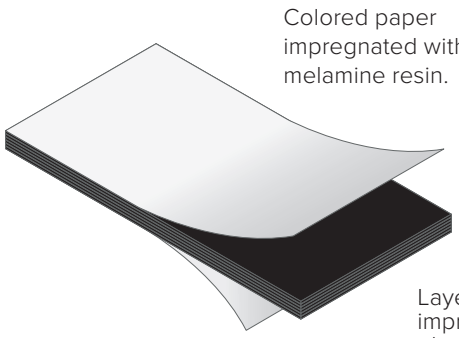
Material

Walltec Frontline Color UV+ is a panel made of densely pressed kraft paper, bonded with phenolic resin, with decorative paper and lamination applied to the outer surfaces.

Due to this construction, the Walltec Frontline panel is sealed in both the core and the surface.

This prevents moisture and microorganisms from penetrating the panel.

Opbygning



1430 psi at 150 degrees.

Application

Primary weather shield in ventilated facade constructions. Suitable at all heights and as a decorative interior panel where high standards for moisture resistance are required.

- **Exterior walls - facade panels**
- **Interior spaces and partitions**
- **Balconies**
- **Gables and dormers**
- **All types of panels**
- **Overhangs**
- **Windows and sills**
- **Fascia and parapets**

Environment

In our production, all necessary procedures are implemented to ensure optimal environmental performance and sustainability. For example, a minimum of 20% recycled paper is used in the production of laminate, and all other materials are sourced exclusively from FSC-approved suppliers.

Form

Frontline is supplied as standard in 6 mm thickness and in dimensions of 1300 x 3050 mm.

In addition to our standard selection, other thicknesses or dimensions can be provided (1-30 mm).

Walltec Frontline Color UV+ is supplied with a black core.

Colors

Standard colors:

- **Black RAL 9005**
- **Anthracite RAL 7016**
- **Concrete grey RAL 7016**

Frontline Color is available in 400 colors matching the closest RAL colors.

2. WARRANTY

Walltec Frontline facade panels come with a product warranty period of 10 years, provided they are installed correctly according to the supplier's instructions. For the same panels with UV+ film, a 10-year color warranty is also provided in accordance with DS/EN 20105 (grey scale).

See the warranty certificate at walltec.co. Please also refer to Walltec's terms and conditions of sale and delivery, installation guidelines, data sheets, and more on our website walltec.co.

3. HANDLING, TRANSPORT, AND STORAGE

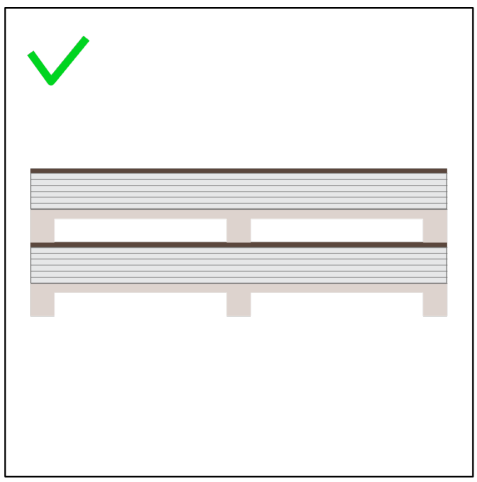
To avoid damaging the surfaces and edges, panels must be handled carefully. Despite the excellent surface hardness, the panels' own weight/stacking weight may cause damage.

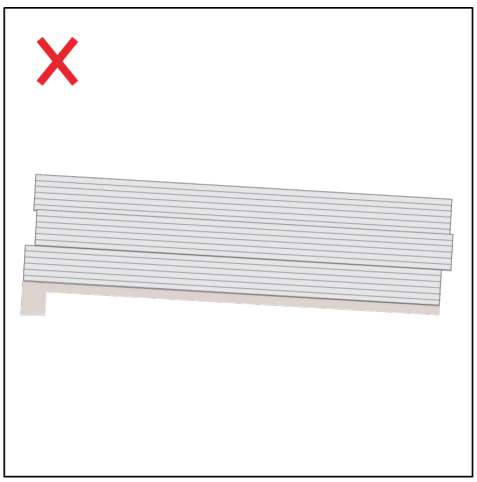
Therefore, all types of impurities between the panels must be avoided.

Walltec facade panels must always be transported with care to prevent the panels from sliding, and they should be secured during transport. During installation, the panels should always be lifted by two people and should not be dragged or pushed over the edge.

Storage and Handling

- Remove transport packaging from panels and pallet.
- Store in a dry place, under cover, not exposed to frost, rain, or sunlight, including on the construction site.
- Store horizontally and symmetrically stacked.
- Lift panels off the stack; do not drag or push them.
- Transport panels on a transport pallet in their original dimensions.
- If stacking multiple pallets, only do so with a cover panel in between.
- Always ensure good ventilation around the panels.
- Do not lean panels against other building parts, as they may deform or bend.





Store horizontally and symmetrically stacked. Panels should be transported on a transport pallet in their original dimensions. If stacking multiple pallets, only do so with a cover panel between the pallets.

4. CONSTRUCTIONS

Wood:

- Maximum spacing between horizontal battens is 400-550 mm – see screw guide.
- Always use pressure-treated and planed battens if a wooden substrate is used.
- A minimum of 22 mm ventilated construction is required. Always ensure free access for ventilation at ground level, under sills, roof, etc.
- Always use EPDM tape between the panel and the batten.
- A minimum of 8 mm is required for both horizontal and vertical panel joints.

Steel:

- Maximum spacing between horizontal steel profiles is 400-550 mm – see screw guide.
- A minimum of 22 mm ventilated construction is required. Always ensure free access for ventilation at ground level, under sills, roof, etc.
- Always use EPDM tape between the panel and the steel profile.
- A minimum of 8 mm is required for both horizontal and vertical panel joints.

General:

- Always ensure sufficient ventilation behind the Walltec panels
  - use a 100 mm substrate in the joints.
- Always use EPDM tape between the battens and the panels. Recommended 90/100 mm in panel joints.
- Minimum distance to the ground is 100 mm.
- It is important to note that our facade panels are not designed to function as roofing.

Hole and Screw Guide:

Always ensure an appropriate screw torque when mounting Walltec facade panels. When mounting with Walltec facade screws, pre-drill with a 7 mm drill bit. Screw distance from the edge should be a minimum of 20 mm.

General screw distances:

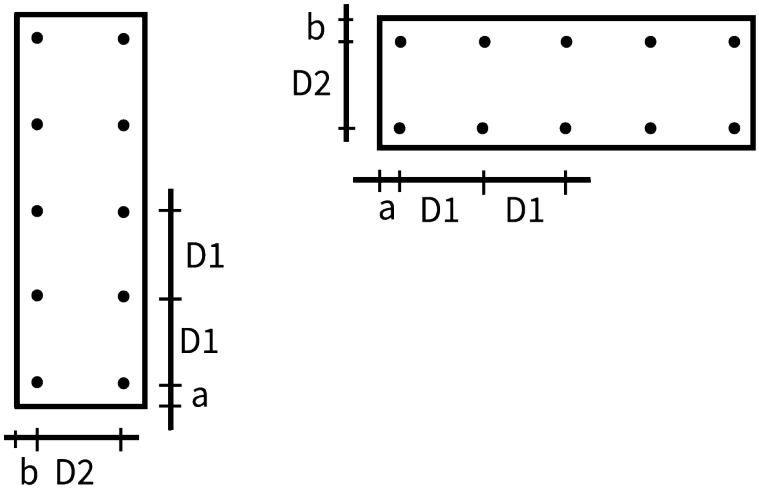
Example 1:
Vertical measurements: Max. 400 mm (with 2 rows of screws) D1.
Horizontal measurements: Max. 400 mm (with 2 rows of screws) D2.

Example 2:
Vertical measurements: Max. 400 mm (with 3 rows of screws) D2.
Horizontal measurements: Max. 550 mm (with 3 rows of screws) D1.

Remember to check the screw guide.
If you have any doubts about the screw guide,
you are always welcome to contact us.

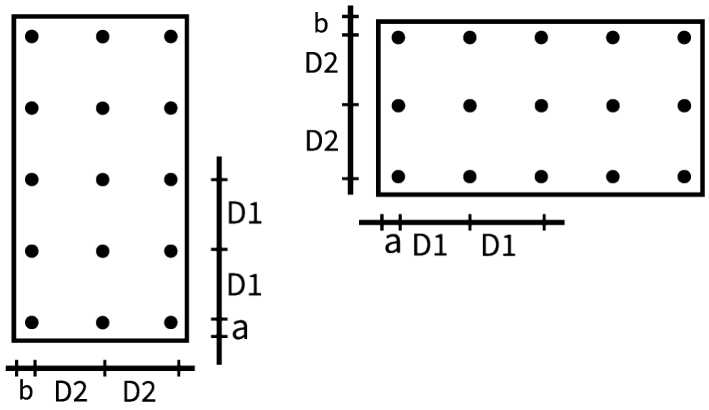
Hole and screw distance:

Example 1:



Thickness	Max D1	Max D2	A (mm)	B (mm)
6	400	400	20 ÷ 40	20
8	550	500	20 ÷ 40	20

Example 2:



Thickness	Max D1	Max D2	A (mm)	B (mm)
6	550	400	20 ÷ 60	20 ÷ 50
8	700	500	20 ÷ 80	20 ÷ 60

All panels are supplied in production format and should ideally be trimmed, as we cannot guarantee that the panels are square-edged. The panels are manufactured and delivered according to EN 438-2. In the production format, rough-cut edges may occur, and the panels cannot be assumed to be square according to EN 438-2. Walltec offers cutting to fixed dimensions and pre-drilling of holes at an additional charge.
Examples 1 & 2, shown above, apply ONLY to vertical installation.
For horizontal installation of the panels, it is recommended that the maximum center-to-center distance (width & length) is 420 mm.

5. INSTALLATION

Protective film

- Walltec facade panels are supplied with protective film on one or both sides of the panel. In cases of overnight frost and damp conditions, or if moisture gets between the panels, there is a risk of adhesive residue remaining on the panel. Therefore, we recommend removing the protective film as late in the workday as possible.
- Any adhesive residue on the panel can be removed according to the Walltec maintenance instructions.
- The protective film must be removed from both sides of the panel, and it is recommended to remove the protective film just before installing the cut and pre-drilled panel.

Cutting

- Walltec facade panels are supplied in production format and should generally be cut on all four sides. They are manufactured and delivered according to EN 438-2. In the production format, rough-cut edges may occur, and the panels cannot be assumed to be square.
- Use the Walltec blade 160 × 2.0 / 1.2 × 20 / 40t for the plunge saw. If another saw or blade is used, we recommend a fine-toothed carbide blade.
- The saw settings should be adjusted for fine cuts.
- The cut edges do not need to be sealed or treated before installation, but can be deburred with a file or sandpaper.

Drilling

- Pre-drill screw holes with a minimum diameter of 7 mm using the Walltec screw in size 4.8 × 29 mm. For other screw dimensions, the hole diameter should be the screw thickness × 1.5 (e.g., 4.8 mm × 1.5 = minimum 7.2 mm hole)..
- Always use a multi-bit.
- Always ensure full support when drilling into the panel.

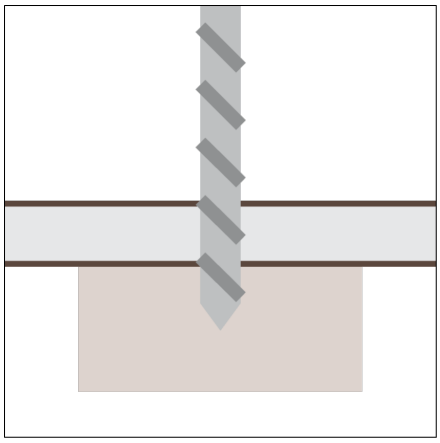
Screw

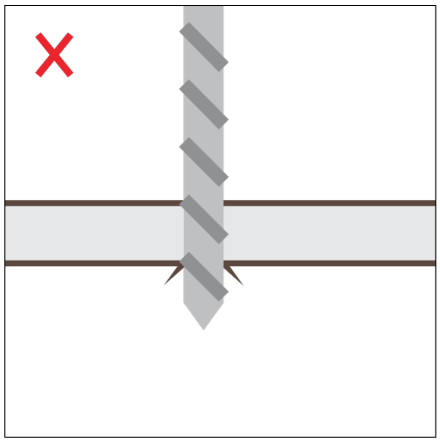
- Place the screw in the center of the hole and ensure that the fastening head is flush with the surface of the panel. The screw should be centered in the oversized holes to allow for panel movement.
- Optionally, use self-centering drill bits in the oversized holes.
- DO NOT tighten the screws too much.

Processing - Drilling

Pre-drill screw holes with a minimum diameter of 7 mm using the Walltec screw in size 4.8 × 29 mm. For other screw dimensions, the hole diameter should be the screw thickness × 1.5 (e.g., 4.8 mm × 1.5 = minimum 7.2 mm hole). Always use carbide drill bits.

ⓘ ALWAYS ENSURE FULL SUPPORT WHEN DRILLING INTO THE PANEL.



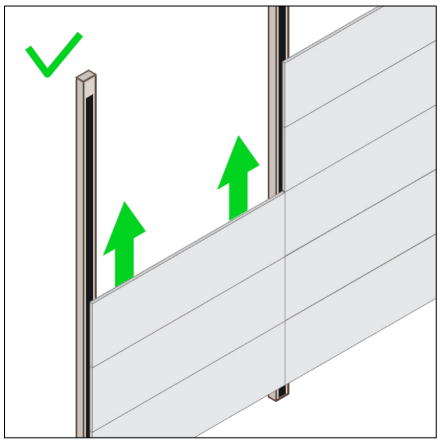


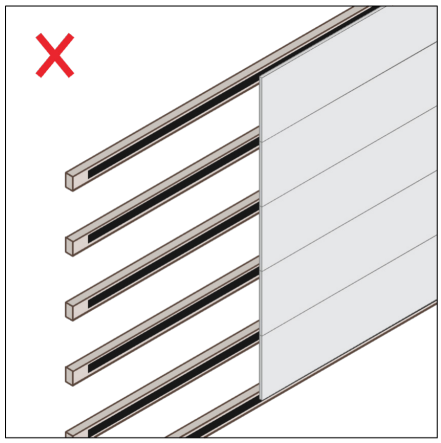
Installation

Always ensure sufficient ventilation behind the Walltec panels.
This is best achieved by using planed battens with a minimum thickness of 22 mm.

- Always use EPDM tape under the panels.
- The minimum distance to the ground is 100 mm.

ⓘ THERE MUST ALWAYS BE GOOD VENTILATION AND VERTICAL BATTENS.

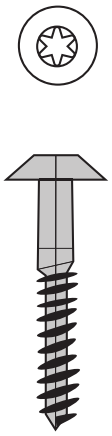




6. ACCESSORIES

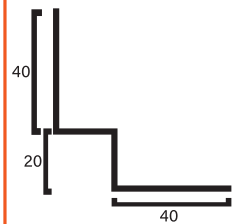
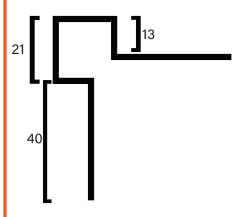
Facade screws and accessories

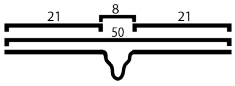
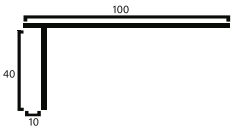
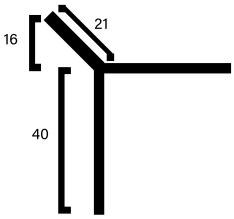
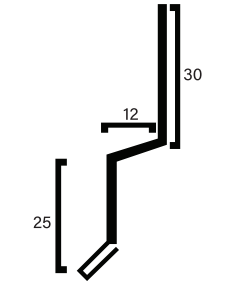
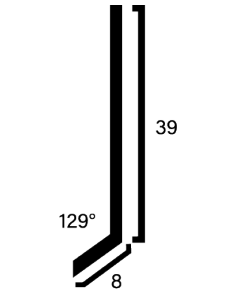
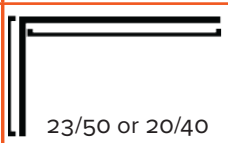
Walltec offers colored facade screws that match the panels. The following standard screws are available in stock:

Facade screws	Item number	Color	Closest RAL	Screw data	DB number
	910142	Black	9005	4,8 x 29mm, A2, A4	1951470
	910538	Light grey	7035	4,8 x 29mm, A2, A4	1951472
	911020	White	9010	4,8 x 29mm, A2, A4	1951469
	903190	Anthracite	7016	4,8 x 29mm, A2, A4	1951468

When ordering custom colors, screws in the same color can be supplied.
Walltec also stocks EPDM tape in 90 mm and 30 mm widths, as well as a saw blade 160 mm / 48t, max 10,000 rpm.

Aluminum flashings:

Edge and corner profiles	Illustration	Length (m)	Thickness (mm)	Color	Item number	DB number
Internal corner		0,3	0,80	Black, ral 9005	801013	1851563
		0,3	0,80	Anthracite, ral 7016	801012	1851564
		0,3	0,80	White ral 9010	801011	1899784
		0,3	0,80	Light grey, ral 7035	801014	1899782
External corner		0,3	0,80	Black, ral 9005	802013	1851567
		0,3	0,80	Anthracite, ral 7016	802012	1851568
		0,3	0,80	White ral 9010	802011	1899730
		0,3	0,80	Light grey, ral 7035	802014	1899732

Facade screws	Item number	Color	Closest RAL	Screw data	DB number	DB nr.
Vertical joint profile		0,3	0,80	Black, ral 9005	803013	1899797
		0,3	0,80	Anthracite, ral 7016	803012	1899796
		0,3	0,80	White ral 9010	803011	1899794
		0,3	0,80	Light grey, ral 7035	803014	1899798
Revealing profile (door/window)		0,3	0,80	Black, ral 9005	804013	1851565
		0,3	0,80	Anthracite, ral 7016	804012	1851566
		0,3	0,80	White ral 9010	804011	1899800
		0,3	0,80	Light grey, ral 7035	804014	1899801
External corner tip		0,3	0,80	Black, ral 9005	805013	1899804
		0,3	0,80	Anthracite, ral 7016	805012	1899803
		0,3	0,80	White ral 9010	805011	1899802
		0,3	0,80	Light grey, ral 7035	805014	1899805
Drip edge		0,3	0,80	Black, ral 9005	806013	1851569
		0,3	0,80	Anthracite, ral 7016	806012	1851570
		0,3	0,80	White ral 9010	806011	1899806
		0,3	0,80	Light grey, ral 7035	806014	1899807
Horizontal drip edge		0,3	0,80	Black, ral 9005	809013	1899814
		0,3	0,80	Anthracite, ral 7016	809012	1899813
		0,3	0,80	White ral 9010	809011	1899812
		0,3	0,80	Light grey, ral 7035	809014	1899816
Ventilation profile		0,2	0,80	Polished aluminum	811010	
		0,2	0,80	Polished aluminum	811011	

7. WORK SAFELY WITH COMPACT LAMINATE

When cutting and routing Walltec facade panels, chips are produced that do not harm personal health or the environment. Therefore, this waste can also be disposed of in modern thermal heating systems, which do not produce environmental toxins such as hydrochloric acid, organic chlorine compounds, or dioxins.
When properly incinerated, the panels decompose into carbon dioxide, nitrogen, water, and ash. The resulting energy is typically used for district heating. Additionally, disposal of the panels at organized recycling stations is straightforward.