INSTALLATION GUIDE · EN

Installation Guide for Steps

Bruggan Elegant

Installation card for cladding concrete stairs with Bruggan Elegant treads and risers on concealed clips.

DOCUMENT	SYSTEM	SUBSTRATE	EDITION
Installation guide	Elegant tread and riser	Concrete stairs	EN · 10/2026

BEFORE YOU START

Preparation

Check before starting work

- ☐ The concrete substrate is load-bearing, clean and free of crumbling areas.
- ☐ Stair geometry matches the design: step height and depth, flight width, right angles.
- ☐ Substrate irregularities are corrected before installing joists — fixings are not used for levelling.
- ☐ All system components are dry and free of dust.

Components

Joists	moisture-resistant aluminium or composite, recommended for Bruggan Elegant
Clips	Start/Finish Elegant N9
Screws	TORX20, 4 × 25 × 7
Anchors	Ø 8 mm, length 50 mm
Layout	per installation diagram; template made separately

Control dimensions

Hole in joist	Ø 15 mm for the anchor head
Concrete drilling	Ø 8 mm masonry bit through the joist hole
Hole depth	at least 50 mm
Joist spacing	per the working design and installation diagram
Gaps	per the design and site technical requirements

Tools

Cutting and drilling	mitre saw for joists; drill-driver; Ø 15 mm drill bit; Ø 8 mm masonry bit
Fixing	TORX20 bit; countersink for screw heads; rubber mallet
Measuring	tape measure, spirit level, square, pencil

Installation errors to avoid

- × Tightening the screw fully in the clip's slotted hole — the joint loses its ability to absorb linear movement of the profile.
- × Drilling concrete after the joist has shifted — the holes in the joist and concrete are no longer aligned.
- × Installing a tread on a frame with play or misalignment.
- × Striking the profile or clip directly with a metal hammer.
- × Leaving screw heads above the profile surface.

INSTALLATION SEQUENCE

01 p. 3 — **Frame assembly**

02 p. 4 — **Fixing to concrete**

03 p. 5 — **Riser clips**

04 p. 6 — **Riser**

05 p. 7 — **Tread**

06 p. 8 — **Next steps**

STAGE 01 / 06

Frame assembly

1 Prepare the joists

Cut the joists to the design dimensions of each step. Use only moisture-resistant aluminium or composite joists.

✓ **Check:** lengths match the design

2 Lay out the joists

Position the joists along the step outline in their design position. Check axes, level and symmetry.

✓ **Check:** joists not shifted

3 Drill Ø 15 mm holes

At the fixing points, drill Ø 15 mm holes in the joists for the anchor heads.

✓ **Check:** hole axes aligned

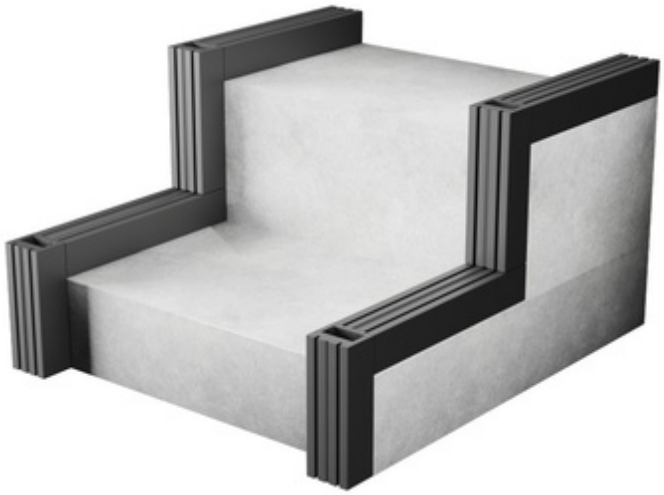

Fig. 1 Joists laid along the step outline

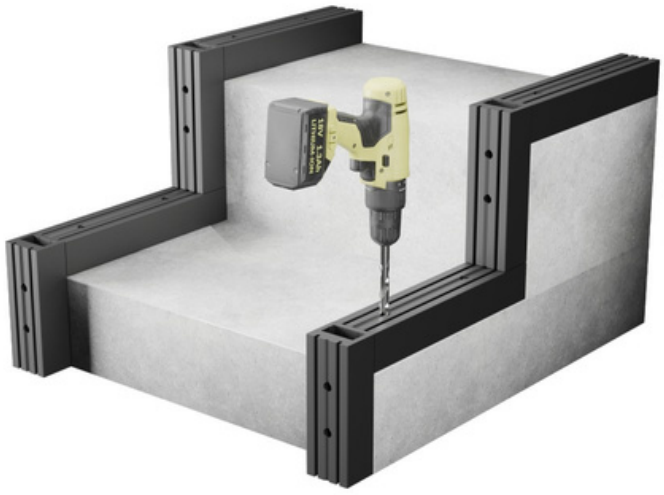

Fig. 2 Drilling holes in the joists

Stage check

- Frame corners are square, both sides are symmetrical, and there is no deviation from the axis.
- Any frame error will carry over to the riser and tread — correct it at this stage.

STAGE 02 / 06

Fixing the frame to concrete

4 Drill the concrete

Through the Ø 15 mm hole in the joist, drill the concrete with a Ø 8 mm masonry bit to a depth of at least 50 mm.

✓ **Check:** joist not displaced

5 Anchor the joists

Fix the joists with Ø 8 mm anchors, 50 mm long. The joist must sit tightly against the substrate.

✓ **Check:** no play or lifting

6 Check the frame

After fixing, check the horizontal and vertical sections and every fixing point.

✓ **Check:** frame is rigid

Important

- Do not level the substrate with fixings: correct irregularities first, then fix the joists.
- Do not proceed to the next stage if any joist moves or has play.

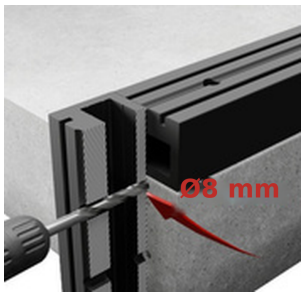

Fig. 1 Masonry bit Ø 8 mm

Fig. 2 Anchor

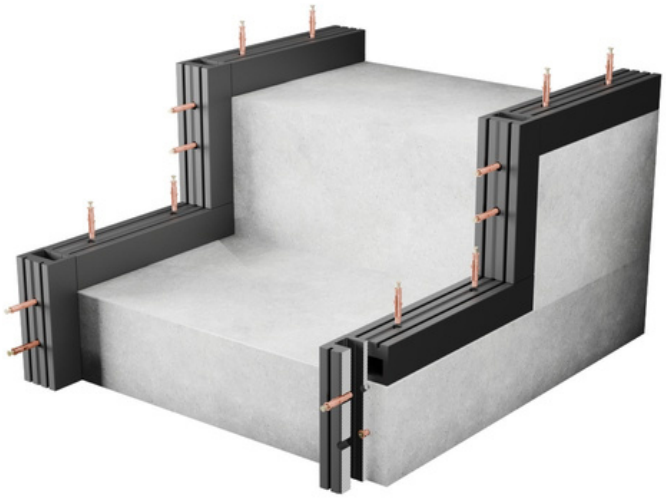

Fig. 3 Fixed frame

STAGE 03 / 06

Installing the riser clips

7 Prepare clips and screws

Use Start/Finish Elegant N9 clips and TORX20, 4 × 25 × 7 screws.

✓ **Check:** components complete

8 Fix the bottom clips

Place the clips at the bottom of the vertical joists and screw them through the round hole until seated tightly.

✓ **Check:** clip is not skewed

9 Fix the top clips

Screw the top clips through the slotted hole without tightening the screws fully.

✓ **Check:** adjustment retained

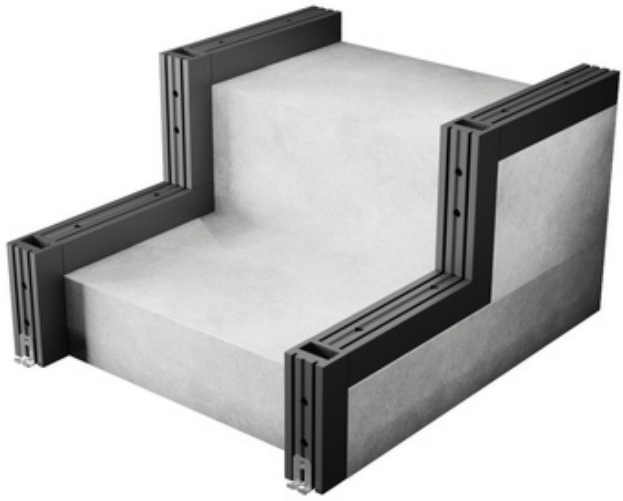

Fig. 1 Frame before clip installation

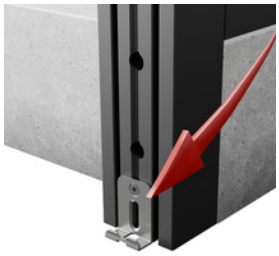

Fig. 2 Bottom clip

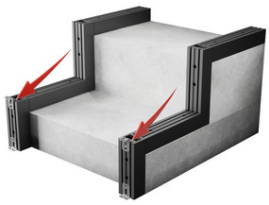

Fig. 3 Top clips

Fig. 4 Fixing through the slotted hole

Stage check

- Bottom clips are pressed tight; top clips retain travel for adjustment.
- Clips on all joists are at the same height.

STAGE 04 / 06

Installing the riser

10 Insert the riser

Fit the riser between the bottom and top clips. The face must be flat along its full length.

✓ **Check:** top edge is level

11 Seat the top clips

Drive the top clips fully home with a rubber mallet. Strike only the clip, never the profile.

✓ **Check:** clips fully seated

12 Check the riser

Once fixed, the riser must show no play, displacement or deviation relative to the frame.

✓ **Check:** ready for the tread

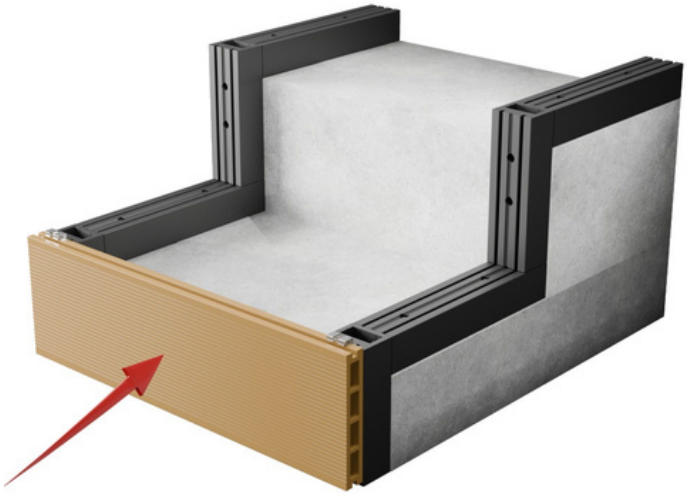

Fig. 1 Riser installation

Fig. 2 Seating the top clip

Installation tip

- Use a rubber mallet or a protective block: striking with a metal tool can damage the clip or the profile.

STAGE 05 / 06

Installing the tread

13 Mark the fixing points

Mark the clip fixing points according to the installation diagram. The template is not included — if needed, make one to the system dimensions.

✓ **Check:** marks match the diagram

Fig. 1 Marking points

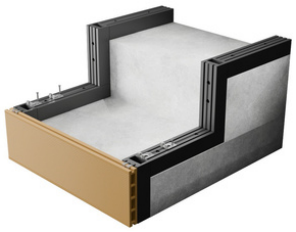

Fig. 2 Fixing clips

14 Fix the clips

Align the round hole of the clip with the mark and fix the clip with a screw.

✓ **Check:** clips in one line

15 Place the tread

Lay the tread on the clips and slide it in the direction of the arrow until fully engaged.

✓ **Check:** tread fully engaged

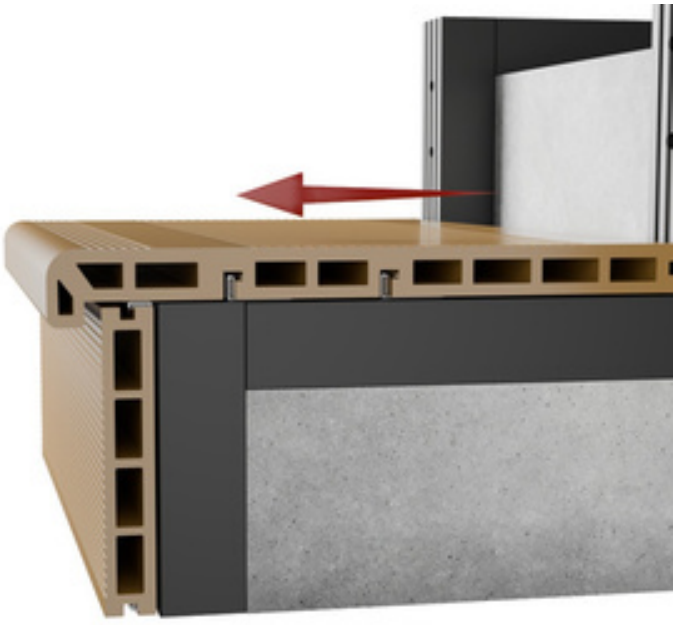

Fig. 3 Sliding the tread into engagement

16 Secure the tread

Additionally fix the tread with a screw in the rear zone of the profile, where the next riser will cover it.

✓ **Check:** screw concealed

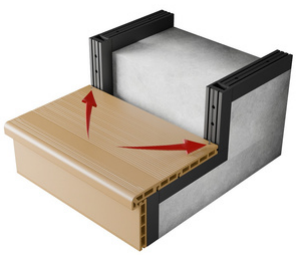

Fig. 4 Fixing zone

Fig. 5 Concealed screw

Screw placement

- Never drive screws in the visible part of the tread.
- Choose the fixing point so that the next riser covers it completely.
- Countersink before driving: the screw head must not protrude above the profile.

STAGE 06 / 06

Installing the next steps

Install each subsequent riser-and-tread pair in the same sequence as the first: stages 03–05.

01 **Clips for the next riser**

02 **Installing the next riser**

03 **Clips for the next tread**

04 **Installing the next tread**

Final quality check

- ☐ Joists are firmly fixed to the concrete substrate, with no play.
- ☐ Risers are installed straight and held by the clips.
- ☐ Treads are fully engaged with the clips.
- ☐ Screw heads are countersunk and do not protrude.
- ☐ Additional fixing screws are concealed under the risers.
- ☐ The line of steps is straight, with no offsets.
- ☐ The surface is cleaned of shavings, dust and installation debris.

Installation complete

Manufacturer: Woodplast Sp. z o.o., Katowice, Poland
The manufacturer reserves the right to make design changes without prior notice.