

Naxan cladding

Building for a better lifestyle

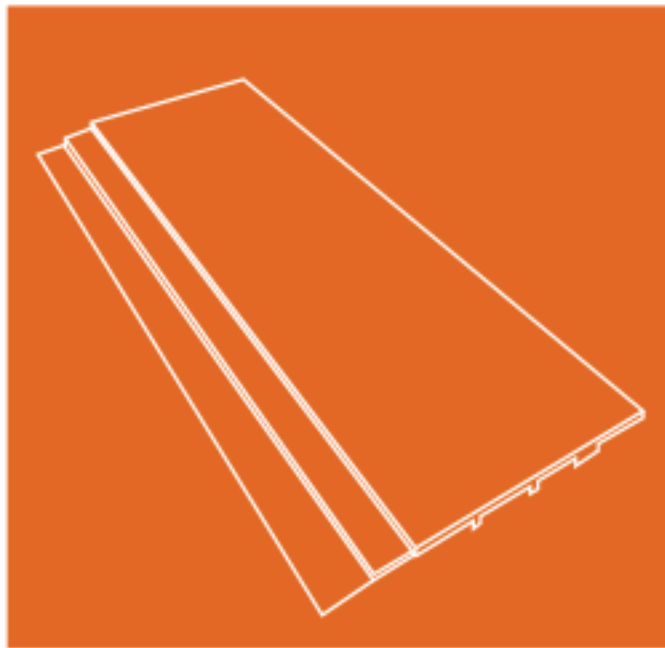


Installation Guide

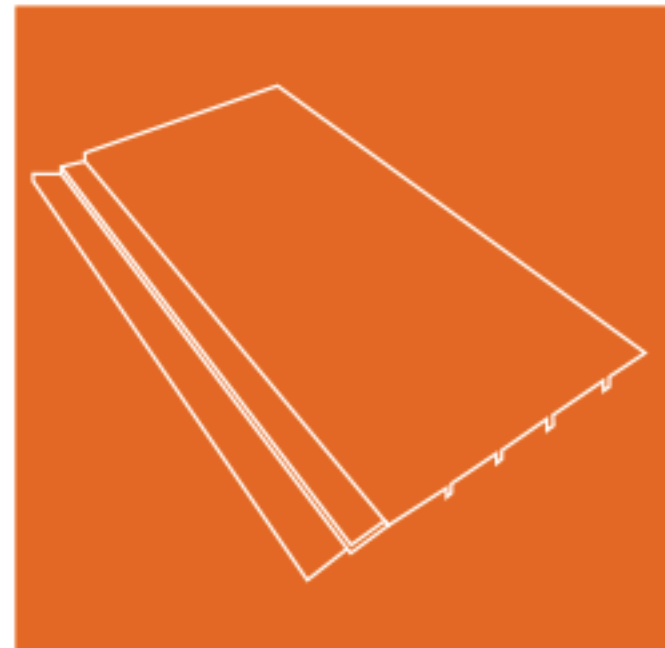


System components*

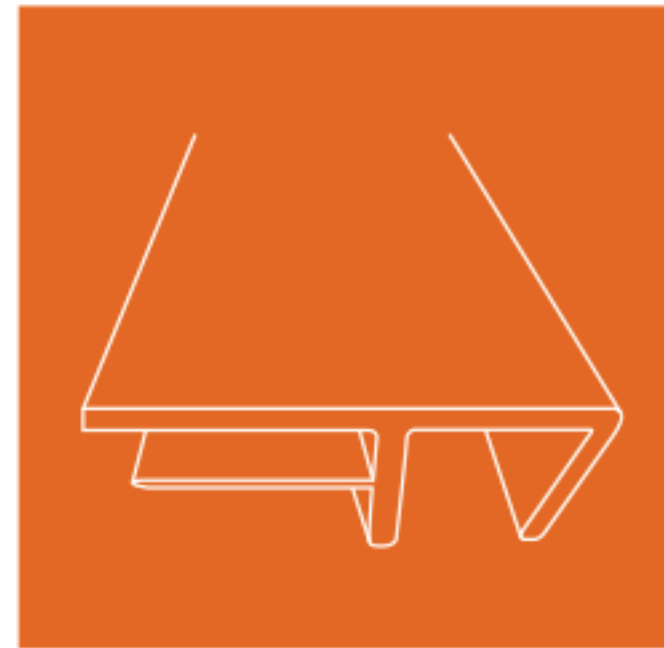
***Must be procured from approved supply partners.**



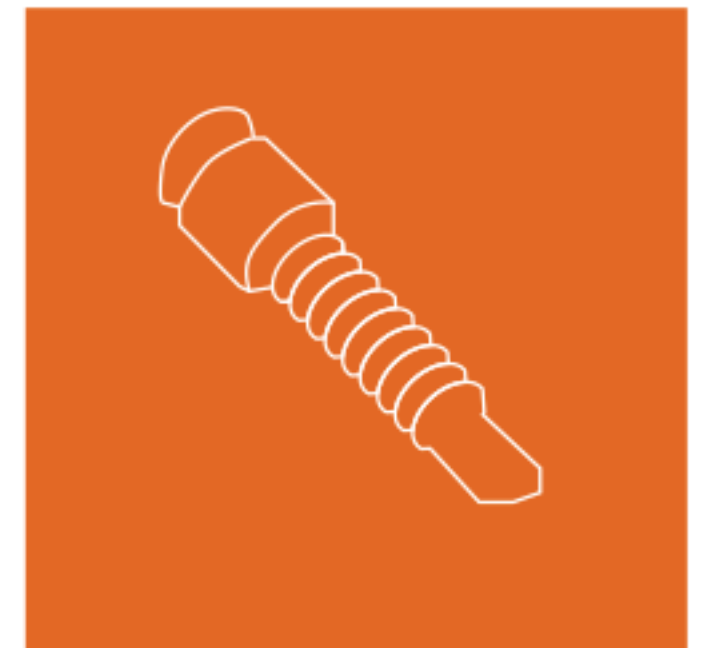
Plank 128 x 13 x 3600mm
Coverage: 105mm
CP95



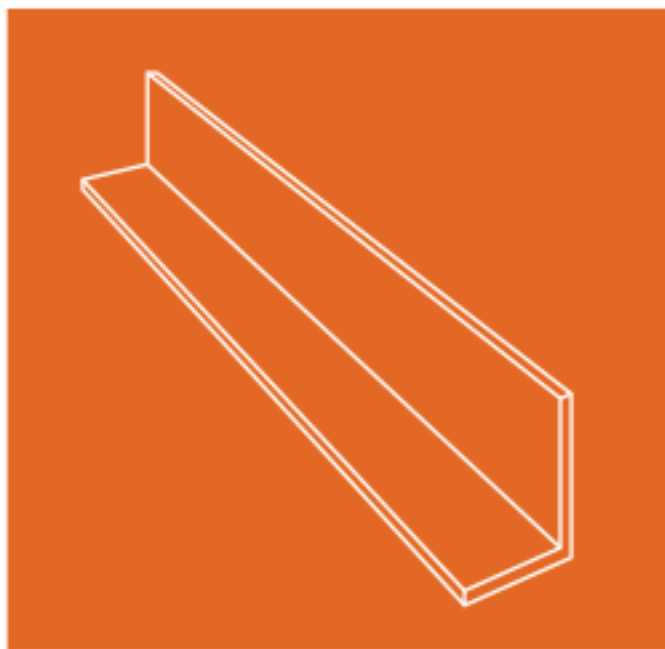
Plank 173 x 13 x 3600mm
Coverage: 150mm
CP140



Corner angle
40 x 40 x 3000mm
CPCR40



Stainless steel
shoulder screw
CPSS25



Corner angle
60 x 60 x 3000mm
ANP6060



Stainless steel
self-tapping screw
10ga x 50mm



Approved Stain/Sealer

Design considerations

The following guidelines are for boards installed and fastened on steel top hats or timber battens. The design and construction of the specific application must comply with the National Construction Code and any applicable regulations and standards. A licensed builder, architect or engineer must be consulted to ensure the details in this guide is appropriate for the intended application.

The colour of Naxan Cladding is subject to natural variation due to the manufacturing process and raw material used in its manufacture. Before installation, the builder and/or installer must inspect and ensure that the planks meet with the finish/aesthetic requirements and quality specifications.

Design considerations

To capitalise on the benefits of Naxan Cladding and its architectural features for external cladding systems, the following considerations are important:

1. Framing

Naxan Cladding must not be used for any structural purpose. All structural framing must comply with the requirements of NASH standards for residential and low-rise steel framing and AS1684 for timber frames. Naxan Cladding must not be fixed directly to frames.

2. Cavity

A minimum of 24mm cavity for wall and 15mm for soffit to provide ventilation behind the cladding is required. For vertical installation a minimum of 10mm packing behind top hats/battens is required.

3. Sarking

Sarking or building wrap should be used behind Naxan Cladding for external cladding to help against external heat and weather penetration and build-up of internal condensation. Must comply with AS/NZ 4200 Part 1 – Materials and Part 2 – Installation.

4. Steel top hats

Must not be less than 24mm x 50mm x 1.15mm thick fixed on top of the frames at maximum 450mm centres for external and 600mm for internal cladding. Must be flat and leveled across the surface. Use appropriate packers where necessary.

5. Timber batten

Must be adequately seasoned and not less than 35mm x 70mm at a maximum 450mm centres for external and 600mm for internal cladding.

6. Spacing

Naxan Cladding has predrilled slots for quick installation. Batten should be spaced to use the hole centres. If hole centres miss the battens appropriate holes must be drilled to permit expansion and contraction. Proper battening for all trims around windows and doors is essential. Position at the start and finish of each plank run to ensure the first and last screws in each plank are located 15-25mm from end of the plank.

7. Thermal break

When fixing steel top hat over building wrap installed to steel framing, use non-compressible hard plastic packers of minimum 10mm thick between building wrap and top hat to provide thermal break for heat transfer.

8. Expansion joints

Do not span Naxan Cladding across expansion joints in the structure. If required finish the plank on either side of any expansion joint to prevent damage to the plank and/or structure.

9. Framing hardware

All framing bolts, screws, nails and other hardware including battens used in the construction of the cladding and façade system must have the required level of durability and comply with AS 3566.2- 2002 and AS 4773 which covers exposure to coastal or corrosive environments. At all times use Naxan proprietary stainless-steel shoulder screws CPSS25 for fixing to steel top hats and stainless steel 10ga x 50mm self-tapping screws to timber battens.

10. Fixing above metal roof

The effect of the roof heat flow onto the Naxan Cladding due to the ultra-violet rays reflecting off the surface can affect the plank under normal fixing condition. To reduce this effect, any plank that is used above a metal roof in any direction and cladding space which is within a 1.2m radius, battens must be fixed at a maximum of 225mm centres.

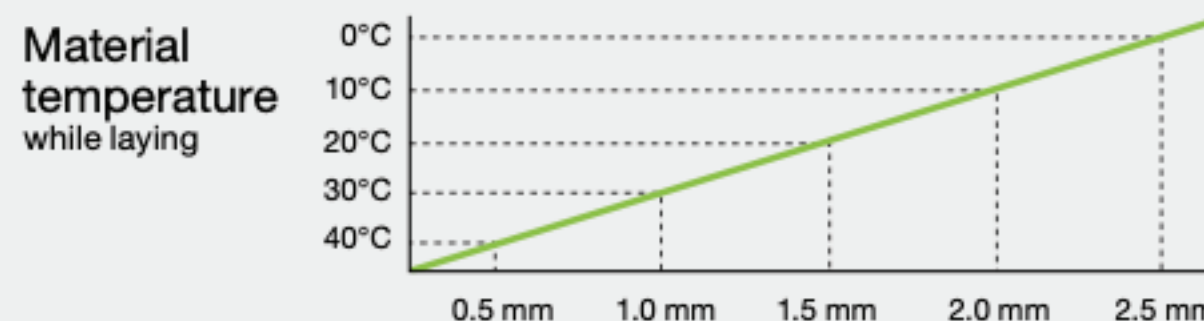
IMPORTANT: It is essential that any screw used for fixing Naxan Cladding should not be fully tightened.

11. Thermal movement

Naxan Plank only expands and contracts due to temperature along its length by approximately 1mm gap per metre over 10°C warmer than ambient temperature.

Expansion can be reduced by using shorter lengths. Installation should be carried at cooler ambient temperatures below 30°C.

When installing, appropriate expansion gaps should be allowed for lengthways between planks or between the end of a plank and a fixed structure, like a wall. Please use the table below to calculate the gap.



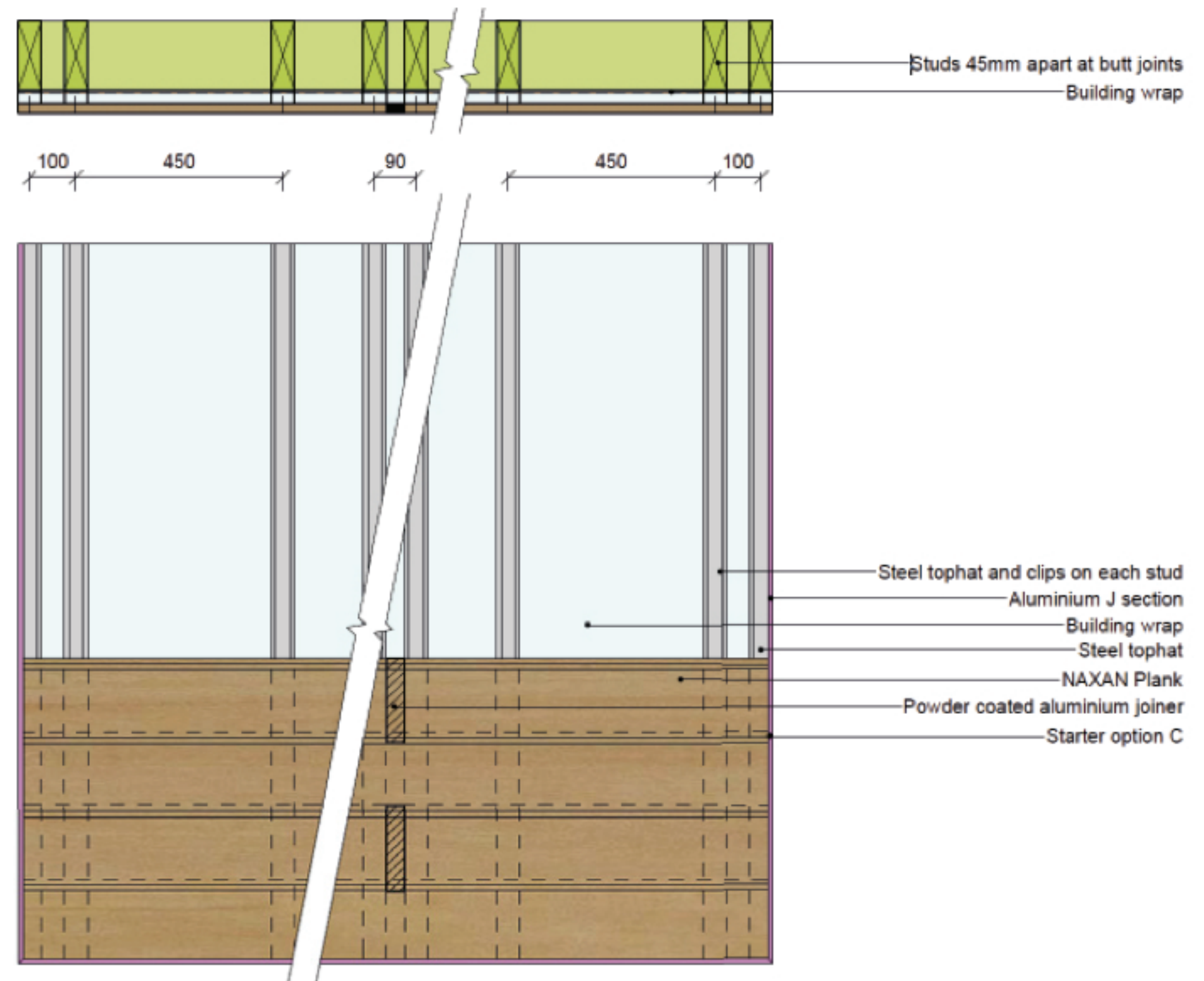
Minimum gap between the boards per running metre

Installation details

Easy steps

1. Cut last cladding to the preferred length.
2. Decide required height for final cladding based on unclad area.
3. Slide cladding from top (if eaves are not installed) and trim cladding to keep 1-2mm gap from finished structure or eave. Allow up to 10mm finished gap for ventilation if structure is above last cladding.
4. Keep 10mm gap for ventilation at the top unless cavity extends into roof space.

Horizontal installation

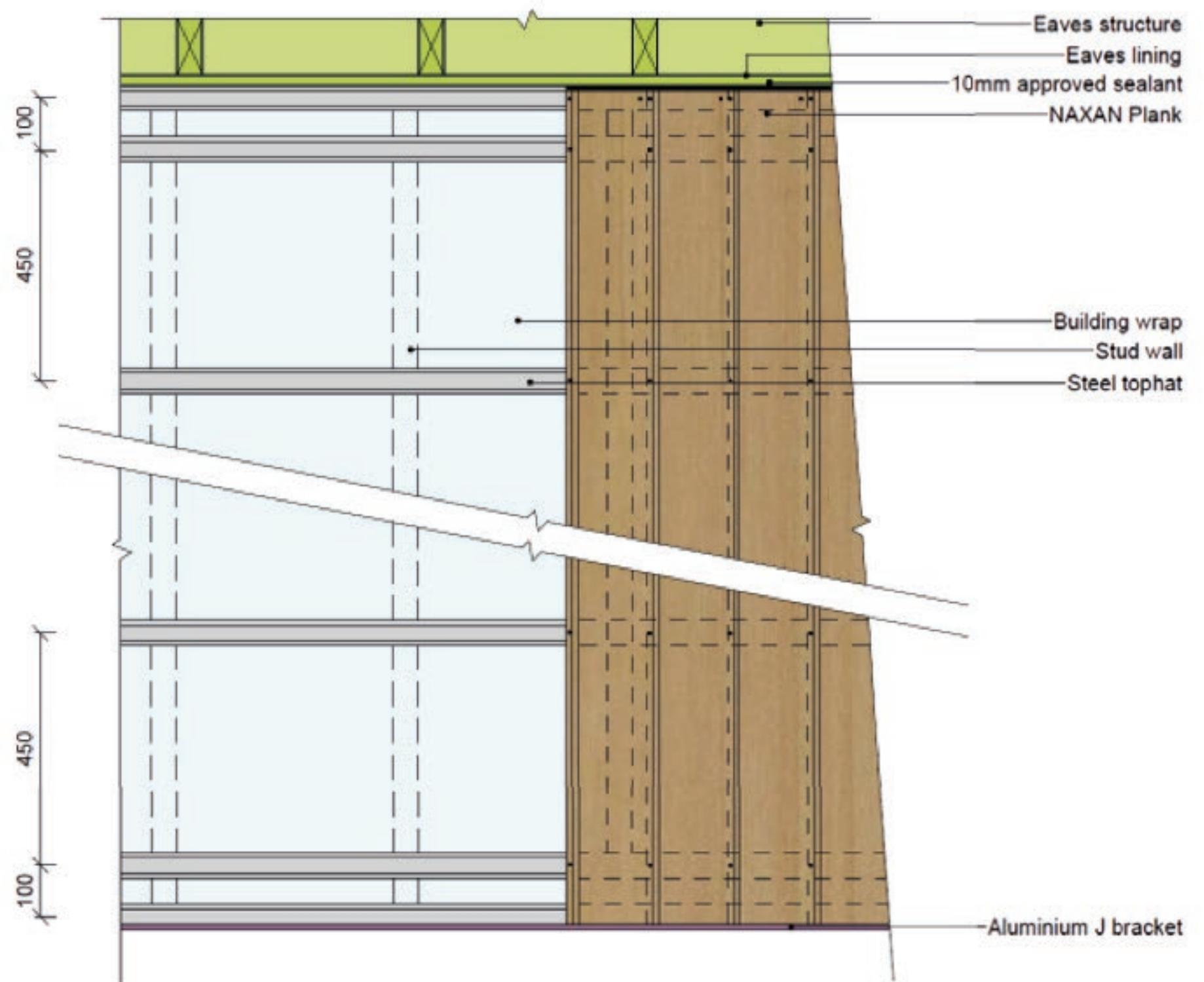


Internal stud spacing 600mm max
External stud spacing 450mm max

Easy steps

1. Place last cladding next to the previous cladding and push into position so that it is held properly.
2. Drill 10mm clearance holes from leading edge aligned with top hats.
3. Fix cladding using only approved screws.
4. Use aluminium angle or similar to cover screw heads.

Vertical installation

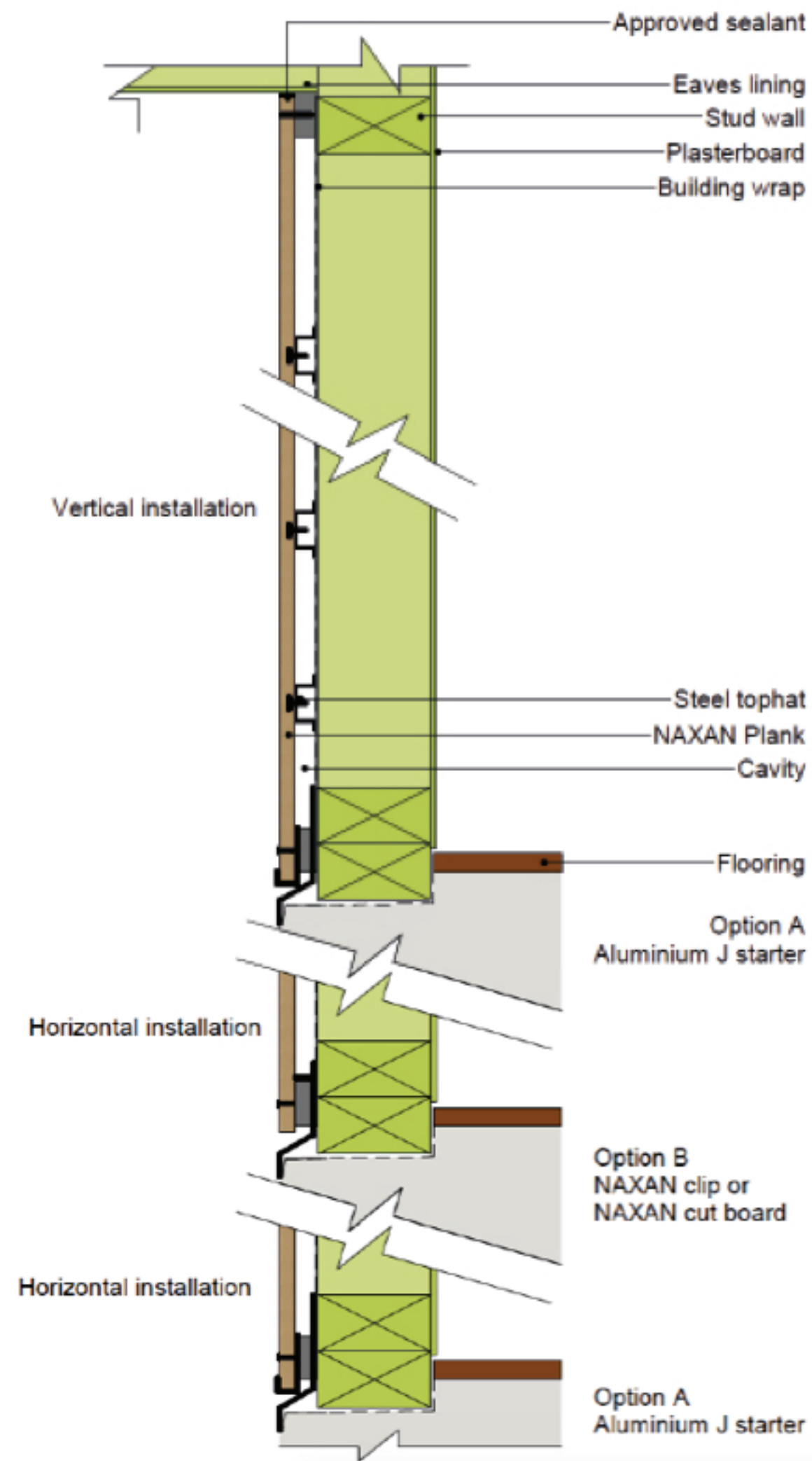


70 x 35 timber batten can substitute steel tophats

Easy steps

1. Fix bottom top hat plumb and level around the building.
2. Mark level lines on building wrap and install starter trim in the right position.
3. Top hats must be discontinuous at control joints.
4. Additional top hats to be installed above and below each window and above each door.

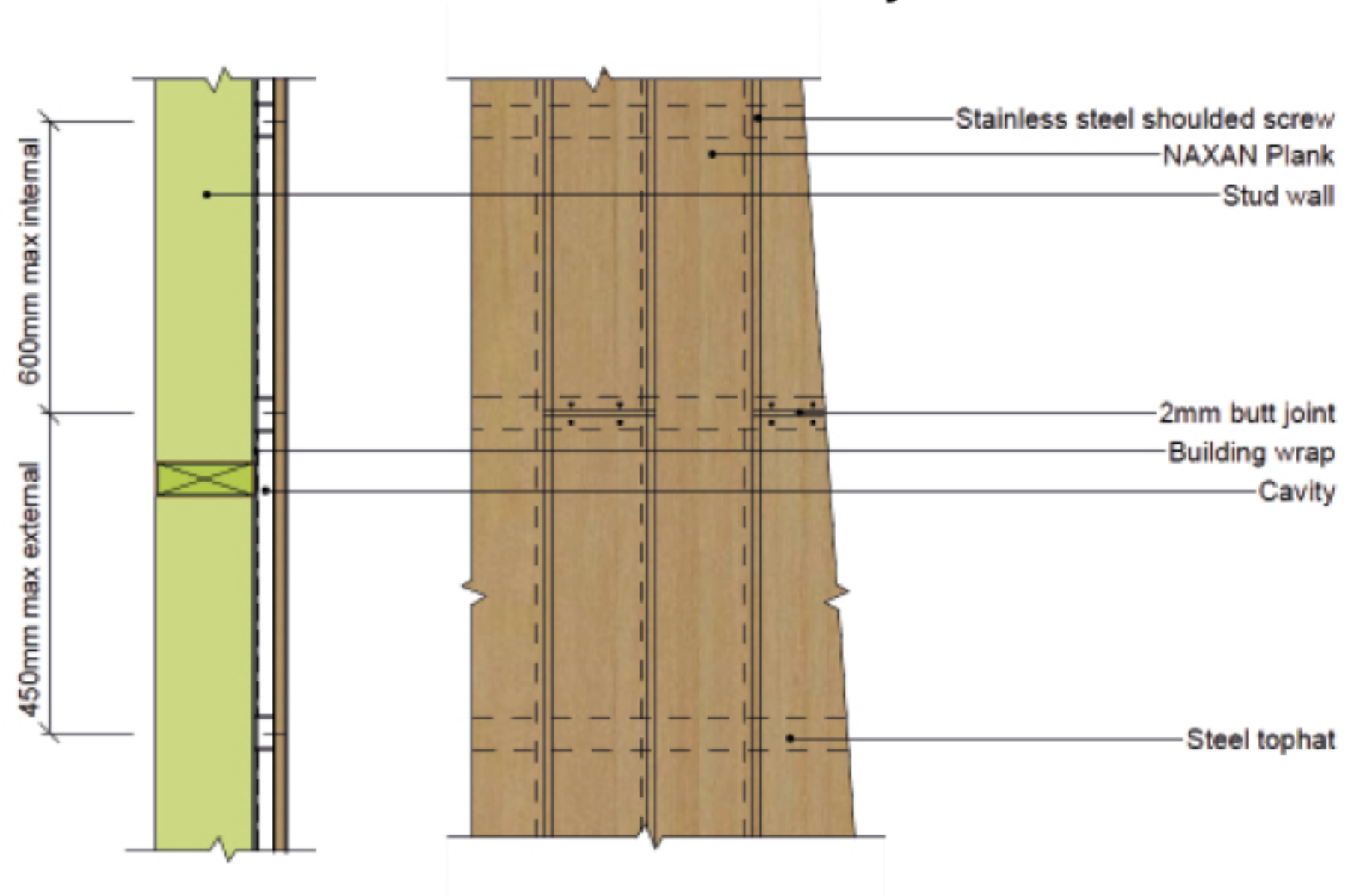
Vertical section



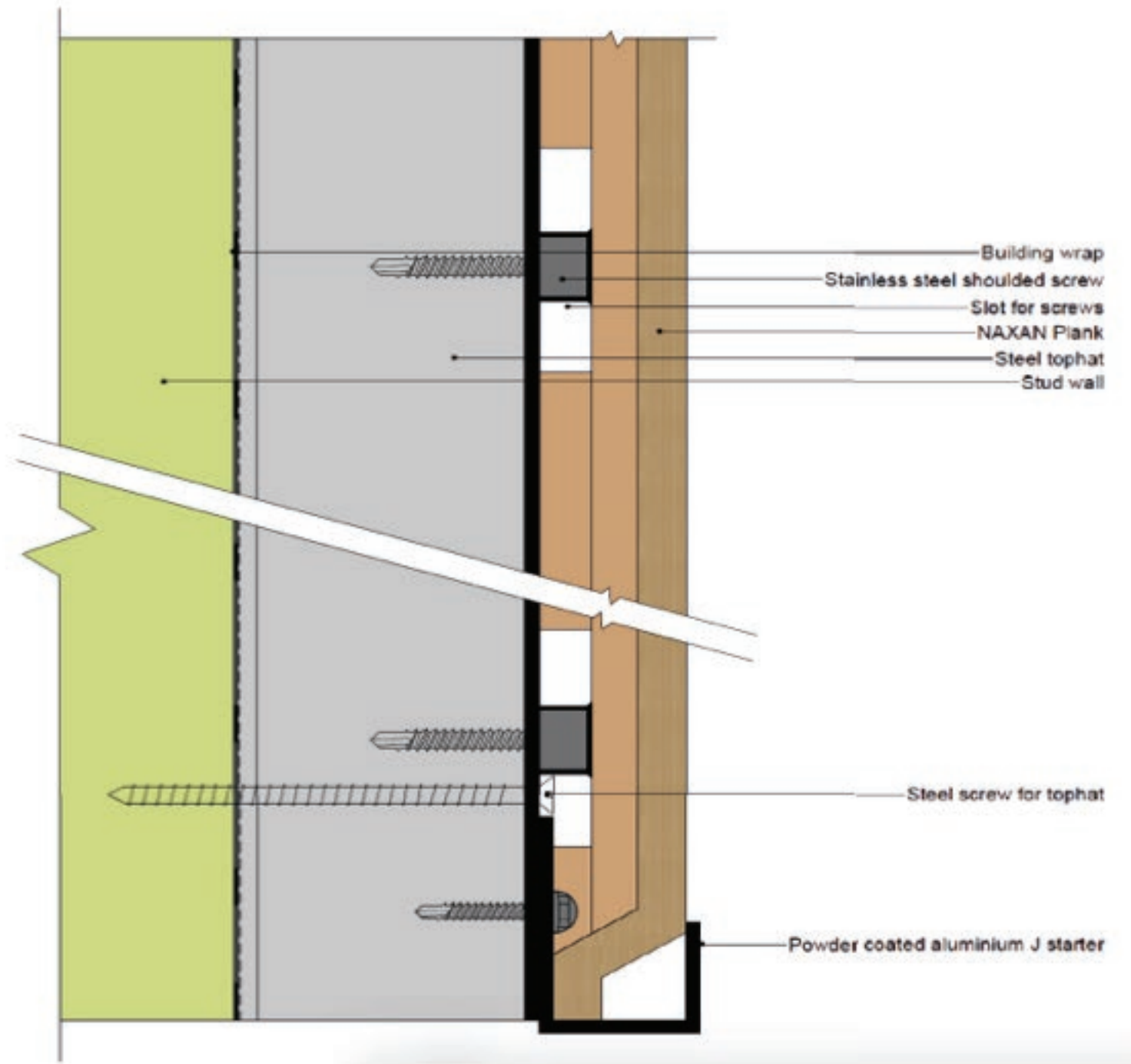
Easy steps

1. When preparing framing for butt joints, ensure noggins are fixed securely between battens and aligned with cladding's groove.
2. Where butt joints are required set 2mm gap between cladding's ends. Set butt joints on single top hats/ batten.
3. Concealed fixing must be at butt joints using 2 screws in the groove of each cladding.
4. Approved sealant may be used at cladding ends before setting against adjoining cladding for weather tight installation.
5. Drill and screw cladding in the groove making sure butt joint is exactly in the centre of top hat/ batten. Drill and insert face fix screws on either side of but joint.
6. Cladding must span minimum 3 top hats/batten if butt joints are set aligned or randomly.

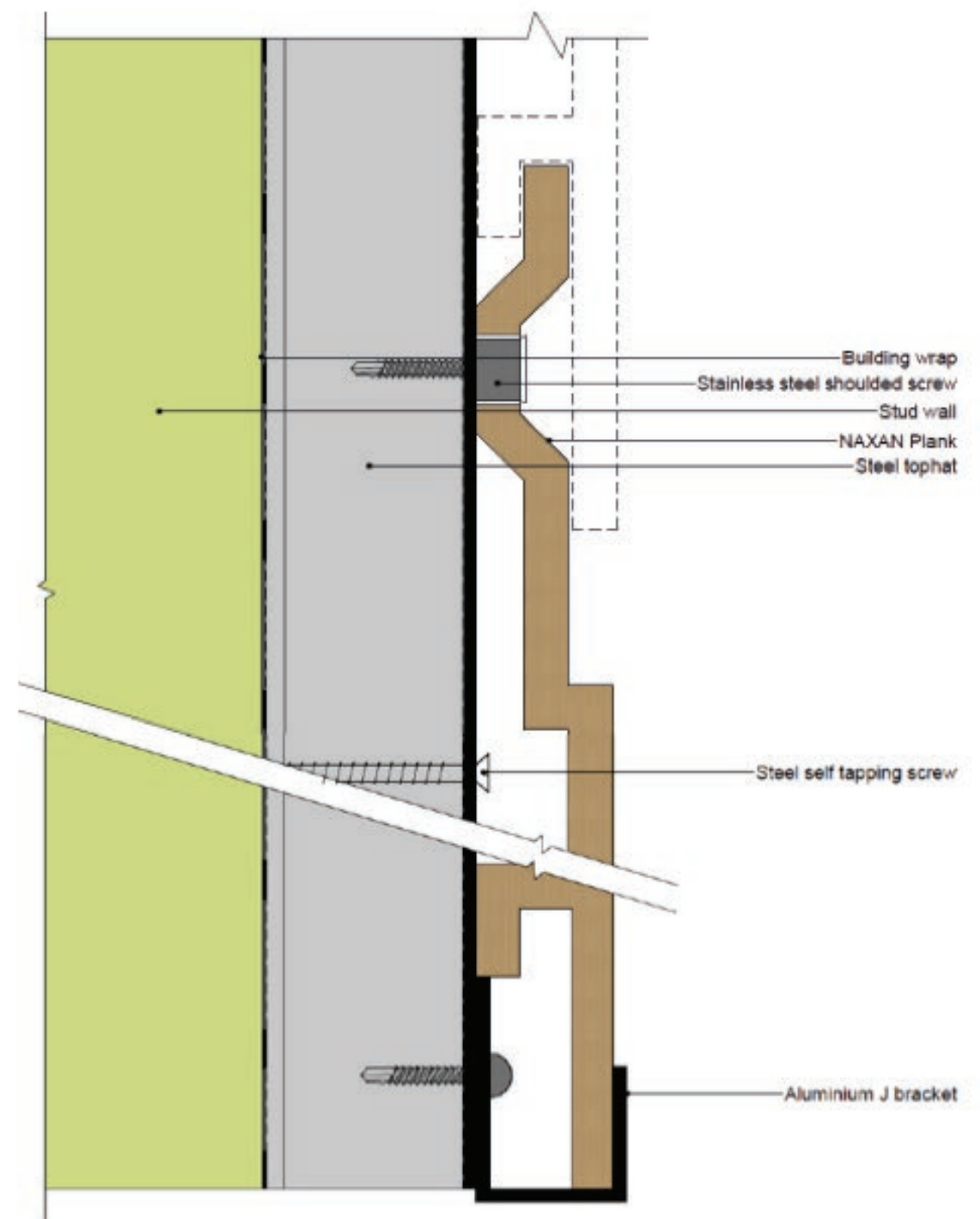
Vertical installation with butt joints



Starter option – Vertical installation



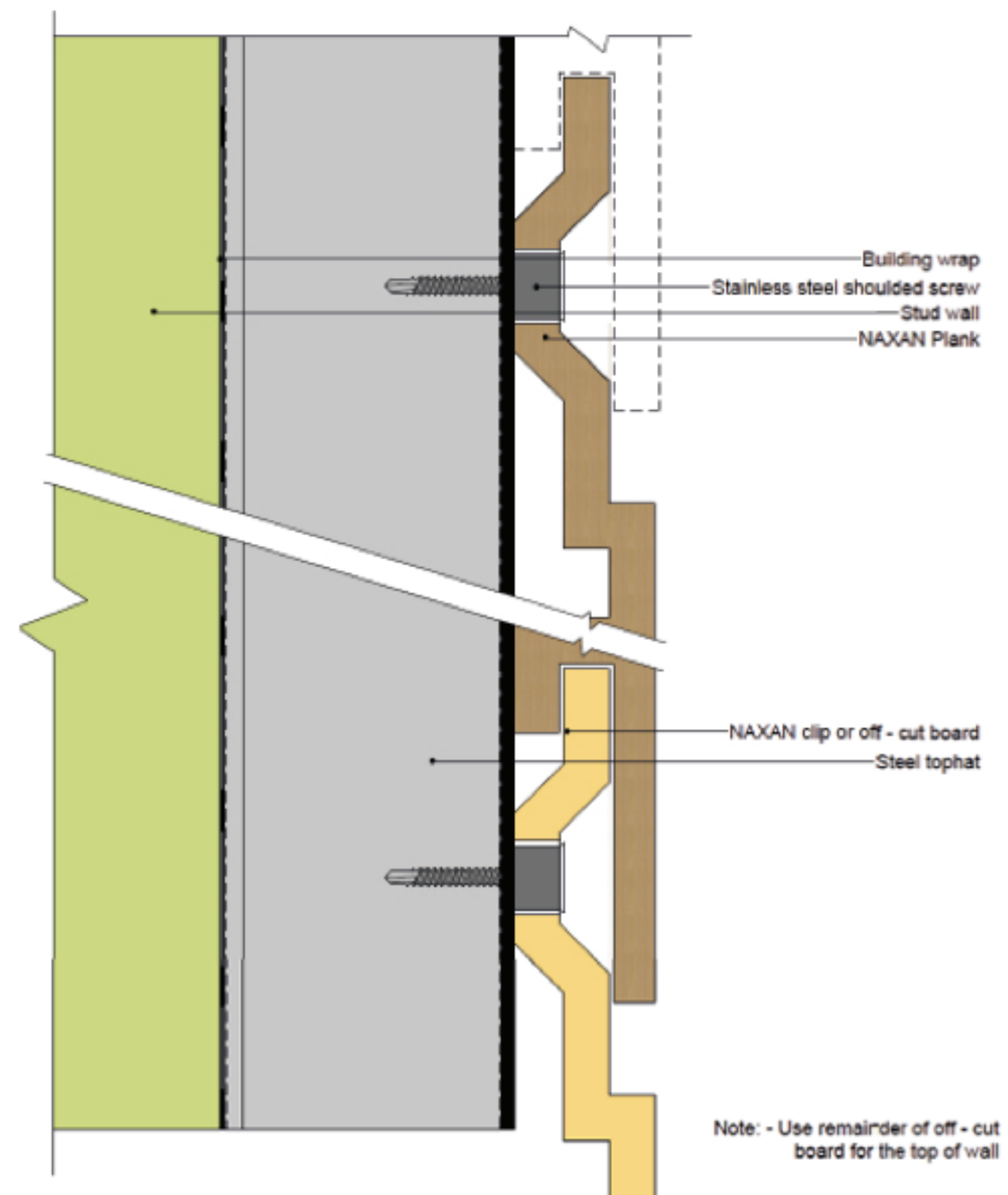
Starter option – Horizontal



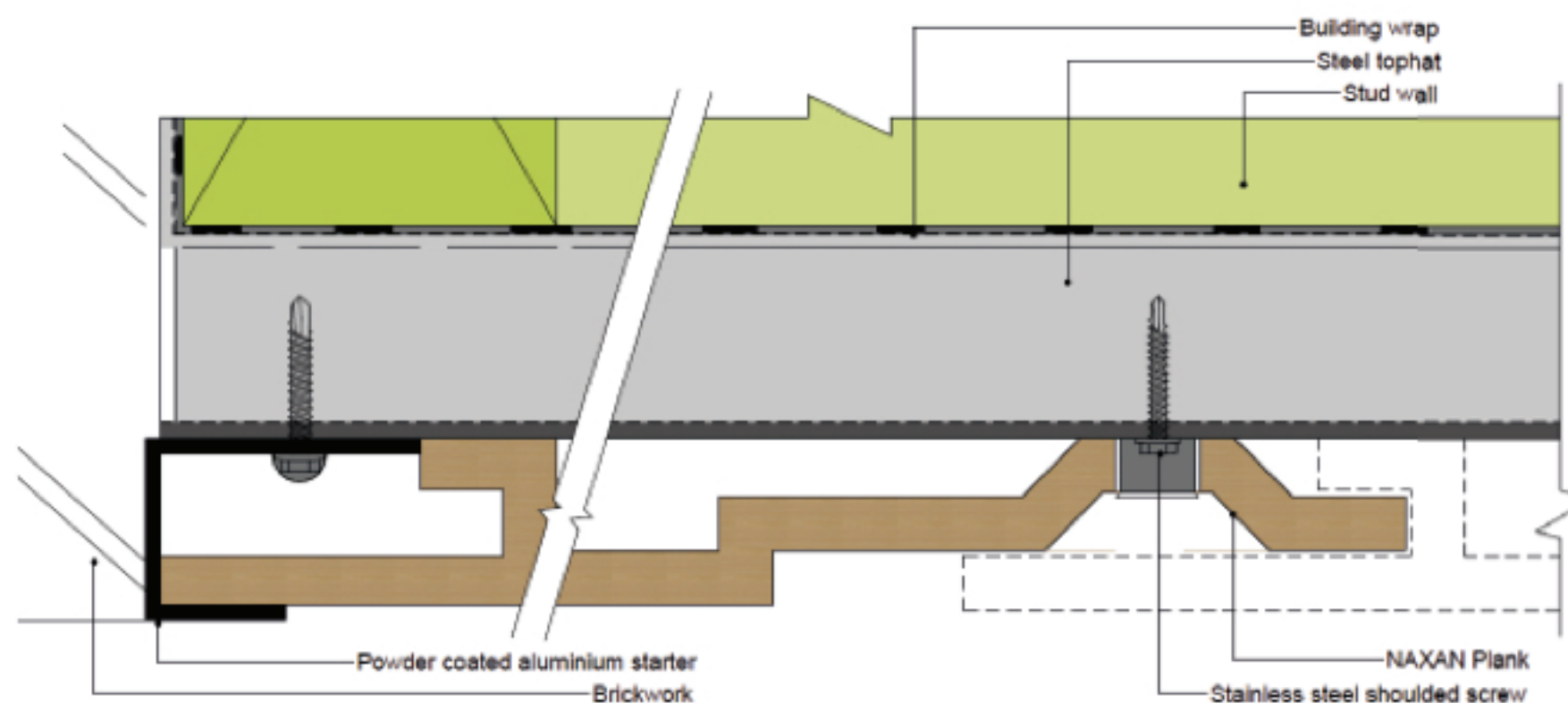
Fixing using starter clip or cladding off-cut

Easy steps

1. Cut starter trim from first cladding. Ensure it is plumb and level and use CPSS25 to fix in place.
2. Position cladding correctly on starter cladding with hole centres lined up with battens.
3. Fasten first cladding similar to starter trim from the centre out. Use 25mm long self-tapping stainless-steel screw to fix cladding starting at the centre of each cladding.



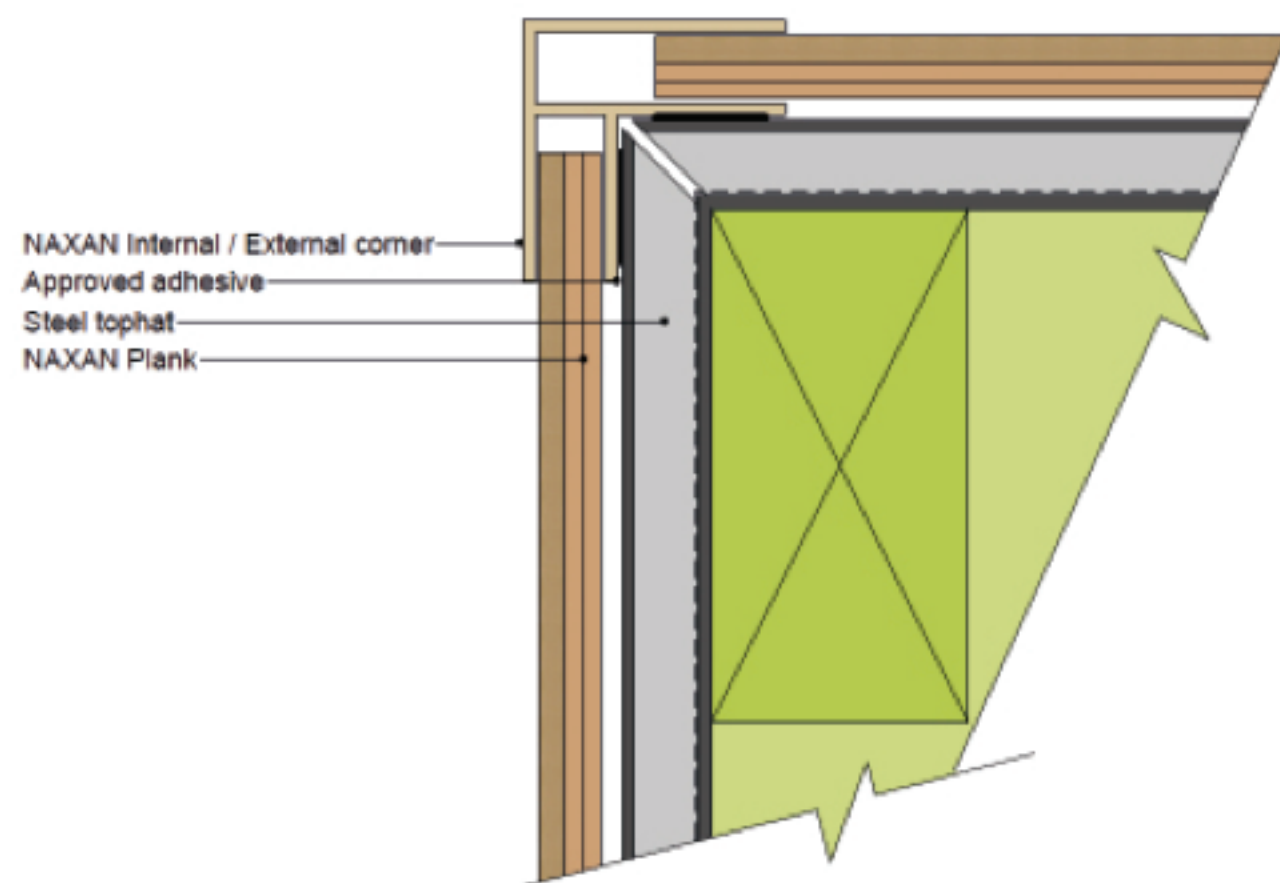
Edge starter – vertical installation



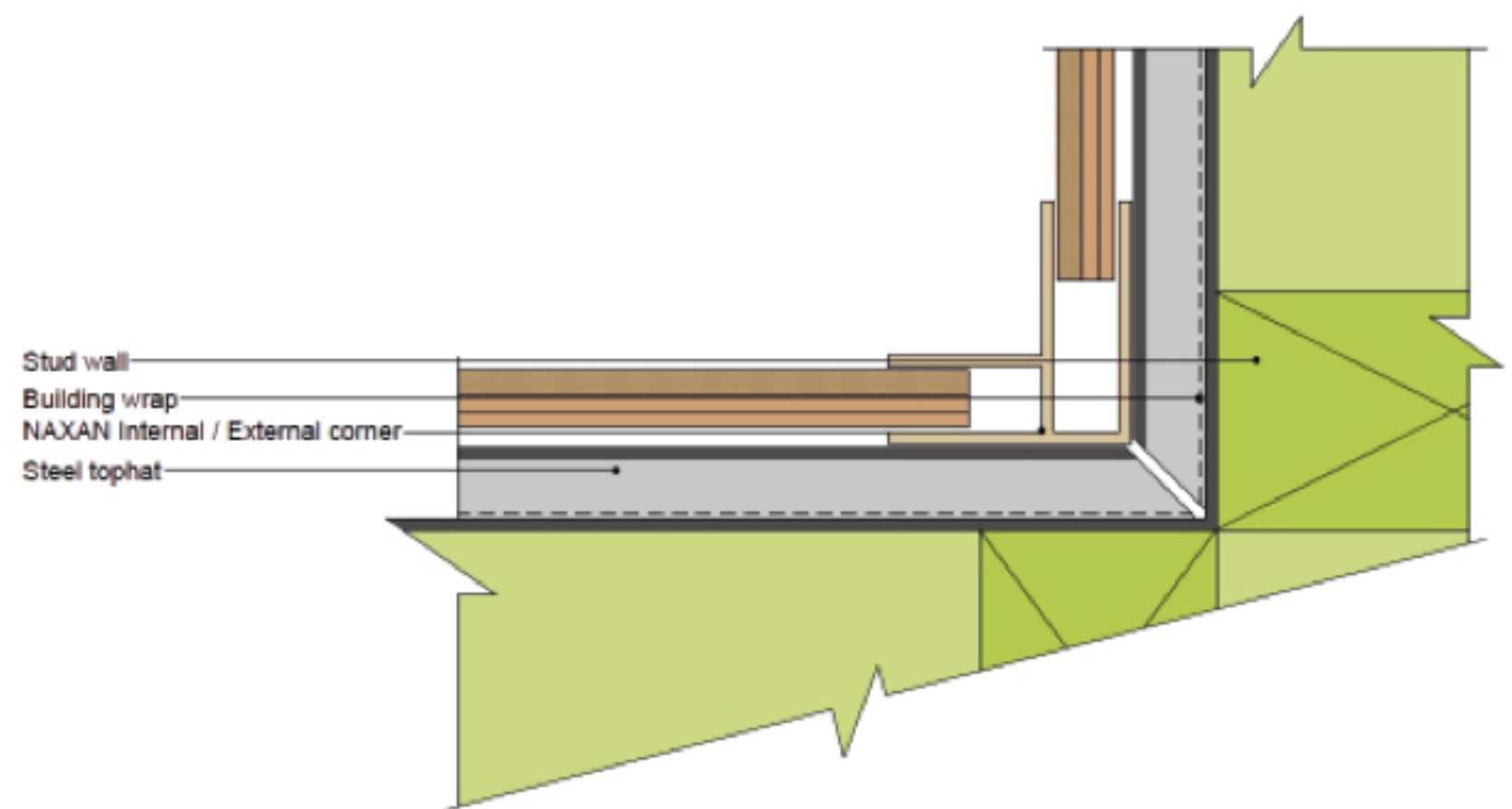
External corner option A – Horizontal installation

Easy steps

1. If external corner is used, apply construction adhesive to both sides and secure to steel top hat on the external corner. Same for internal corners.
2. Ensure planks are cut 8mm short to allow for expansion and contraction.
3. Place ends of planks into corner planks before fixing in the middle of the plank if there are no butt joints between the corners.



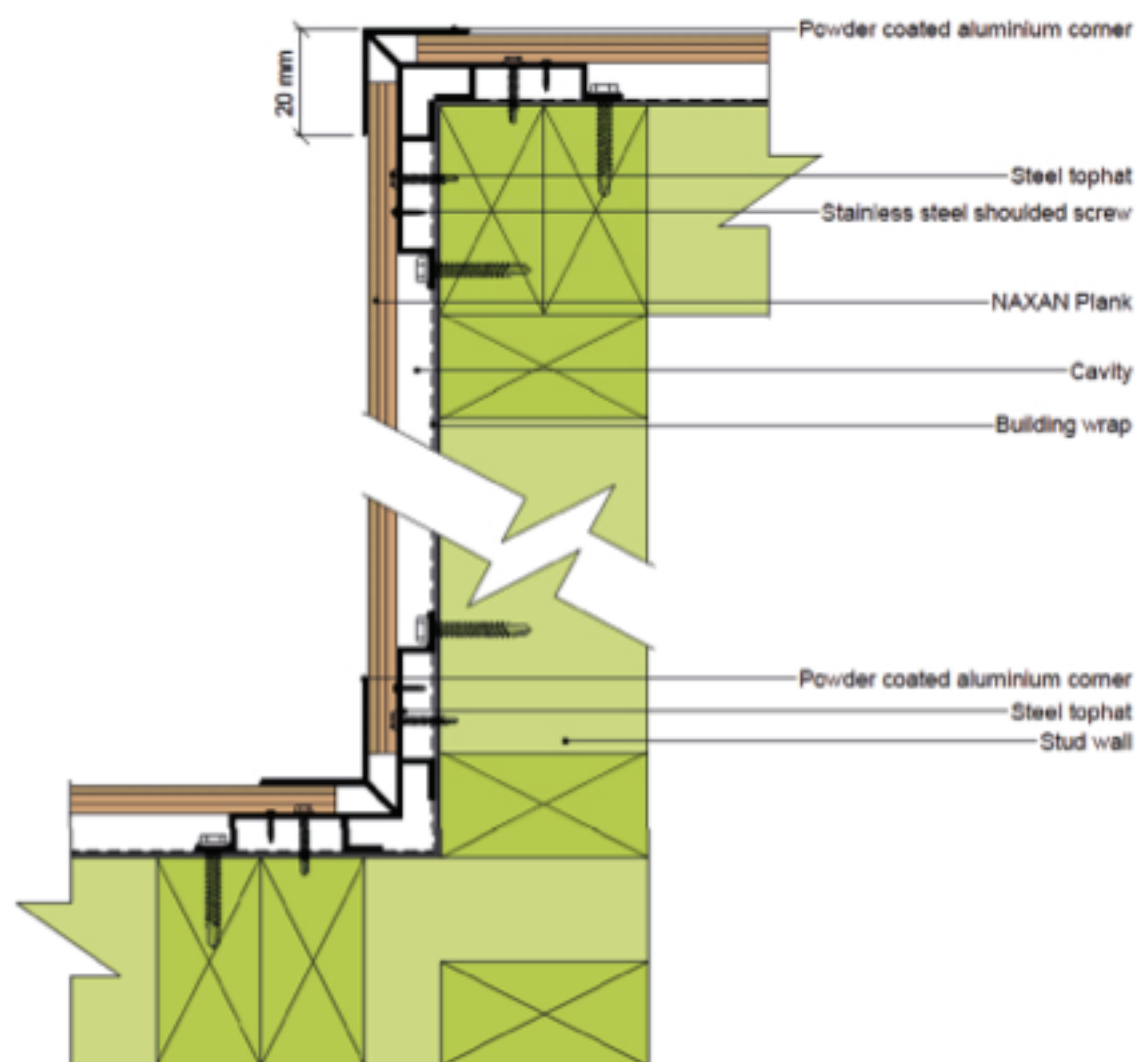
Internal corner option A – Horizontal installation



External and Internal Corner Option B – Aluminium

Easy steps

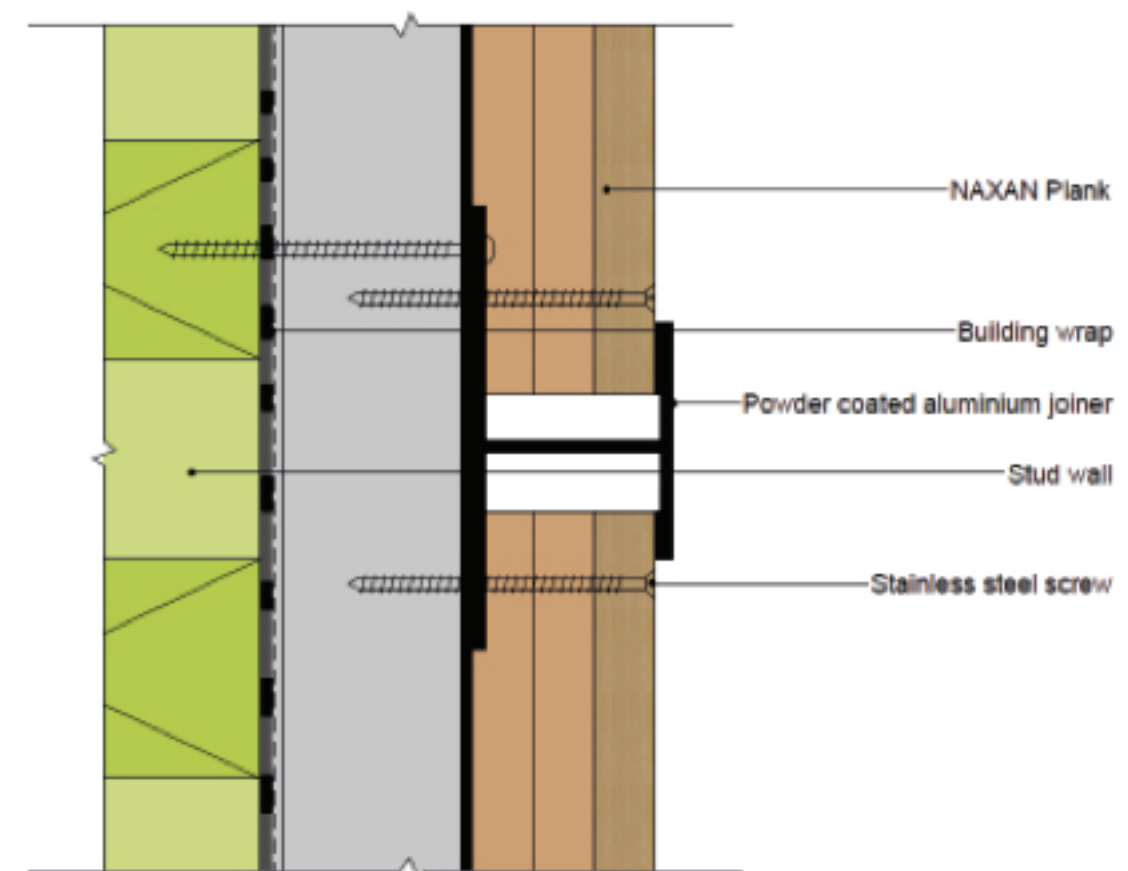
1. Place aluminium Part A external or internal corner cladding into position.
2. Cladding should sit mid-way in between the recess provided in the aluminium corner ensuring required gaps for expansion and contraction.
3. Ensure cladding is cut 8mm short to allow for expansion and contraction.
4. Install Part B of the aluminium corner after the installation of claddings.



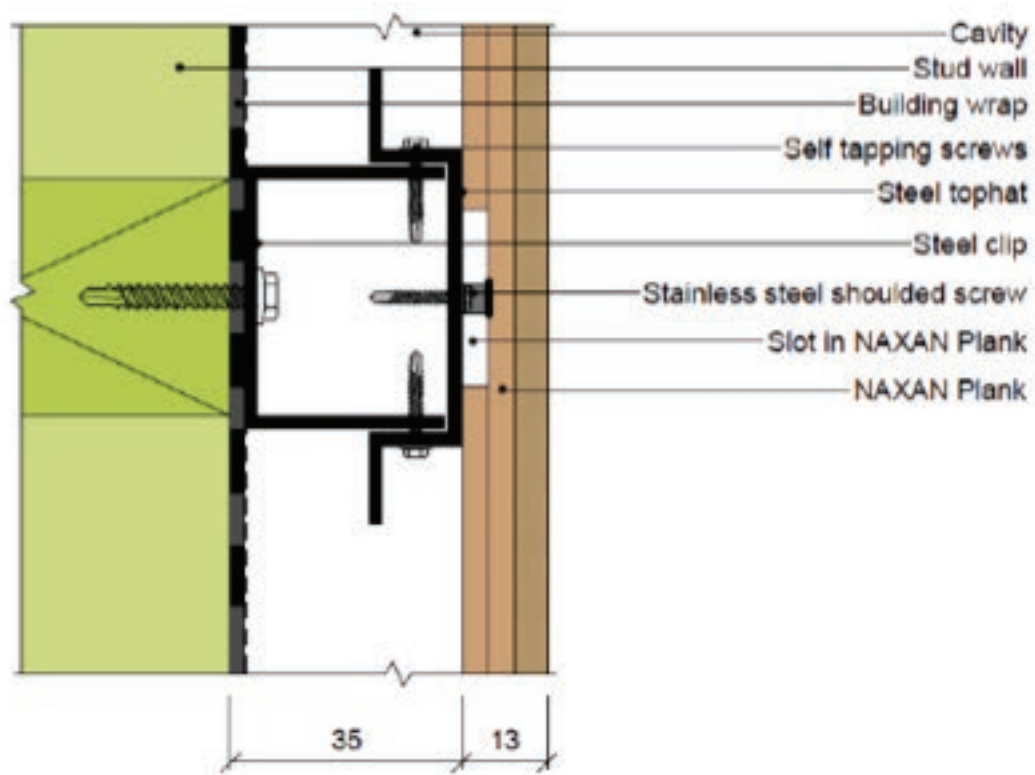
Joiner Detail – Vertical or Horizontal Installation

Easy steps

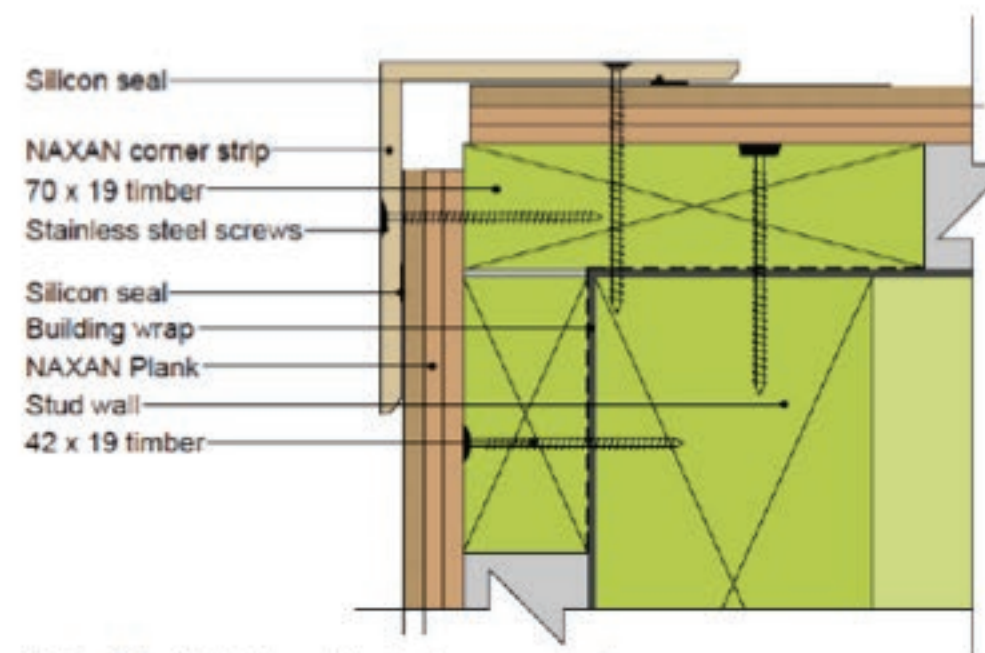
1. Place aluminium joiner in position and screw to the steel top hats or timber battens.
2. Cladding should sit mid-way in between the recess provided in the aluminium joiner ensuring required gaps for expansion and contraction.
3. Ensure claddings are cut 8mm short to allow for expansion and contraction.
4. Use 8g x 25mm self-tapping counter-sunk screws on expansion trims if using aluminium joining strips.



Stud Detail for Horizontal Installation

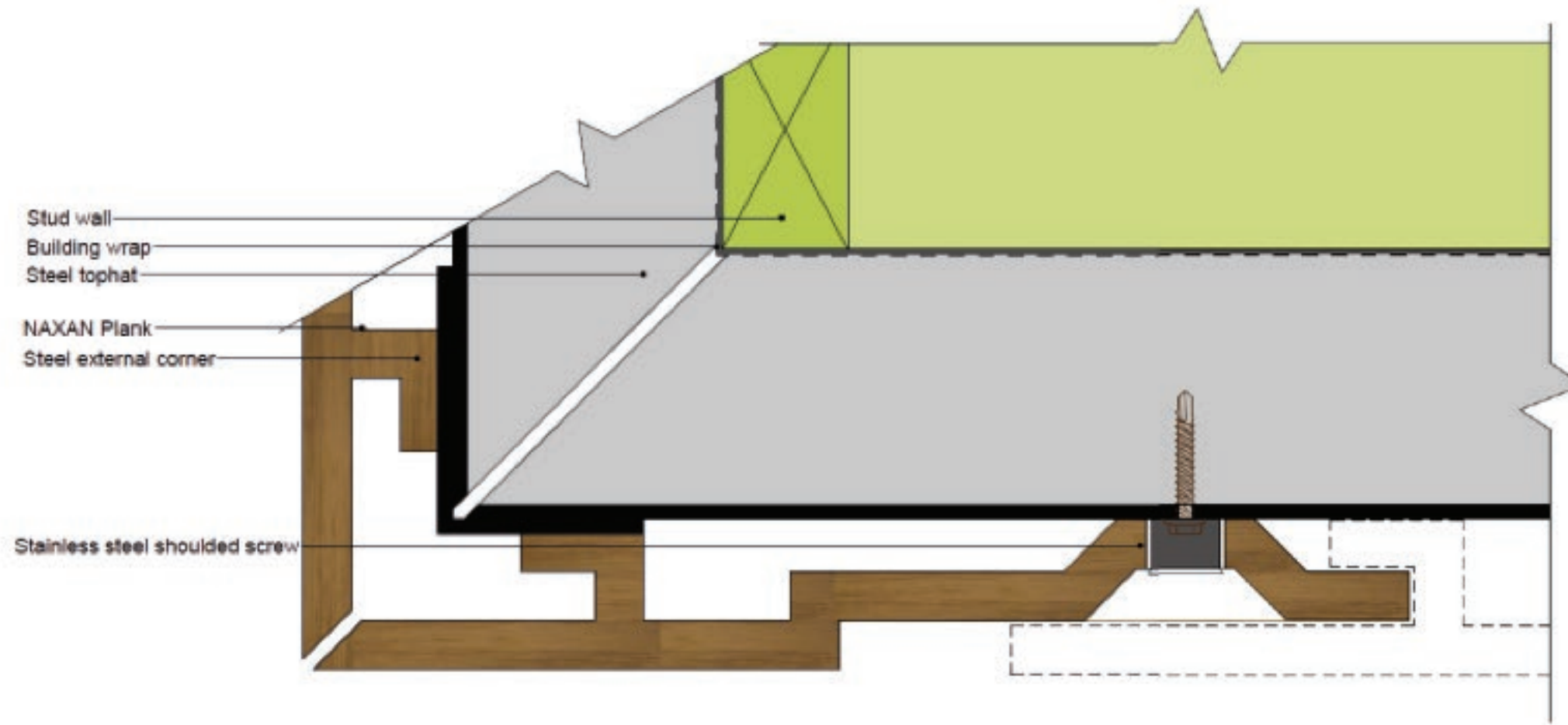


External Corner Option B – Horizontal Installation



Note:- This detail shows the planks secured with the Naxan corner strip.
Horizontal installation uses timber battens in lieu of steel tophats and clips.

Mitered Corner Vertical Installation



Surface finishing

Naxan cladding) made with Resysta® will not fade or rot like timber (softwood/hardwood) and can be stained and sealed using NaturalStain™ range of stains and sealer by Intergrain® to create modern, eye-catching finishes.

Intergrain NaturalStain is a high performance, semi-transparent, water based stain designed to transform the colour of the Naxan cladding.

When applied to correctly, NaturalStain will NEVER flake, blister or peel. NaturalStain delivers a wide range of colour options to cater for individual designs. NaturalStain is extremely durable and withstands wear on cladding and decking without the need for a top-coat.

Preperation & Application Procedure

Methods: spray (air assisted airless or airless), lambswool applicator, quality brush.

1. Clean Naxan (cladding/decking) with soapy water and rinse thoroughly. Remove excess pooled water and ensure surface is clean and free of dust and any other latent material.
Allow substrate to dry thoroughly.
2. Do not apply in temperatures above 35°C or below 10°C or if rain or dew is expected within four hours of application.

To achieve the best possible finish when coating large areas or in warm conditions, add Intergrain Hot Weather Additive™ to NaturalStain according to label instructions.

3. Stir Intergrain NaturalStain thoroughly before and during use with a flat blade stirrer. If the project requires more than one can of NaturalStain, mix all cans together in one large container to achieve colour uniformity.

4. Test a small area to ensure satisfaction with the colour and finish before staining the whole project. Use natural breaks in the deck to define the area.
5. Apply two coats of NaturalStain, allowing two hours drying between coats using a quality brush, lambswool applicator or spray (air assisted airless or airless).
6. When staining large areas, stain no more than three boards at a time. Complete an entire length or continue to a natural break such as a window.
8. Allow a minimum of two hours to dry before applying a second coat. (Optimum drying times are calculated at 25 degrees C and 50% relative humidity)

Colder temperatures and higher humidity can extend drying times.

Maintenance

All surface coatings will deteriorate over time. The speed of deterioration is dependent on many factors including traffic and exposure to the elements. We recommend that an annual maintenance inspection is conducted to ensure any coating deterioration is identified early.

To apply a maintenance coat to a surface which is in good condition, clean the surface and apply one coat of NaturalStain to dry timber.

Note: Maintenance coats of NaturalStain will continue to develop the colour intensity.

Product information

1. Fire resistant

Naxan Cladding is certified to AS1530.8.1-2007. It can be used in bushfire prone areas that have a bushfire attack level (BAL) up to and including BAL-40 as specified in Exova Warrington Aus Pty Ltd Report No. 44186100.2 and Ignis Evaluation Report No. IGNS-6066 Issue 01 Revision 01 [2018]. The report allows for Naxan Cladding to be used as external cladding and ceiling in outdoor living areas in bushfire prone areas for buildings of Type A, B or C construction and of Class 1, 2 to 9 and 10 occupancies. Frame must be constructed from non-combustible materials or bushfire-resisting timbers. Refer to AS 3959-2009 when constructing frames in bushfire prone areas.

2. Storage and handling

Naxan Cladding must be laid flat on a level surface. 3.0 -metre-long packs require at least six gluts under the pack for proper storage. Naxan Cladding must be stored under cover (not in the open covered or wrapped with plastic sheet) until ready to install. Condensation and accumulated water can cause staining.

Do not slide claddings against each other when removing from the pack to avoid visible scratches and marks on the claddings. The claddings must be carried on their edges and handled with care.

3. Health and safety

A Safety Data Sheet is available upon request with Naxan Cladding. Dust is produced during cutting, grinding or drilling of the cladding. Approved dust masks and protective safety glasses or goggles must be worn for dust generating operations.

4. Naxan Cladding maintenance

Because Naxan Cladding may be exposed to weather conditions and temperature changes all year round, periodical maintenance is recommended to forestall repairs, protect your investment and maintain the beauty of the cladding or facade.

Sustainable



Made from 100% natural materials, Naxan is a truly sustainable product that does not impact the environment.

Safe



With a BAL 40 fire rating and slip-resistant properties, Naxan is a recommended solution in areas where the highest levels of safety are required.

Durable



Naxan offers a high level of durability – it doesn't rot, warp, crack or splinter – making it perfect for a variety of installations.

Versatile



Naxan offers a high level of durability – it doesn't rot, warp, crack or splinter – making it perfect for a variety of installations.

Strong



Offering impressive flexural, compressive and shear strength, Naxan is a tough and long-lasting product for the built environment.

Smart



Utilising world-first German engineering and design, Naxan has a 15-year warranty and is already used widely across Europe, Asia and the USA.

Here are some simple maintenance tips to help keep your cladding or façade looking great

1. Exterior cladding and façade can be easily cleaned using pH neutral detergent. Use a long handled soft mop or cloth to avoid any scratch. Always test any cleaner on a small portion before cleaning the entire surface.
2. Do not allow any form of stain such as bird's droppings to remain on the coating for an extended period of time as it may become very difficult to remove them afterward.
3. Always cover the cladding or façade during any kind of renovation works to avoid stains from getting in contact with the coating or surface.
4. Brush up normal dirt and dust from the surface using a soft broom.



An outstandingly awarded material



**Green
Product
Award**

Winner
2018



Made from 50%
recycled content
Certification number:
043-012



MaterialPREIS

Material PREIS 2013
Red Dot award:
product design 2012
for Resysta Marine



reddot

RED DOT 2012
Resysta wins the
Red Dot product
design award 2012

DETAIL

Detail by Architects - Build - News of Architecture - News of Interiors

DETAIL 2011
Resysta wins the
Detail competition
2011

dwell
ON DESIGN

DWELL 2011
Resysta wins the
design and product
award 2011



AIT Innovation 2011
Resysta wins the
innovation award
for sustainability

Warranty and responsibility

Warranty

Product warranty statement for the Naxan cladding is available on the way website www.naxan.net.au. Naxan warrants that the Naxan cladding is free from defects in materials and manufacture subject to the conditions and exclusions set out in the Product Warranty Statement.

Responsibility

The final installation specification and compliance of the cladding and façade using Naxan cladding lies solely with the party responsible for the project. The design considerations, fixing and installation details in this guide represent common types of construction and installation practice used in Australia.

Disclaimer

The information contained in this installation guide is only advisory and general in nature. It is not intended to substitute advice or consultation from registered building professionals to ensure designs, systems and installation for projects confirm to the National Construction Code or any other laws imposed by the States, Territories or local councils. The user of this guide understands and agrees that Texo, its member companies, its officers, agents and employees shall not be liable in any manner under any theory of liability for the user's reliance on this guide. The user agrees to release, hold harmless and indemnify Texo, its members companies, successors, assigns, officers, agents and employees from any and all claims of liability costs, fees (including lawyer's fees), or damages arising in any way out of the use of this information. If you have any questions, please visit www.naxan.net.au or call the company.

