ASH & LACY

Technical Resource

Technical Guide
NaturAL-X Brick Cladding System

Technical Resource
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Contents

NATURAL-X TECHNICAL INTRODUCTION 2

WHERE TO USE NATURAL-X 2
SYSTEM PERFORMANCE 3

NATURAL-X INSTALLATION GUIDANCE OVERVIEW 4

SPECIFICATION, HANDLING AND LAYING GUIDELINES 5

PRODUCT SPECIFICATION 5
SYSTEM COMPONENTS 5
SIZES AND WEIGHTS 6
THERMAL CONDUCTIVITY 6
SUBSTRATES 6
SETTING OUT 7
MOVEMENT 7
EXISTING STRUCTURES 7
NEW BUILD STRUCTURES 8
VENTILATION AND DRAINAGE 8
LOAD FIXING TO NATURAL-X FAÇADE 8
CUT ON SITE 9
POINTING 9
CLEANING 9
HEALTH AND SAFETY 10
HANDLING AND STORAGE 10
ON SITE HANDLING 10
DISPOSAL OF PACKAGING 10
COSHH 10
MANUAL HANDLING 11
DAMAGE - REPAIRS 11
MAINTENANCE 11
RECYCLING 11

NATURAL-X WARRANTY DETAILS 12

SUMMARY OF THIRD-PARTY TESTING 13

CERTIFICATION 13
MATERIALS 13
TEST PROGRAMME 13
WIND RESISTANCE – SERVICEABILITY AND SAFETY 13
WATER TIGHTNESS –DYNAMIC PRESSURE 13
IMPACT RESISTANCE 13
FREEZE/THAW RESISTANCE 13
REACTION TO FIRE 14
ADDITIONAL TESTING 14

NATURAL-X TYPICAL DETAILS 14

NaturAL-X Technical Introduction

NaturAL-X is mechanically fixed brick slip system, featuring aluminium support rails secured to AxiAL-Cladding support system fixed back to the structure of the building.

Where to use NaturAL-X

The system is ideal for either exterior or interior applications as a lightweight solution for brick cladding.

Use NaturAL-X for:

- Steel frame
- Concrete frame
- Brickwork
- Dense concrete blockwork (minimum 1450kg/m³)
- Lightweight steel framing
- Existing masonry
- Unitised Frames
- Modular Frames

Please check the suitability of NaturAL-X for your project with your local Ash & Lacy representative.

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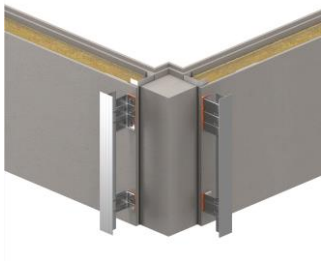
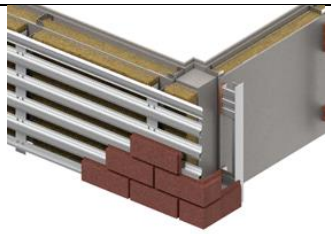
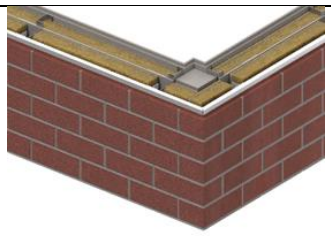
For more information:

https://www.ashandlacy.com/products/facade/natural-x/

System Performance

NaturAL-X achieves Reaction to fire classification: A1 to EN13501-1	
	NaturAL-X Brick Slip Cladding System and AxiAL Supporting System is covered by BBA certificate: 20/5773
NaturAL-X holds third party performance testing from VINCI TECHNOLOGY CENTRE, WARRINGTONFIRE and LUCIDEON (CERAM), the ceramic industry test centre. A summary of 3rd party testing is on page 12.	
Extruded clay brick slip. Fully mechanically secured brick slips. Pre-spaced mortar bed joints. Compatible with a range of construction methodologies.	
Ash & Lacy carry ISO9001 accreditation and ISO14001 accreditation	CWCT Certification

NaturAL-X Installation Guidance Overview

	Step 1 – Steel frame -Mechanically fix horizontal rails to framework prior to affixing vertical supports via brackets supplied. Masonry substrates - Mechanically fix vertical support rails to the building substructure using brackets supplied at 600mm maximum centres.
	Ensure the starter rail is affixed at the base of the elevation and below horizontal movement joints. Ensure the middle rails are the correct orientation. Install top rail below openings and at parapet detail.
	Step 2 – Fix all brick rails to all vertical rails at 75mm vertical centres. A gauge tool can be supplied to allow simultaneous setting out/fixing of horizontal rails
	Step 3 – Slot NaturAL-X brick slips firmly into place, guided by the pre-formed upper and lower retainers.
	Step 4 – NaturAL-X brick slips have integrated rebates consistently setting the horizontal bed and vertical perp mortar joints at 10mm and should be aligned according to the brick bond pattern desired.
	Step 5 – When installation is complete simply injection lime based pointing mortar to realise a classic clay brick finish.

Specification, Handling and Laying Guidelines

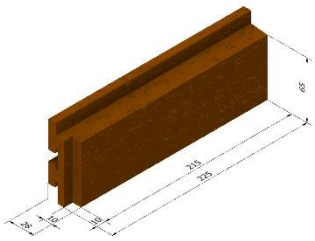
Product Specification

A non-loadbearing external cladding tested to CWCT standards and BBA approved, fixed back to provide weather protection to an inner leaf, drained and back ventilated, suitable for both new build and refurbishment projects.

System Components

Extruded Brick Slip

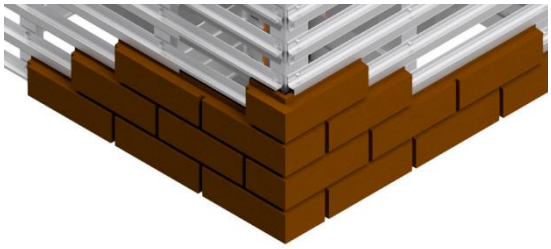
Purpose made clay extruded brick tiles with overall dimensions are 28 mm/48mm x 80 mm x 225 mm. Brick face dimensions 65mm x 215 mm when installed with mortar joints.
Standard bricks face dimensions are 215x 65mm, however non-standard sizes can be accommodated subject to application.
Finishes: Please note batch colour variations can occur due to natural raw material variances.



Pointing Mortar

The system has been tested using Parex Easipoint / Instarmac – Limepoint Plus / VPI Tradijoint / PRB gun injection pointing mortars which has excellent adhesion and movement accommodation properties. A bucket handle joint profile is recommended.

Support System



Mill finish aluminium slip support rails can be affixed either directly to the substrate, or to AxiAL-Cladding support system. Specific pre-notched 'corner rails' are required at corner and reveal junctions to allow fitment of corner bricks.
For steel frames, dependent on SFS stud centres, additional horizontal 'top hat' rails are available if required to fix support rails back to the substrate.

Fixings

All system fixings are stainless steel fixings.
Bracket/substrate, mullion/bracket and brick rail/mullion fixings are supplied where necessary.
Fixings, brackets and support rails are supplied by Ash & Lacy. The quantity is calculated on the project-by-project basis.

Sizes and Weights

Vertical support rail length: 3 metres or 6 metres available.
Starter rail length: 3000mm
Middle rail length: 3000mm
Top rail length: 3000mm

Brick slips typically 225mm x 80mm x 28mm weight approximately 47.4kg per m^2.
Cut and bonded variants for corners, sill and rebates are available which will increase or decrease individual slip weights.
Rail System weight approximately 4.48kg/m^2
Pointing mortar weight approximately 5.3kg/m^2
System weight approximately 57.5kg/m^2 when using 28mm thick brick slips.
System weight approximately 100.5kg/m^2 when using 48mm thick brick slips.
Please note that above weight does not include AxiAL-Cladding support system. The weight of support system is subject to bracket length and single and double bracket ratio (based on static calculations).

Thermal Conductivity

The average thermal conductivity (k value) for clay brick slips is 0.71W/mK.

Substrates

Then NaturAL-X brick slip cladding system and AxiAL-Cladding support system are suitable for use as protective and decorative back-ventilated and drained rain-screen cladding system on external walls of domestic and non-domestic buildings above the damp-proof course (DPC) level in areas with non-severe exposure to chemicals.
NaturAL-X is intended to be used as a cladding system and is not self-supporting. Ensure the substrate is robust enough to support the envisaged weight.
NaturAL-X is suitable for new build construction and for renovating existing structures. System can be installed on the following substrate:

- Existing concrete
- Existing brickwork
- Existing blockwork;
- Lightweight steel frame
- Newbuild blockwork
- Timber frame

The substrate wall to which the system is fixed must be structurally sound, designed and constructed in accordance with the requirements of the relevant National Building Regulations and Standards.

- Timber-frame walls must be designed and constructed in accordance with PD 6696-1 : 2019, BS EN 1995-1-1 : 2004 and BS EN 1995-1-2 : 2004 and their UK National Annexes,

with workmanship in accordance with BS 8000-5 : 1990, and preservative-treated in accordance with BS EN351-1 : 2023 and BS 8417 : 2011.

- Steel-frame walls must be structurally sound, designed and constructed in accordance with BS EN 1993-1-1 : 2022, BS EN 1993-1-2 : 2005 and BS EN 1993-1-3 : 2006 and their UK National Annexes.
- Masonry walls must be designed and constructed in accordance with the relevant recommendations of BS EN 1996-1-1 : 2022, BS EN 1996-1-2 : 2005, BS EN 1996-2 : 2006 and BS EN 1996-3 : 2023 and their UK National Annexes, and BS 8000-0 : 2014 and BS 8000-3 : 2020.
- Concrete walls must be designed and constructed in accordance with BS EN 1992-1-1 : 2023 and BS EN 1992-1-2 : 2023 and their UK National Annexes.

The substrate wall to which the system is fixed to must satisfy the requirements of the relevant National Building Regulations and Standards in regards to water-tightness, and heat and sound transmission.

The system transfers their self-weight and design wind actions through the supporting sub-frame to the substrate wall. The substrate wall and the supporting sub-frame must be capable of resisting the associated actions. Particular care is required around window and door openings to ensure that the structure is capable of sustaining the additional weight of the system. The maximum spacing between vertical and horizontal supporting rails must not exceed 600mm centres.

Setting Out

Ash & Lacy design team can assist in project design and specification.
For masonry substrates vertical support rails are normally mechanically fixed to the building substructure at 600mm maximum centres.
Middle rails are horizontally fixed to the vertical supports at 75mm increments, including a starter and top rail in their respective locations. Aluminium adjustable wall bracket adjustment range 45mm – 335mm
NaturAL-X brick slips are slotted firmly into place, guided by the pre-formed upper and lower retainers.
Avoid short lengths of horizontal support rails at external returns. Keep any cut lengths between full rail lengths if possible.

Movement

Existing Structures

Provision for thermal movement in the NaturAL-X system should be provided at 6m centres vertically and horizontally.
Leave a 10mm gap between horizontal rails, omit pointing mortar, place 20mm low density, compressible, closed cell polyethylene filler at a depth of 10mm and seal with a suitably coloured low modulus neutral cure silicone sealant (such as Adshead Ratcliffe Arbosil 1090 as the modulus is flexible enough to accommodate envisaged movement).
This does not cover structural movement considerations, which depends on the substrate.

New Build Structures

Where NaturAL-X is applied to new build masonry, vertical movement joint spacing for the masonry should be in accordance with BS EN 1996 and PD6697.
Vertical expansion joints to allow for horizontal movement should be provided through brick slips, mortar, brick rail and backing sections at a maximum of 6m centres in the brick slip cladding.
If structural movement joints are greater and/or often, these joints should be caried through the full wall thickness (including substrate and façade cladding system).
All these joints should be extended throughout the full height of the building including parapets etc.
Horizontal expansion joints, to allow for vertical movement, should be provided at a maximum of 6m centres considered with a floor and more frequently in timber-frame structures.
For structural containing timber -frame or steel-frame, reference should be made to the structural engineer's details for deflection at floor level and movement joints in the substructure.
Leave a 10mm gap between horizontal rails, omit pointing mortar, place 20mm low density, compressible, closed cell polyethylene filler at a depth of 10mm and seal with a suitably coloured low modulus neutral cure silicone sealant (such as Adshead Ratcliffe Arbosil 1090 as the modulus is flexible enough to accommodate envisaged movement).

Ventilation and drainage

This must be provided behind the system. the minimum cavity width between the back face of the steel backing sections and the substrate wall (or insulation if installed within the cavity) should be min 38mm, and a minimum ventilation area of 5000mm² per metre run must be provided at the building base point and at roof edge. Joint gaps between brick slips are filled in with pointing mortar. All ventilation openings around the periphery of the system greater then 10mm in height should be suitably protected with insect mesh to prevent the ingress of birds, vermin, and insects.

For retrofit installation, any existing external plumbing should be removed before installation, and alterations made to underground drainage, where appropriate, to accommodate repositioning on the finished face of the system.

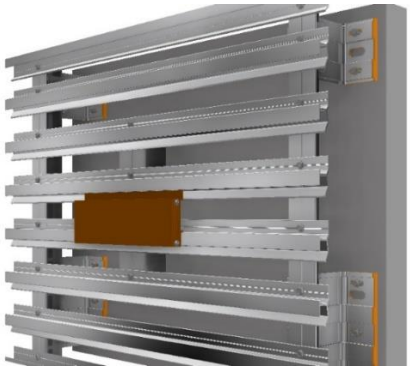
Load fixing to NaturAL-X façade

The method of external load fixing to NaturAL-X façades depends on weight and shape of the external load. There are few different scenarios:

1. Weight up to 15kg on maximum of 280mm cantilever; this type of weight should be installed on an aluminium extruded brick slip that is installed in front of the existing helping hand mullion, (below left image), or a short piece of L mullion fixed to the backs of at least two brick rails above and below aluminium brick slip (below right image) to stop brick rail rotation. Sealant must be used around the aluminium brick slip instead of mortar.
2. Weight greater then 15kg/or cantilever greater then 280mm – that scenario must be checked by static calculations. Based on calculation results the fallowing is recommended:

I. Weight that is not failing helping hand system – it would need to be installed by having a clearance hole in an aluminium brick slip and fixing that load directly to the helping hand mullion. Sealant must be used around aluminium brick slip instead of mortar.

II. Weight that makes helping hand system fail (greater than I.) – this type of external load must be installed directly to the substrate. full recommendations on this type of load should be on project-by-project basis.



Cut on Site

Also refer to section COSHH.
If brick slips require cutting down to shorter lengths it is recommended to wet cut using a water fed angle grinder or chop saw and wear a suitable face mask when cutting. The minimum Length of brick slip should not fall below 50mm.
Aluminium rails are likely to require cutting to size and can also be cut using and angle grinder or metal chop saw. When cutting aluminium elements, the cutting disk must be suitable for aluminium and not a standard slitting disk.
Wear suitable eye and hand protection when cutting.
Suitable ear defenders should be worn by everyone in the vicinity of mechanical cutting machines.

Pointing

The recommended mortars for pointing the NaturAL-X system lime based Parex Easipoint / Instarmac – Limepoint Plus / VPI Tradijoint / PRB.
Product code: Dependent upon specifier's choice of mortar colour
These mortars are a dry packed blend of lime, GGBS, selected silica sands and natural aggregates together with additives to provide water resistance, workability and colour. A minimum Class (iii) designation mortar can be used.
Bucket Handle joint profile is recommended, however for certain products a slightly recessed joint, no more than 3mm, may be more aesthetically suitable.
Follow the mixing guidelines supplied on the packaging and allow sufficient curing time.
Avoid mortar contamination on bare aluminium rails.

Cleaning

Information is contained within BS8221-1, which refers to general cleaning of building materials with a useful reference on brick masonry preparation, and BDA Note 2 on cleaning of brickwork.
Take care if considering acid-based cleaners as this may adversely affect any bare aluminium.

Health and Safety

The Health and Safety at Work Act, Consumer Protection Act and other legislation require us to provide relevant information regarding our products in respect of handling, processing, storage, transportation or disposal without risk to health.

Handling and Storage

The use of personal protective equipment (PPE) is strongly recommended whenever practicable, to minimise the risks associated with falling objects and sharp edges.
NaturAL-X components may be grouped together into packs. Care should be taken in their handling. Equipment used for lifting packs must be adequate for the weight involved. The weight of the pack varies according to the content. These packs are delivered on wooden pallets and are contained by plastic shrink-wrap.
All personnel involved in the handling of packs should be made aware that shrink-wrap and banding straps contain the products and tilting of the pack could allow the products to fall:
AVOID abnormal shocks to the packs
AVOID sliding one pack against any face of another pack
NOTE packaging can deteriorate over a period of time.
Packs should be placed singly on dry, level ground.
Any pallets supplied by the client to store or transport packs must be very close in size to the pack dimensions and must be of adequate strength to support the weight of product placed on it.

On Site Handling

To lift pallets by a mobile fork truck, only use the holes in the pallets provided. "Side grabs" should not be used to lift packs from the lorry. Do not move opened packs of stacked units around site. Ensure units are laid flat.
Where packs are lifted more than 1 metre above ground level, a safety cage of adequate dimensions around the pack should be used. All personnel must stand well clear of packs when they are being lifted or moved.
If it is considered necessary to store a pack above ground level, it should only be placed on a suitably designed staging with guard rails of appropriate height to prevent any components falling to lower working areas.

Disposal of Packaging

Redundant packing materials should be gathered together daily and placed in waste disposal skips for removal to an approved tip. The burning of any packaging materials is not normally permitted on sites; some plastic materials may give off harmful fumes. If permission is granted for the burning of wooden pallets great care must be exercised to ensure that environmental pollution controls are not contravened.

COSHH

NaturAL-X brick slips and carrier rails may require cutting on site. If powered tools are used to cut this product, amounts of dust may be produced.

Depending on the environment and the method of cutting, it is possible that some respirable silica may be generated from the brick slips. The main effect in humans of the inhalation of respirable silica dust is silicosis. There is sufficient information to conclude that the relative lung cancer risk is increased in persons with silicosis. Therefor preventing the onset of silicosis will also reduce the risk of cancer. Since a clear threshold for silicosis development cannot be identified, any reduction of exposure will reduce the risk of silicosis.
Under the COSHH Regulations, the Workplace Exposure Limit (WEL) for respirable silica is 0.1mg/m³ (from October 2006). The only reliable way to ascertain the levels of individual exposure during cutting is to carry out detailed personal monitoring.
Flammable dust may be generated from cutting aluminium. The use of water fed cutting equipment is recommended to minimise dust generated by cutting operations
Dust may cause skin irritation, wear suitable gloves and barrier cream to avoid abrasion.
Wear eye protection and ear defenders when mechanically cutting materials.
NaturAL-X components are manufactured from naturally inert materials and are not prone to off-gassing of volatile materials. Clay products are non-toxic.

Manual Handling

Repetitive handling of any product including brick slips can give rise to upper limb disorders such as muscular strains and sprains. Specialist help should be sought for anyone involved in this type of work.

IT IS THE CUSTOMERS RESPONSIBILITY TO OBTAIN TECHNICAL DATA ON ALL MATERIALS TO BE USED IN CONJUNCTION WITH NATURAL-X. NO LIABILITY CAN BE ACCEPTED IN RESPECT OF OTHER MATERIALS USED.

Damage - Repairs

Repairs - in the unlikely event of damaged or broken slips, they can be easily replaced by carefully removing mortar pointing around the slip lifting it upwards to free the bottom from the support rail and sliding it out base first.
Damage to the horizontal supporting rails may require removal of a section of slips to remediate. Unbroken slips may be able to be re-used.

Maintenance

The NaturAL-X system requires little or no maintenance. Check mortar pointing at 5year intervals as part of a maintenance review.

Recycling

Despite the potential longevity of fired clay products, they are sometimes demolished well before the end of their useful life.
The following are possible uses for recycled clay building materials:

- Reclaim and re-use.
- Filling and stabilising material for infrastructure works.
- Aggregates for in-situ and precast concrete and mortars.

The majority of the aluminium used in carrier and support rail extrusions is from recycled sources and can be recycled by a licenced company.

'Adaptable building' is used to describe a structure that has the ability to be modified or extended at minimum cost to suit the changing needs of the people using the structure. Thoughtful design can provide the flexibility for these needs to be met without requiring expensive and energy intensive renovations. The ease of assembly and disassembly of the NaturAL-X system components means a structure can be re-shaped or extended incorporating the re-use of the NaturAL-X system.

NaturAL-X Warranty Details

Ash & Lacy products are designed and constructed to ensure complete peace of mind for customers.
That's why every item comes with the added reassurance of our very own IntegrAL 25year warranty.
After the warranty time, the building needs to be inspected regularly to make sure the components are in good condition.

What does the IntegrAL Warranty Cover?

IntegrAL Limited Warranty covers defects in materials used within this system, manufactured or supplied by Ash & Lacy or an approved distributer.

Design life: NaturAL-X brick slip system, when installed currently, has a service life in excess of 35years.
Ash & Lacy guarantee the durability of the brick slip components same as the durability of the carrier rails and associated components for a period of 35years PROVIDED THAT the components are properly and correctly incorporated and:

- Are incorporated into the building structure in accordance with best construction practice and all published recommendations, including Ash & Lacy specification, handling and laying guidelines published at the time;
- are handled using the best available techniques in the course of delivery and construction, and are incorporated into the building structure without having received impact, abraded or in any way having their surface or integrity damaged by whatever cause;
- subsequent to being incorporated into the building structure, suffer no damaged of whatever nature caused by the effect of impact of extraneous objects or materials;
- the building does not undergo modification, which may affect the performance of the components;
- the building has been properly and fully maintained and/or repaired when and if necessary.

THIS WARRANTY excludes any liability on the part of Ash & Lacy for any impairment to durability, which may be caused by faulty design or maintenance of the building, including the effect that such may have on the components. It also excludes liability from any impairment

caused directly or indirectly to the components by any pointing to the components carried out at any time during the building's life, and not adhering to the relevant Code of Practice for masonry recommendations, especially with regard to mortar strength and workmanship, and excludes any direct and/or consequential loss howsoever arising.

For further information on warranty details and period for these components please contact Ash & Lacy and include project details.

Summary of Third-Party Testing

Certification

NaturAL-X brick slip system with AxiAL support system has been assessed by the BBA (British Board of Agrément) for the certificate (20/5773). If installed, used and maintained in accordance with this certificate, is covering requirements of NHBC Standard, Part 6 Superstructure (excluding roofs), Chapter 6.9 *Curtain walling and cladding.*

The NaturAL-X system was independently tested by Vinci Technology Centre in Bedfordshire For wind resistance, water tightness and impact resistance.

Lucideon tested the weatherability of the system.

Materials

Fired clay brick slips supported by aluminium rails affixed to aluminium/stainless steel support system.

Test Programme

The test programme was carried out with results as follows:

Wind Resistance – serviceability and safety

CWCT testing achieved ±2400 Pascals serviceability, ±3600 Pascals safety. PASS

Water Tightness –dynamic pressure

CWCT testing achieved 600 Pascals - PASS

Impact Resistance

Soft and hard body impact tests - CWCT testing achieved Class 1 serviceability, negligible risk safety. PASS.

Freeze/Thaw Resistance

Freeze Thaw testing in accordance with ETAG 017
Additional freeze/thaw resistance test is carried out in accordance with the European method DD CEN/TS EN772-22, which involves subjecting a panel of brickwork to repeated free thaw cycles designed to simulate naturally occurring conditions. From the results, the bricks were classified as F2 i.e. suitable for use in conditions of severe exposure, in accordance with BS EN771-1, Specification for Clay Masonry Units

Reaction to Fire

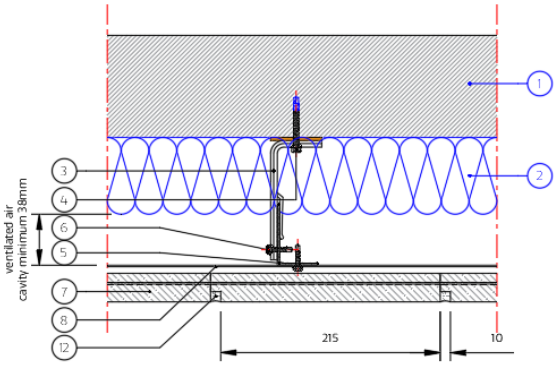
The external surface of the cladding has a reaction to fire classification (1) of A1 in accordance with BE EN 13501-1 :2018. This related to the full thickness and mounting methods.
Report reference from Warringtonfire WF409120. Copy available from Ash & Lacy.
The reverse side of the cladding (facing into the cavity) has a reaction to fire classification of A1 to BS EN 13501-1 : 2018.
The fixings and support system are classified as 'non-combustible' or 'limited combustibility' in accordance with the relevant national regulatory guidance.
Designers should refer to relevant National Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall wall construction (from example, thermal insulation).
Wall brackets with the P66 nylon thermal break isolator pads are used to reduce the risk of cold bridging across the bracket/wall interface. They are largely protected by the cladding panels and, as they are considered present in relatively small quantities, are unlikely to significantly affect the overall fire performance of the cladding.
NaturAL-X brick slip system with AxiAL support system is classified as 'non-combustible' and is not subject to any restriction on building height or proximity to boundaries.

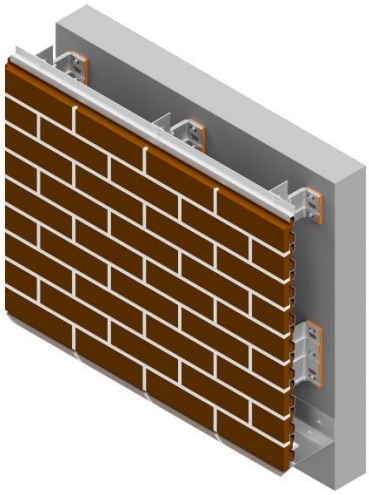
Additional Testing

Fire cavity barriers are not included within the NaturAL-X system and should be specified and designed by a qualified engineer.
The use of mineral wool insulation is recommended in conjunction with NaturAL-X.

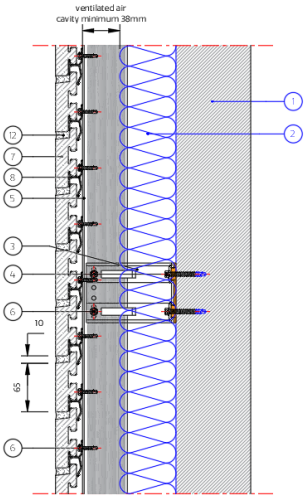
NaturAL-X Typical Details

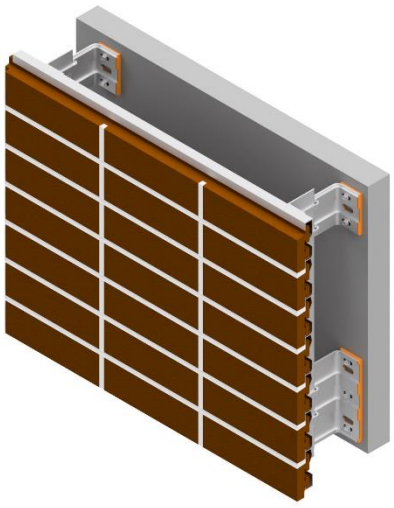
Vertical Joint Detail	TD.NX.H1.G-01.00
Horizontal Joint Detail	TD.NX.H1.G-02.00
Internal Corner Detail	TD.NX.H1.G-03.00
External Corner Detail	TD.NX.H1.G-04.01
Window Head Detail (with metal flashing finish)	TD.NX.H1.G-05.00
Window Head Detail (with brick slip finish)	TD.NX.H1.G-05.02
Window Jamb Detail (with metal flashing)	TD.NX.H1.G-06.00
Window Jamb Detail (with brick slip finish	TD.NX.H1.G-06.01
Window Cill Detail	TD.NX.H1.G-07.00
Base Detail (brick slips above DPC)	TD.NX.H1.G-08.00
Parapet Detail	TD.NX.H1.G-09.00
Vertical Movement Joint Detail	TD.NX.H1.G-10.00
Horizontal Movement Joint Detail	TD.NX.H1.G-11.00
Soffit Detail	TD.NX.H1.G-12.00
Horizontal Joint With One Course of Standing Soldier	TD.NX.H1.G-19.00



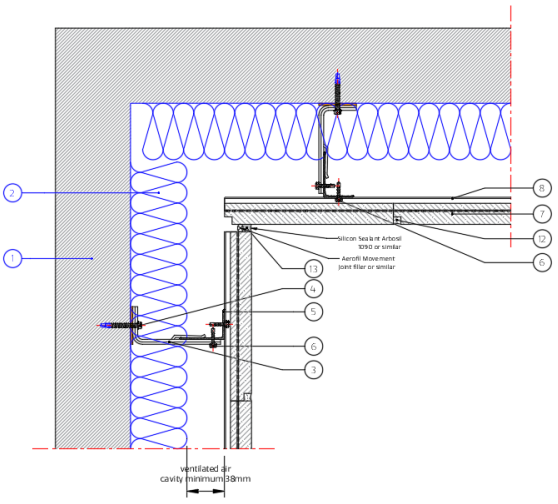


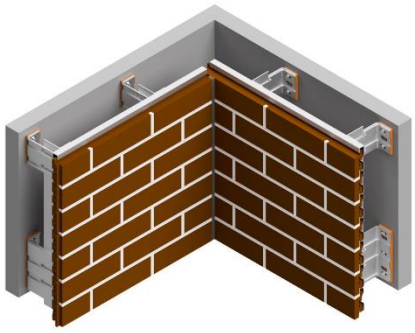
Vertical Joint Detail – TD.NX.H1.G-01.00



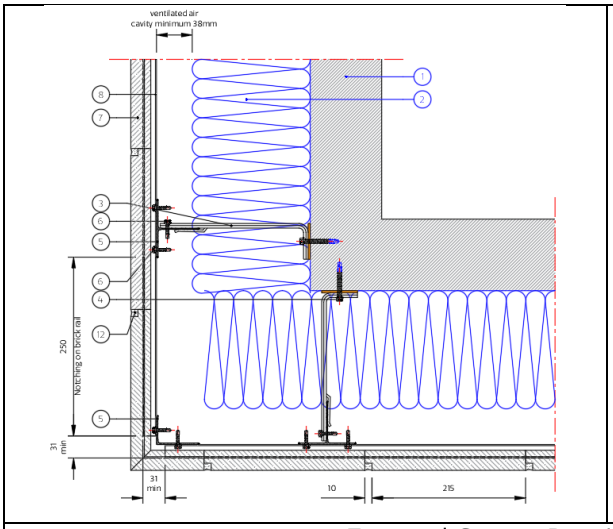


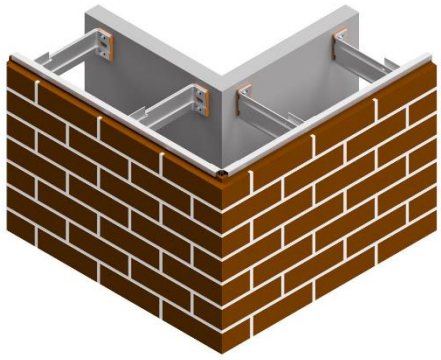
Horizontal Joint Detail – TD.NX.H1.G-02.00



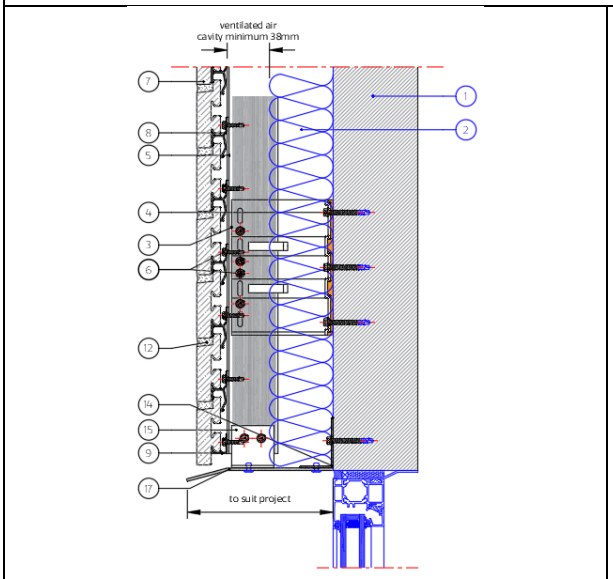


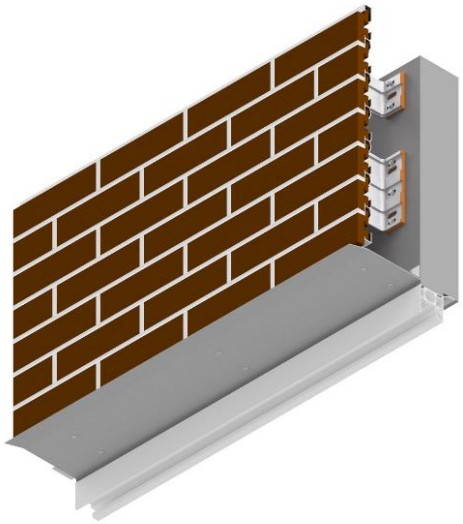
Internal Corner Detail – TD.NX.H1.G-03.00



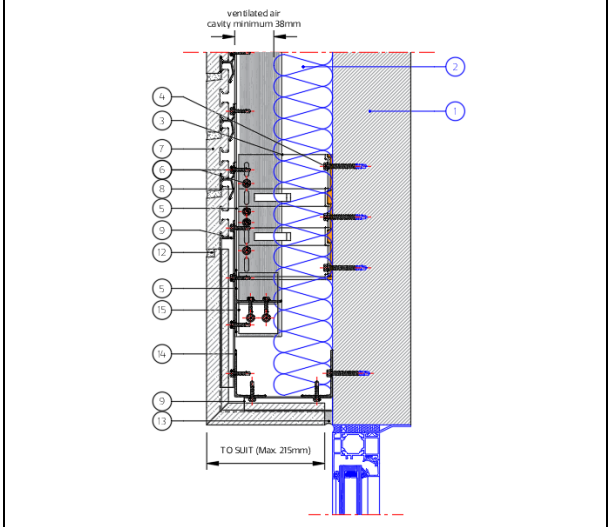


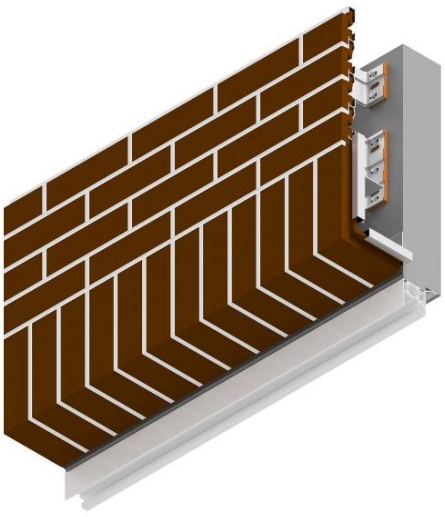
External Corner Detail – TD.NX.H1.G-04.01



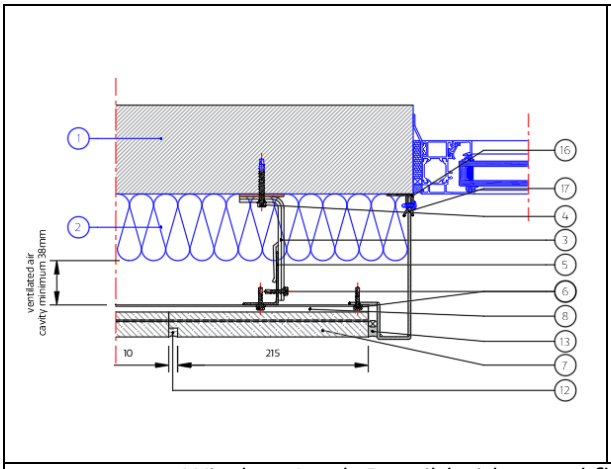


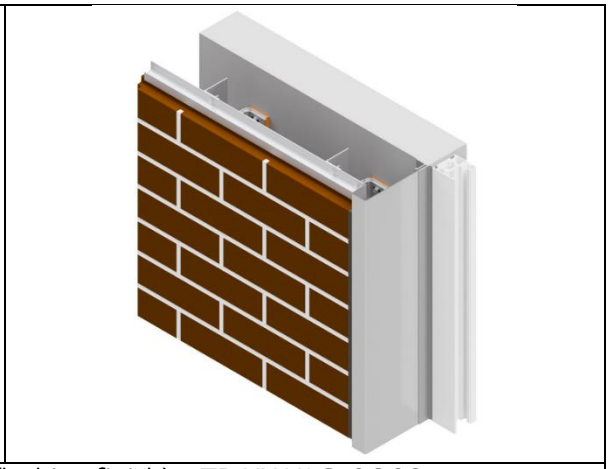
Window Head Detail (with metal flashing finish) – TD.NX.H1.G-05.00



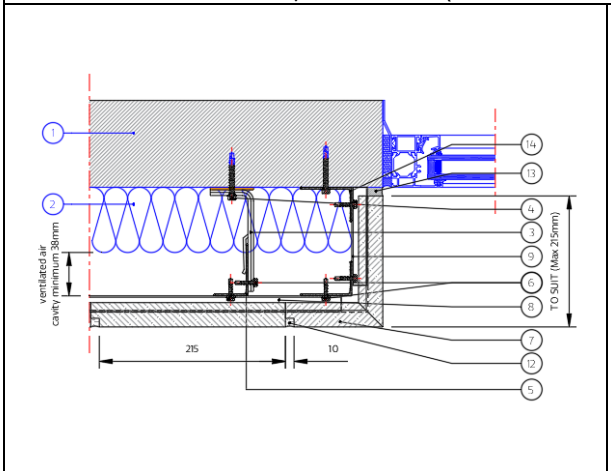


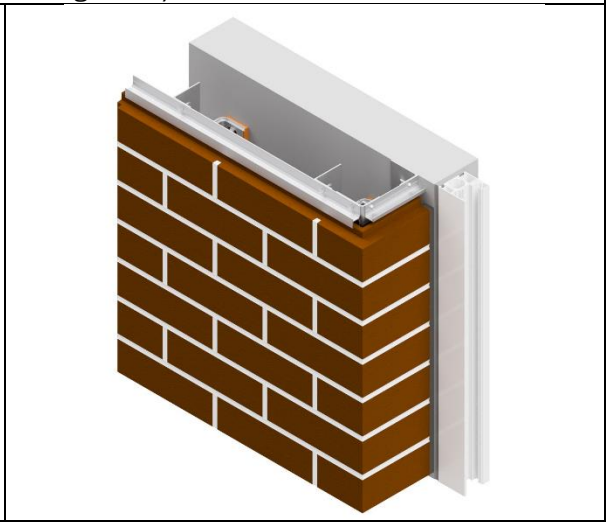
Window Head Detail (with brick slip finish) – TD.NX.H1.G-05.02



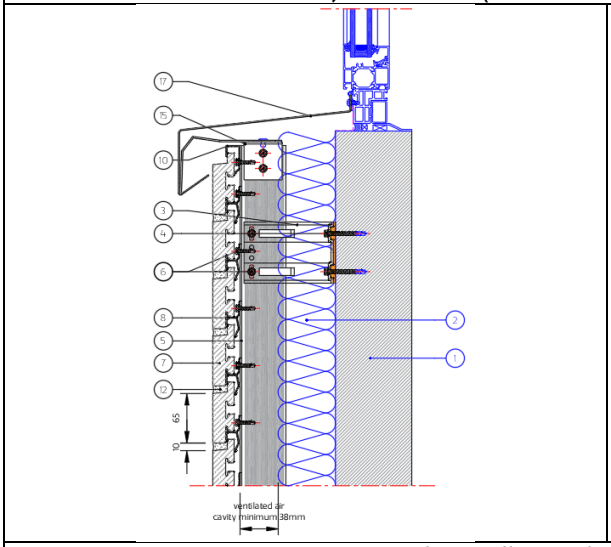


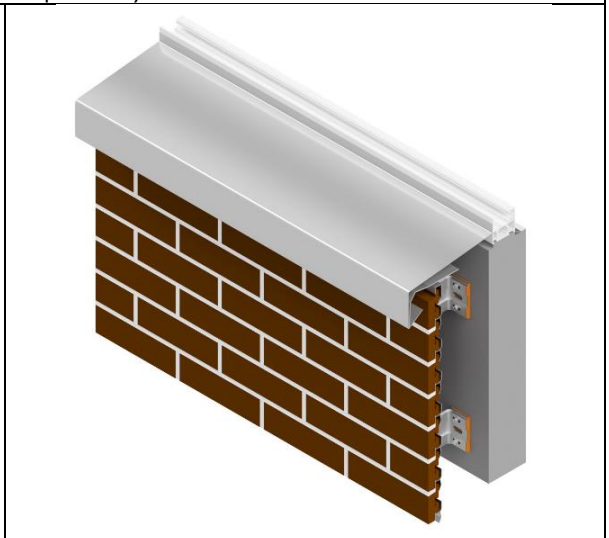
Window Jamb Detail (with metal flashing finish) – TD.NX.H1.G-06.00



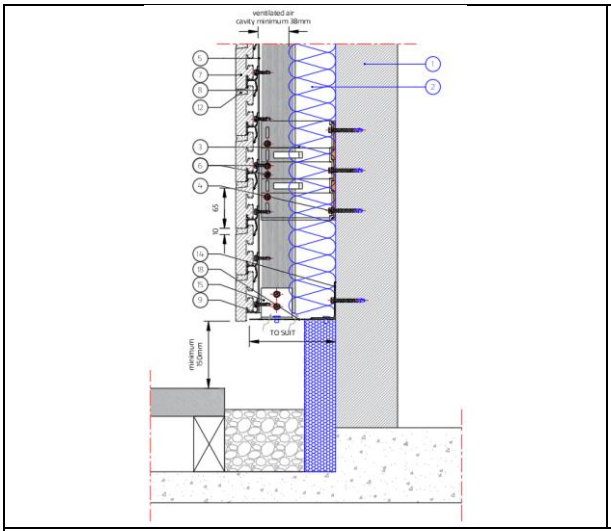


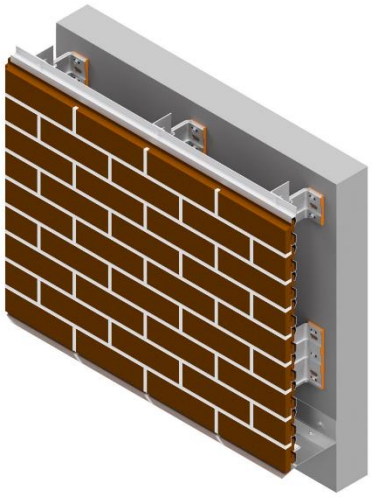
Window Jamb Detail (with brick slip finish) – TD.NX.H1.G-06.01



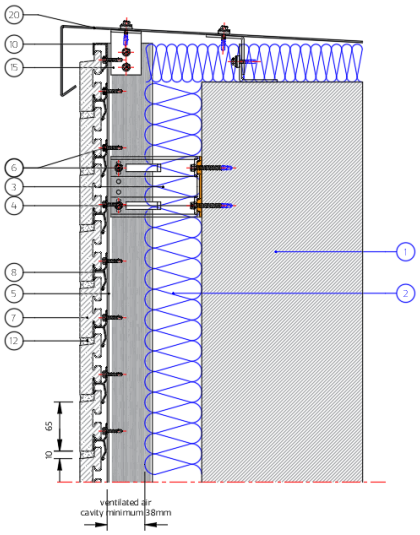


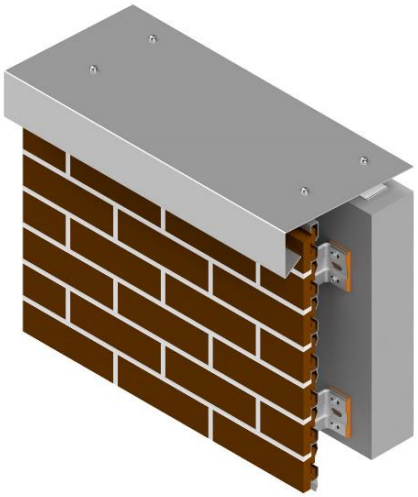
Window Cill Detail – TD.NX.H1.G-07.00



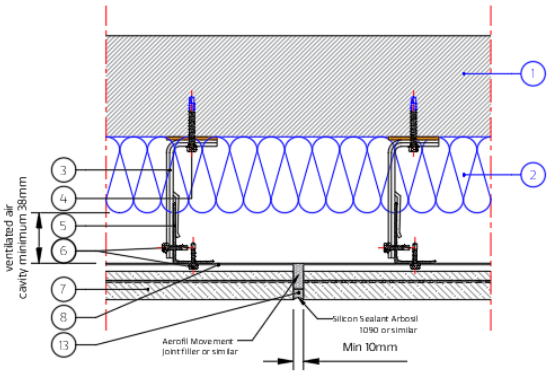


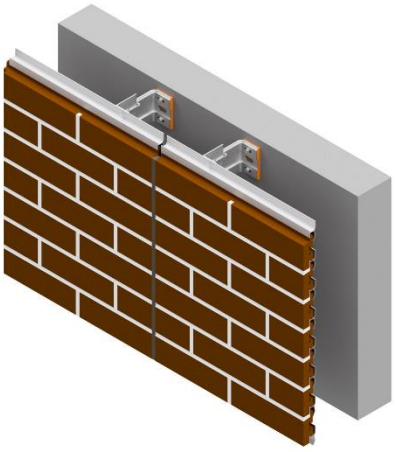
Based Detail – TD.NX.H1.G-08.00



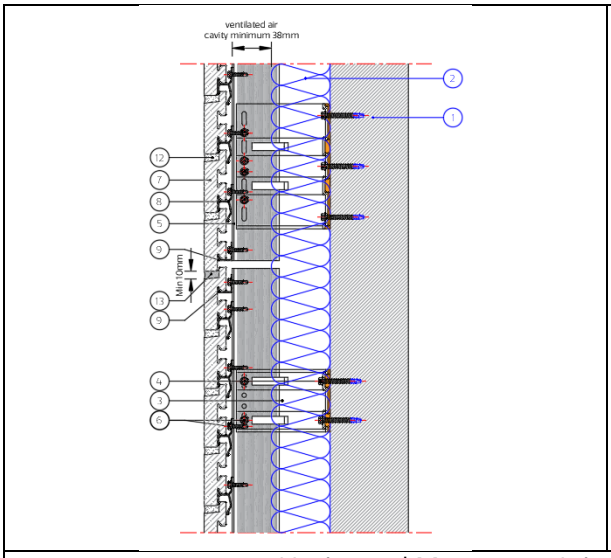


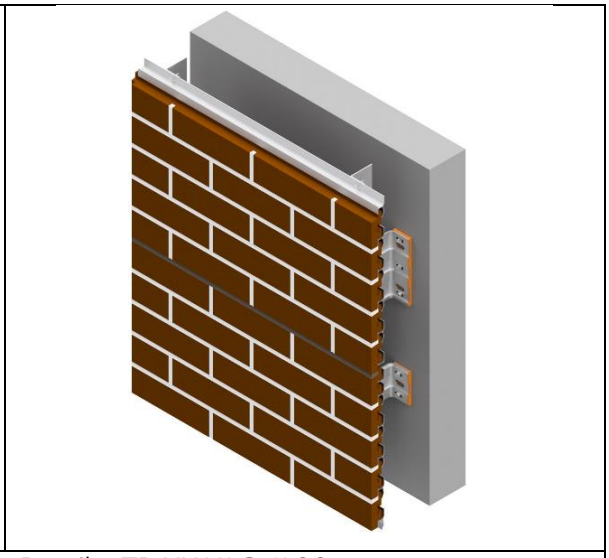
Parapet Detail – TD.NX.H1.G-09.00



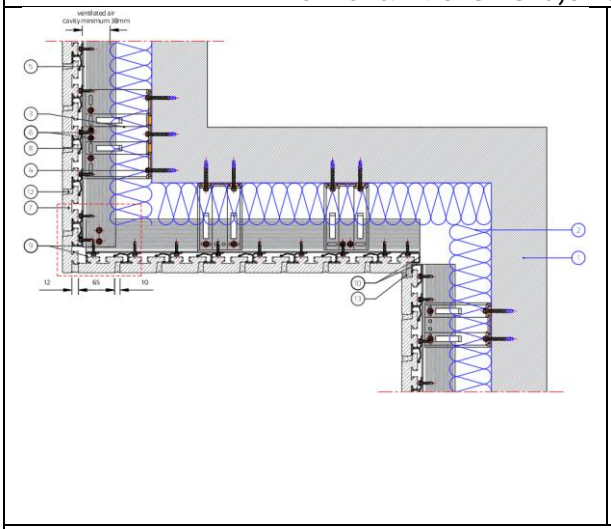


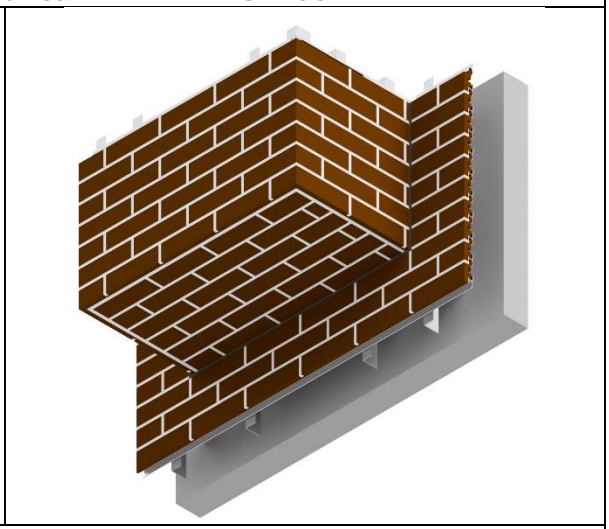
Vertical Movement Joint Detail – TD.NX.H1.G-10.00



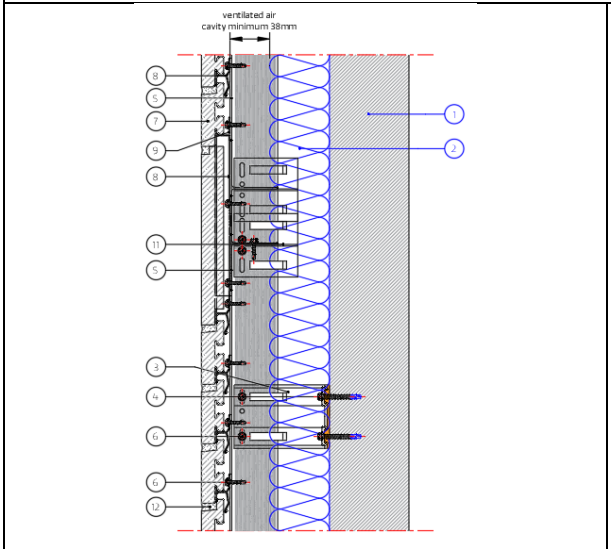


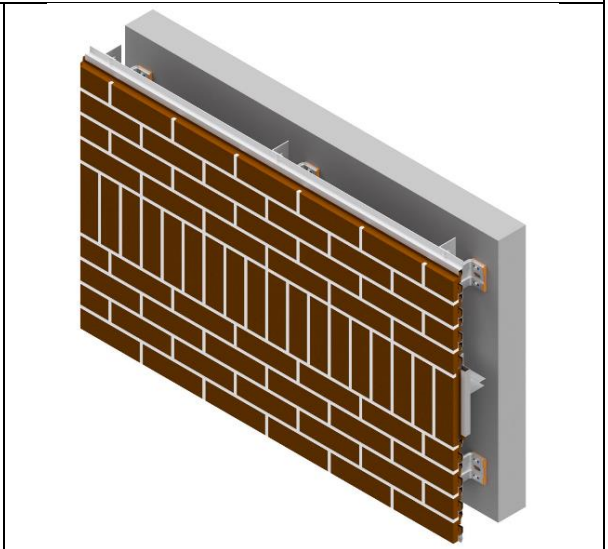
Horizontal Movement Joint Detail – TD.NX.H1.G-11.00





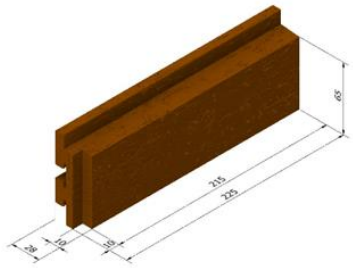
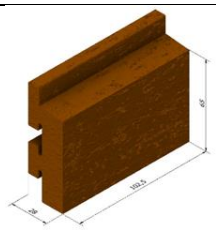
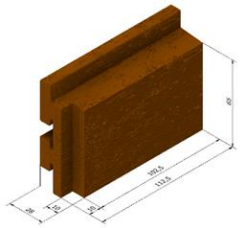
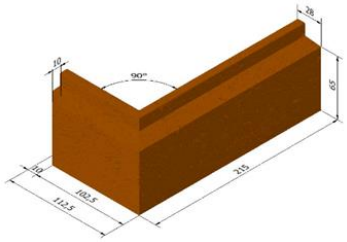
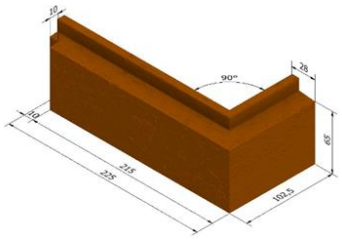
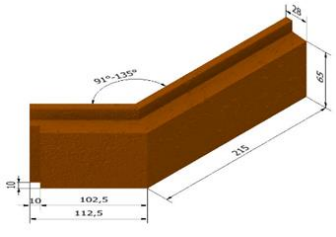
Soffit Details – TD.NX.H1.G-12.00

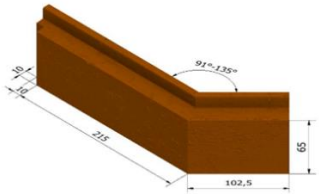
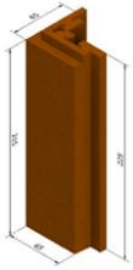
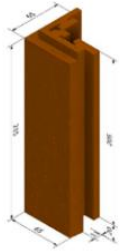
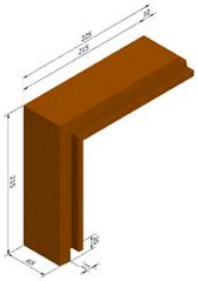
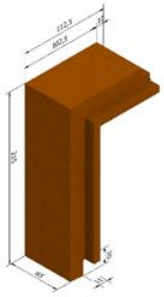


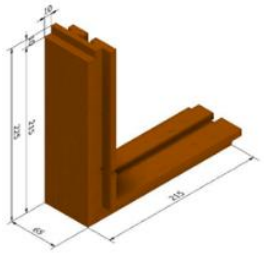
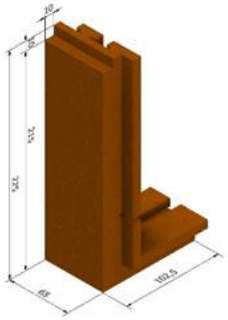
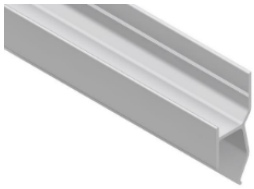
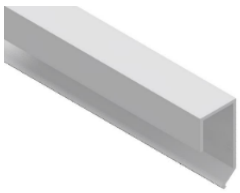


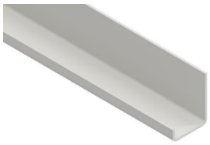
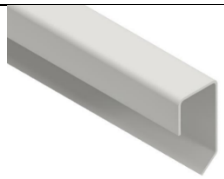
Horizontal Joint With One Course Of Standing Soldier – TD.NX.H1.G-19.00

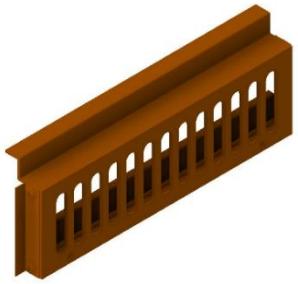
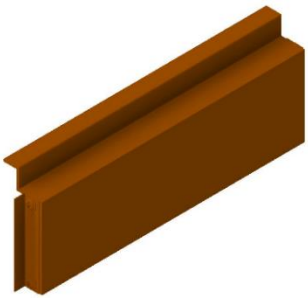
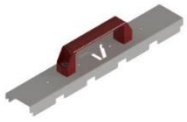
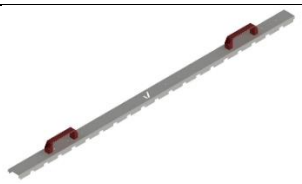
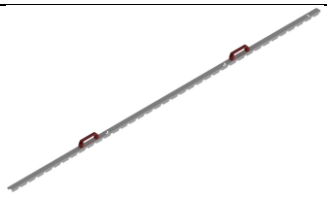
NaturAL-X System Component List

Description	Code No.	Image
Standard brick slip (215 x 65 x 28mm)	BR-NAT-XXXX-SM-SB	
Half brick RH (102.5 x 65 x 28mm)	BR-NAT-XXXX-SM-HB-RH	
Half brick LH (102.5 x 65 x 28mm)	BR-NAT-XXXX-SM-HB-LH	
Bonded corner return. 90° angle. Left-handed	BR-NAT-XXXX-SM-RET-LH	
Bonded corner return. 90° angle. Right-handed	BR-NAT-XXXX-SM-RET-RH	
Bonded corner. Non 90° angle. Left-handed	BR-NAT-XXXX-SM-RET-LH-DEG	

Bonded corner. Non 90° angle. Right-handed	BR-NAT-XXXX-SM-RET-RH-DEG	
Soldier Course Corner Brick Slip	BR-NAT-XXXX-SM-SC-COR	
Solider Course Corner Start Brick Slip	BR-NAT-XXXX-SM-SC-COR-ST	
Soldier Course Cill Return LH	BR-NAT-XXXX-SM-SC-C-RET-LH	
Soldier Course Cill Return RH	BR-NAT-XXXX-SC-C-RET-RH	
Soldier Course Start Brick Slip	BR-NAT-XXXX-SC-ST	

Soldier Course Head Return LH	BR-NAT-XXXX-SM-SC-HR-LH	
Soldier Course Head Return RH	BR-NAT-XXXX-SM-SC-HR-RH	
NaturAL-X Brick Starter Rail x 3000mm (Mill Finish)	BR-NAT-RAIL-A-STARTER	
NaturAL-X Brick Rail x 3000mm (Mill Finish)	BR-NAT-RAIL-X	
NaturAL-X Brick Top Rail x 3000mm (Mill Finish)	BR-NAT-RAIL-A-TOP	
Pre-notched NaturAL-X brick rail to suit left-handed corner brick slips	BR-NAT-RAIL-A-NOTCH-LH	

Pre-notched NaturAL-X brick rail to suit right-handed corner brick slips	BR-NAT-RAIL-A-NOTCH-RH	
NaturAL-X Brick Starter Rail x 3000mm Stainless Steel (for build below DPC)	BR-RAIL-SS-STARTER	
NaturAL-X Brick Top Rail x 3000mm Stainless Stee (for build below DPC)	BR-RAIL-SS-TOP	
Fixing for horizontal carrier rails to vertical mullions	SS-LS22	
Fixing for vertical mullion to helping hand bracket	SS-LS22	
Fixing helping hand brackets to Top Hat	BM-LS35	
Fixing helping hand brackets to SFS>CP Board substrate	BM-LSHF50	
Fixing helping hand brackets to timber substrate	BM-LS75	
Fixing helping hand brackets to concrete substrate	STR-FF1-N-10K080-A4	

Perforated Aluminium 'Brick' With PPC Coating (single side) For Ventilation	BR-ALUM-VENTED-PPC	
Solid Aluminium 'Brick' With PPC Coating (single side) For Fixings External Load	BR-ALUM-SOLID-PPC	
Brick rail installation gauge tool (373mm length)	BR-TOOL-SML	
Brick rail installation gauge tool (1495mm length)	BR-TOOL-LRG	
Brick rail installation gauge tool (1495-2980mm length)	BR-TOOL-XL	

For any questions in regard to NaturAL-X Brick Cladding System, please contact your local Ash & Lacy representative:

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https://www.ashandlacy.com/products/facade/natural-x/

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