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**STO DRAWING REGISTER**

**STOPOREN FACADE SYSTEM DRAWING REGISTER**

PP 003  2018

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- StoPoren Facade System Internal Corner Brick Veneer/Sto Poren - Opt 1 PP 811
- StoPoren Facade System Internal Corner Brick Veneer/Sto Poren - Opt 2 PP 812
- StoPoren Facade System Vertical Junction Brick Veneer/Sto Poren PP 813
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Continuation Dissimilar Material

**StoTherm Panel EIFS Series 860**
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- StoPoren Facade System Int.Cnr StoTherm/Sto Poren PP 861
- StoPoren Facade System Vertical Joint 50mm StoTherm/Sto Poren PP 862
- StoPoren Facade System Vertical Joint 80mm StoTherm/Sto Poren PP 863
- StoPoren Facade System Inter-Storey Junction StoTherm/Sto Poren PP 864
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- StoPoren Facade System Timber Door Joinery - Timber Floor/Threshold Detail PP 873
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STO DRAWING REGISTER

Drawing Description

StoPoren Facade (40mm Cavity) Series 1000

StoPoren Facade System Introduction (40mm Cavity) PP 1000
StoPoren Facade System Information (40mm Cavity) PP 1001
StoPoren Facade System Cavity Spacer Setout (600 Ctrs) PP 1002
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StoPoren Facade System Raking Soffit/Wall Junction PP 1025
StoPoren Facade System Flat Soffit/Wall Junction PP 1026

MOULDINGS & SHAPES

Refer to - www.accumen.co.nz

Lightweight exterior decorative moldings and shapes, including columns, architraves, cornices, window sills, fence caps, quoins that can be finished in Stolit K or MP sponge coloured finishing render.

Note: Decorative mouldings require min. 10° slope to top surface and a drip edge.

THESE DETAILS ARE ISSUED AS A GUIDE USING STANDARD BUILDING PRACTICES BASED ON THE NZBC. VARIOUS BUILDING COMPONENTS ARE DETAILED AND IT IS THE RESPONSIBILITY OF EACH TRADE INVOLVED TO ENSURE THAT THEIR PARTICULAR ELEMENTS ARE INSTALLED CORRECTLY. NOTE: REFER TO INDIVIDUAL MANUFACTURERS FOR CURRENT DETAILS AND SPECIFICATIONS - SEE www.sto.co.nz FOR CURRENT DETAILS.
THE STOPOREN FACADE SYSTEM HAS BEEN APPRAISED AS AN EXTERNAL WALL CLADDING SYSTEM FOR BUILDINGS WITHIN THE FOLLOWING SCOPE:

- THE SCOPE LIMITATIONS OF NZBC ACCEPTABLE SOLUTION E2/AS1, PARAGRAPH 1.1; AND,
- CONSTRUCTED WITH TIMBER FRAMING COMPLYING WITH THE NZBC; AND,
- WITH A RISK SCORE OF 0-20, CALCULATED IN ACCORDANCE WITH NZBC ACCEPTABLE SOLUTION E2/AS1, TABLE 2; AND,
- SITUATED IN NZS 3604 WIND ZONES UP TO, AND INCLUDING ‘EXTRA HIGH’.

THE STOPOREN FACADE SYSTEM HAS ALSO BEEN APPRAISED FOR WEATHERTIGHTNESS AND STRUCTURAL WIND LOADING WHEN USED AS AN EXTERNAL WALL CLADDING SYSTEM FOR BUILDINGS WITHIN THE FOLLOWING SCOPE:

- THE SCOPE LIMITATIONS OF NZBC ACCEPTABLE SOLUTION E2/AS1, PARAGRAPH 1.1; AND,
- CONSTRUCTED WITH TIMBER OR STEEL FRAMING COMPLYING WITH THE NZBC; AND,
- SITUATED IN SPECIFIC DESIGN WIND PressURES UP TO A MAXIMUM DESIGN DIFFERENTIAL ULTIMATE LIMIT STATE (ULS) OF 2.5 KPA.

INCORPORATING:

- S-PROTECT WS 205 SEALER TO SEAL HEBEL® PANELS
- 1. STOPOREN RENDER 25kg BAG
- 2. STOARMAT MESHED REINFORCEMENT COAT
- 3. STOLIT K : 1.0mm, 1.5mm, 2.0mm & 3.0mm COLOURED FINISHING RENDER
  MP : MP COLOURED FINE SPONGE FINISHING RENDER
  MP NATURAL COLOURED FINE SAND FINISHING RENDER
  MILANO SMOOTH COLOURED FINISHING RENDER
- 4. STOCOLOR : STOCOLOR MAXICRYL MATT FACADE PAINT 15lt PAIL
  : STOCOLOR LASTIC SATIN FACADE PAINT 15lt PAIL
  : STOCOLOR LOTUSAN MINERAL RESIN PAINT 15lt PAIL

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- THE SCOPE LIMITATIONS OF NZBC ACCEPTABLE SOLUTION E2/AS1, PARAGRAPH 1.1; AND,
- CONSTRUCTED WITH TIMBER OR STEEL FRAMING COMPLYING WITH THE NZBC; AND,
- SITUATED IN SPECIFIC DESIGN WIND PRESSURES UP TO A MAXIMUM DESIGN DIFFERENTIAL ULTIMATE LIMIT STATE (ULS) OF 2.5 KPA.

INCORPORATING:
- S-PROTECT WS 205 SEALER TO SEAL HEBEL® PANELS
  1. STOPOREN RENDER 25kg BAG
  2. STOPLEX W SEALER 10lt CONTAINER
  3. STOLIT K : 1.0mm, 1.5mm, 2.0mm & 3.0mm COLOURED FINISHING RENDER 25kg PAIL
  4. STOCOLOR : STOCOLOR MAXICRYL MATT FACADE PAINT 15lt PAIL
     : STOCOLOR LASTIC SATIN FACADE PAINT 15lt PAIL
     : STOCOLOR LOTUSAN MINERAL RESIN PAINT 15lt PAIL

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STOPOREN PANEL
AUTOCLAVED AERATED CONCRETE
DENSITY 600kg/m³
THERMAL RESISTANCE RV 0.30
ON CAVITY CONSTRUCTION
STOPOREN PANEL DIMENSIONS
2200 x 600 x 50mm
FREIGHT
20 PANELS PER DOUBLE PALLET
1.3m³ PER PALLET + PALLET
AREA 1.32sqm EACH
WEIGHT 42kg EACH
POREN 100mm FIXINGS
COUNTERSUNK MAX. 12mm
MAX 300mm FIXING CENTRES
FIXINGS MINIMUM 40mm FROM
THE HORIZONTAL EDGE

STO CAVITY BATTEN
VH POLYSTYRENE
1200 x 50 x 20mm
250 PER PACKET

STEEL REINFORCING

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STOPOREN PANEL INSTALLATION

1. LEAVE PANEL IN PLASTIC WRAP AND COVER TO KEEP DRY BEFORE USING.
2. READ SPECIFICATIONS AND CHECK DRAWINGS, DETAILS, FRAMING, UNDERLAY, FLASHING TAPES, AND BLOCKING IS SATISFACTORY.
3. INSTALL STO PVC FOOT TRAY AND JOINERY FLASHINGS AS PER STO DETAILS (BUILDER TO SUPPLY ALUMINUM HEAD FLASHINGS).
4. CHECK PANEL LAYOUT AND INSTALL PANEL HORIZONTALLY STARTING FROM FOUNDATION.
5. STAGGER VERTICAL PANEL JOINTS GENERALLY OFF STUDS IN STRETCHER BOND PATTERN. PANELS SHOULD BRIDGE TWO (2) STUDS TO ENSURE THEY ARE SECURELY FIXED.
6. GLUE OR MORTAR ALL VERTICAL AND HORIZONTAL JOINTS AND SECURE PANELS WITH POREN FIXINGS AS PER STO DETAILS.
7. STAGGER EXTERNAL CORNERS PANELS AND BUTT OR STAGGER INTERNAL CORNERS.
8. MEASURE VERTICAL DISTANCES AND CUT FROM LAST TWO ROWS OF PANEL TO AVOID NARROW WIDTHS.
9. PRIME EXPOSED REINFORCING ON CUT PANEL AND BUTT TO ADJACENT PANEL WHERE POSSIBLE.
10. SEAL PANELS WITH S-PROTECT WS 205 AS WORK PROCEEDS TO KEEP PANELS DRY.

SAFE WORKING PRACTICE

1. HAVE SUFFICIENT PEOPLE TO LIFT OR POSITION PANEL ON SITE (MINIMUM TWO MAN LIFT).
2. WEAR PROTECTIVE CLOTHING, EYE AND EAR PROTECTION AND DUST MASK OR RESPIRATOR WHEN CUTTING OR SANDING.
3. USE A CIRCULAR SAW FITTED WITH A DIAMOND BLADE AND HEPA VACUUM WHEN CUTTING PANEL.
4. CONTAIN CUTTING AREA TO MINIMIZE DUST AND WARN OTHER IN IMMEDIATE VICINITY- HEPA VACUUM UP RESIDUE.
5. PROVIDE SUITABLE ACCESS PLATFORMS, EQUIPMENT AND TOOLS TO CARRY OUT THE WORK.
6. MAINTAIN A HEALTH AND SAFETY POLICY AND PRACTICES IN ACCORDANCE WITH THE LEGISLATION.

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NOTE: 400mm FRAMING
FIXINGS AT 300mm CENTRES GENERALLY ON STUDS 150mm
FROM PANEL EDGE AND 400mm CTRS ALONG BOTTOM PLATE
ON FRAMING @ 400mm CTRS max.
REFER TO FOUNDATION DETAILS FOR SPECIFIC FIXING LAYOUT

STO CAVITY BATTENS
WALL UNDERLAY MEETING REQUIREMENTS OF E2/AS1

STO ADJUSTABLE FOOT TRAY
MIN. 50mm PAST BOTTOM PLATE
OR SUBFRAME. VENTILATION MIN
1000sq mm PER LINEAL METRE

STOPOREN FACADE SYSTEM
CAVITY BATTEN SETOUT (400ctrs) - ISOMETRIC

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**STEEL FRAME CONSTRUCTION** MUST BE SPECIFIC DESIGN MEETING REQUIREMENTS OF NZBC.

FOR STEEL FRAMED BUILDINGS SITUATED IN NZS 3604 WIND ZONES UP TO VERY HIGH STUDS ARE AT 600mm MAX.CTRS. FOR ALL OTHER DWELLINGS STUDS ARE AT 400mm MAX.CTRS, DWANGS ARE REQUIRED AT 800mm CTRS

PROVIDE THERMAL BREAK TO ALL STEEL MEMBERS OR BRANZ APPRAISED PROPRIETARY RIGID AIR BARRIER/THERMAL BREAK

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**STOPOREN RENDER SYSTEM**
- S-PROTECT WS 205 SEALER
- POREN RENDER MESH COAT
- STOPLYX W SEALER
- STOLIT K COLOURED FINISHING RENDER
- STOCOLOR PAINT

---

**STEEL STUD**

EXTRA CAVITY BATTENS OR STRAPPING TAPE BETWEEN 600mm CTR FRAMING FOR FLEXIBLE UNDERLAY TO STOP INSULATION ENCROACHING INTO CAVITY WALL UNDERLAY MEETING REQUIREMENTS OF E2/AS1

10mm THICK THERMAL BREAK BATTENS ON STUDS & DWANGS - UNDER WALL UNDERLAY MIN. R VALUE 0.3 THERMAL BREAK TO ALL STEEL FRAMING

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**STOPOREN FACADE SYSTEM**

CAVITY BATTEN SETOUT STEEL FRAME/THERMAL BREAK (600CTRS)

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NOTE: 600mm FRAMING

FIXINGS AT 300mm CENTRES ON FRAMING 150mm FROM PANEL EDGE WITH ONE FIXING BETWEEN STUDS ON THE BOTTOM PLATE OVER FRAMING @ 600mm CTRS max.

REFER TO FOUNDATION DETAILS FOR SPECIFIC FIXING LAYOUT

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**STO ADJUSTABLE FOOT TRAY**

MIN. 50mm PAST BOTTOM PLATE OR SUBFRAME. VENTILATION MIN 1000sq mm PER LINEAL METRE

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**STOPOREN PANEL**

POREN PANEL ADHESIVE ON PANEL JOINTS

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TIMBER FRAMING TO NZS 3604

DPC

STO RENDER SYSTEM

STOFLEXYL OR LIQUID DPM ON REBATE

WEATHER PROTECTED VENTS TO ACHIEVE MIN. VENTILATION OF 1000mm²/LINEAL METER POSITIONED HARD ON REBATE

STO uPVC CONTROL JOINT OR FINISHING EDGE AT JUNCTION TO FOUNDATION

INSULATION TO EXTERIOR WALLS

INTERNAL LINING

TIMBER FRAMING TO NZS 3604

DPC

WEIGHT PROTECTED VENTS TO ACHIEVE MIN. VENTILATION OF 1000mm²/LINEAL METER POSITIONED HARD ON REBATE

STO uPVC CONTROL JOINT OR FINISHING EDGE AT JUNCTION TO FOUNDATION

INSULATION AS NZBC H1/AS1

DPM

CONCRETE SLAB/REINFORCING AS PER NZS3604 OR ENGINEER SPECIFIC DESIGN - NOT SHOWN FOR CLARITY

STOPOREN FACADE SYSTEM

REBATED SLAB-ON-GROUND - RENDER FINISH

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RIBRAFT POLYSTYRENE POD
INSTALLATION IN ACCORDANCE TO FIRTH RIBRAFT CONSTRUCTION DETAILS

CONCRETE SLAB/REINFORCING
AS PER NZS 3604: SPECIFIC
DESIGN OR ENGINEER (SED)
Reinforcing not shown for clarity

DPC

WALL UNDERLAY
STO 20mm VH CAVITY BATTENS
STOPOREN RENDER SYSTEM
STOPOREN FACADE PANEL
CAVITY SPACERS TO SUIT FIXINGS
POREN PANEL FIXING
STO uPVC VENTED BASE CAP

GL

85
220
300

50mm
cladding

150mm to paving

225mm unpaved GL

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NOTE:
SHELL OF BLOCK CAN SUPPORT BOTTOM PLATE WHEN SLAB IS TIED TO FOUNDATION

CONCRETE SLAB/REINFORCING
AS PER NZS 3604 OR ENGINEER SPECIFIC DESIGN

DPC

STO 20mm VH CAVITY BATTENS
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
CAVITY SPACERS TO SUIT FIXINGS
POREN PANEL FIXING
STO uPVC VENTED BASE CAP

50mm cladding
150mm to paved GL
225mm unpaved GL

CONCRETE FOOTING AS PER NZS 3604 OR ENGINEER SPECIFIC DESIGN

INSULATION AS PER NZBC - Class NT
DPM

WALL UNDERLAY

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CONCRETE FOOTING AS PER NZS 3604 OR ENGINEER SPECIFIC DESIGN

DPM REQUIRED ON FOUNDATION FOR POORLY DRAINED SITES OTHERWISE TERMINATE AT BOTTOM EXTERNAL CORNER OF FOUNDATION

NOTE: INSTALL STOFLEXYL UNDER DPM AT TRANSITION IF REQUIRED FOR POORLY DRAINED SITES.

WALL UNDERLAY
STO 20mm VH CAVITY BATTENS
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
CAVITY SPACERS TO SUIT FIXINGS
POREN PANEL FIXING
STO uPVC VENTED BASE CAP - 5mm MIN.GAP
STOFLEXYL WATERPROOFING TO REBATE, CONTINUE TO 50mm PAST STO RENDER TERMINATION POINT
DPM REQUIRED ON FOUNDATION FOR POORLY DRAINED SITES OTHERWISE TERMINATE AT BOTTOM EXTERNAL CORNER OF FOUNDATION

STOPOREN FACADE SYSTEM
EPS BLOCK FOUNDATION DETAIL

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1. CONCRETE SLAB/REINFORCING AS PER NZS 3604, SPECIFIC DESIGN OR ENGINEER (SED)
   *Reinforcing not shown for clarity*
2. WHERE INSULATION OS BELOW GROUND, APPLY TWO (2) COATS OF STOFLEXYL TO MAXRAFT INSULATION BEFORE COMMENCING
3. 150mm MIN. CLEARANCE FROM SLAB LEVEL TO EXTERIOR PAVING, 225mm MIN. CLEARANCE FROM SLAB LEVEL TO UNPAVED GROUND TO E2/AS1
4. AS REQUIRED, SECURE THE DPM TO THE MAXIRAFT EDGE INSULATION USING AN EIFS FLASHING TAPE 50mm ON MAXIRAFT AND 100MM ONTO UNDERSLAB DPM

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50mm DRAPE TO DOUBLE-SIDED PERFORATED FOIL INSULATION R = 0.9 - REFER NZBC - Clause H1

MIN. H1.2 TREATED FLOOR JOISTS UNDER LOAD BEARING WALLS

20mm CONTINUOUS SUBFLOOR VENTILATION GAP BETWEEN

SELECTED FLOORING

STO 20mm VH CAVITY BATTENS

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM

NOTE:
FOR CLEARANCE BETWEEN CLADDING AND ADJACENT GROUND - REFER NZS3604

H5 TREATED PILE - REFER NZS 3604 FOR TIMBER & PILE SET OUT

H4 TREATED BASEBOARDS WITH 20mm CONTINUOUS SUB FLOOR VENTILATION GAP BETWEEN

NOTE:
FOR CLEARANCE BETWEEN CLADDING AND ADJACENT GROUND - REFER NZS3604

STOPOREN FACADE SYSTEM

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OVERHANG BOUNDARY JOIST TO ALLOW CLADDING TO LAP SUBFLOOR CLADDING

100mm DRAPE TO DOUBLE-SIDED PERFORATED FOIL INSULATION R = 0.9 - REFER NZBC - Clause H1

JACK FRAMING IN AS PER NZS3604 6.10.2

NOTE: FOR CLEARANCE BETWEEN CLADDING AND ADJACENT GROUND - REFER NZS3604

STO 20mm VH CAVITY BATTENS

STO POREN PANEL FIXING

STO POREN FACADE PANEL

STO POREN RENDER SYSTEM

POREN PANEL FIXING

DPC

STO uPVC VENTED ADJUSTABLE FOOT TRAY

PROVIDE SHEET BRACING MATERIAL and VENTILATION AS PER NZS 3604

NOTE:

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STOFLEXYL MESHED WATERPROOFING FROM 150mm ABOVE GROUND AND DOWN OVER COMPRESSION BAR

SLAB-ON-GROUND FLOOR & CONC. MASONRY WALLS AS PER NZS 4210/4229/4230 & AND ENGINEERS DRAWINGS

ALLOW ADEQUATE TIME FOR BLOCK TO DRY/STABILISE BEFORE RENDERING NORMALLY FROM 4-8 WEEKS IN AVERAGE DRYING CONDITIONS.

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SCALE 1:2

WALL UNDERLAY
STO 20mm VH CAVITY BATTENS
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
POREN PANEL FIXING
STO uPVC VENTED BASE CAP

NOTE:
CUT SLOPE AT 15° OR CUT REBATE AND PLASTER 15° SLOPE IN.
STO FLEXYL WATERPROOF TO CONCRETE REBATE SURFACES AND PLASTER INTO REBATE
STOARMAT MIRAL RENDER SYSTEM
REINFORCED CONCRETE BLOCK WALLS IN ACCORDANCE WITH NZS 4230, 4229, 4218 & 4210

STOPOREN FACADE
CONCRETE BLOCK INTER-STOREY DRAINED JUNCTION

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NOTE: USE FULL PANELS WHERE POSSIBLE.
ALL PANELS CUTS SHALL BE CAREFULLY MADE TO ACHIEVE A TIGHT BUTT FIT.
ALL PANEL JOINTS MUST BE BONDED WITH POREN ADHESIVE MORTAR OR AAC 2 HOUR CONSTRUCTION GLUE.
MECHANICALLY FIX ALL PANELS WITH POREN SCREW FIXINGS AT MAXIMUM 300mm CENTRES.
PRIME ANY EXPOSED STEEL REINFORCING ENDS AND BUTT JOIN WHERE POSSIBLE.
PANELS TO BE SUPPORTED BY MINIMUM TWO STUDS OR BLOCKING.
VERTICAL CONTROL JOINTS REQUIRED AT MAXIMUM 8m CENTERS, REFER STO DETAILS.
HORIZONTAL CONTROL JOINTS AT INTERSTOREY JUNCTION IF UNSEASONED JOISTS USED.
HORIZONTAL DRAINED JUNCTION REQUIRED AT THIRD STOREY OR 7 METERS.
TIMBER FRAMING TO nzs 3604 REQUIREMENTS

WALL UNDERLAY - ENSURE UNDERLAY RUNS CONTINUOUS OVER JOINT

STOPREN FACADE PANEL

POREN FIXING

POREN ADHESIVE MORTAR OR ACC 2 HOUR CONSTRUCTION GLUE

STOPREN RENDER SYSTEM

STOTHERM 20mm VH CAVITY BATTENS

NOTE: PANELS TO BE SUPPORTED ON MINIMUM TWO STUDS OR BLOCKING.
PANEL GENERALLY JOINED OFF STUDS VERTICAL JOINTS STAGGERED IN BRICK BOND PATTERN.
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STOPOREN MINERAL
PANEL ADHESIVE OR
AAC 2 HR
CONSTRUCTION GLUE
ON ALL PANEL JOINTS

SCALE 1:2

TIMBER FRAMING
TO NZS 3604

STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
STOTHERM 20mm VH CAVITY BATTENS
POREN FIXING
WALL UNDERLAY CONTINUOUS AROUND CORNERS
STO PREMESHED CORNER ANGLE
POREN MINERAL PANEL ADHESIVE OR AAC 2 HR CONSTRUCTION GLUE ON ALL PANEL JOINTS

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NOTE:
ENSURE STOPOREN PANELS ARE SUPPORTED BY A MIN. OF 2 STUDS. VERTICAL JOINTS ARE REQUIRED AT 8.0M MAX. CTRS. SET STO CONTROL JOINT AND REMOVE TAB CAREFULLY AS SOON AS THE JOINT IS SET TO AVOID CRACKS.

STOPOREN FACADE SYSTEM
VERTICAL CONTROL JOINT

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A: INTERSTOREY PANEL
JOINT CENTRED 1/3 WAY DOWN FROM TOP OF THE JOIST.

DRY or SEASONED TIMBER OR PROPRIETARY FLOOR JOISTS

NOTE: SEASONED (dry) TIMBER OR PROPRIETARY FLOOR JOIST DETAIL

NOTE: INTERSTOREY CONTROL JOINT NOT REQUIRED ON SEASONED TIMBER OR PROPRIETARY FLOOR JOISTS. CONTINUOUS CAVITY CONSTRUCTION IS LIMITED TO TWO STORIES OR 7 METRES BEFORE A DRAINED CAVITY JUNCTION IS REQUIRED

STOFACADE SYSTEM
HORIZONTAL INTER-STOREY (on dry or proprietary joists)

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NOTE: DRY OR SEASONED TIMBER OR PROPRIETARY FLOOR JOISTS

A: INTERSTOREY PANEL JOINT CENTRED 1/3 WAY DOWN FROM TOP OF THE JOIST.

15mm GAP BETWEEN CAVITY BATTENS

INSTALL STO uPVC 12mm CONTROL JOINT WITH MS SEALANT IN MESH COAT

STOTHERM 20mm VH CAVITY BATTENS

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM

NOTE: INTERSTOREY CONTROL JOINT NOT REQUIRED ON SEASONED TIMBER OR PROPRIETARY FLOOR JOISTS. CAVITY CONSTRUCTION LIMITED TO TWO STORIES OR 7 METERS, BEFORE A DRAINED CAVITY JUNCTION IS REQUIRED

STOPOREN FACADE SYSTEM

HORIZONTAL INTER-STOREY CONTROL JOINT

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1. As required to limit continuous cavity construction to two storeys or max. 7 meters. Flashing back and front cover to be a minimum 35mm excluding drip edges.

2. In extra high wind zone increase flashing cover to 60mm min. and use a rigid underlay. Allow to render behind then seal with MS sealant or Sto Seal Tape.

StoPoren Facade System
Draped Junction at Third Storey

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NOTE: INSTALL FLASHING TAPE WITH 100mm CLEARANCE AROUND PIPE ONTO WALL UNDERLAY AND WRAP 25mm ROUND PIPE.

WHERE MIN 75mm BLOCKING SUPPORTS THE WALL UNDERLAY AROUND THE PENETRATION THE FLASHING TAPE CAN BE OMITTED BUT A FACE FIXED EXTERIOR FLANGE WITH SEALANT IS REQUIRED AS PER E2AS1 FIG.68
50 x 3mm EPDM WASHER GASKETS REQUIRED AROUND FIXINGS AND PLATE TO PROVIDE WATERTIGHTNESS

TIMBER PACKER SLOPED AT 5° 50mm min CLEARANCE FROM CAVITY BATTENS

ALL WIRING SHOULD BE ENCLOSED IN CONDUIT

CABLES SLOPE OUT

WALL UNDERLAY
STOTHERM 20mm VH CAVITY BATTEN
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM

NOTE: LIGHTS AND LIGHT WEIGHT FITTINGS CAN BE FIXED USING MASONRY FIXINGS WITH 40mm MIN. EMBEDMENT

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SELECTED HANDRAIL
TIMBER PACKER AT FIXINGS POINTS - SLOPED AT 5 DEGREES min. 50mm CLEARANCE FROM CAVITY BATTENS

NOTE: USE A FIXING PLATE ON HANDRAILS TO AVOID POINT LOADING

WALL UNDERLAY
STOTHERM 20mm VH CAVITY BATTENS
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM

50 x 3 mm EPDM WASHER GASKETS REQUIRED AROUND FIXINGS BETWEEN PLATE AND RENDER TO PROVIDE WATERTIGHTNESS

TIMBER BLOCKING BETWEEN STUDS

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STOPOREN FACADE PANEL

PRIME PANEL EDGES WITH STOPLEX W SEALER

STO JOINT SEAL TAPE

MS SEALANT

POLY WEDGE OR BATTEN FULL WIDTH OF METER BOX AT min. 10° SLOPE WITH FLASHING TAPE OVER. EXTEND WEDGE 100mm PAST SIDE OF METER BOX

LEAVE min. 50mm GAP IN CAVITY BATTEN FOR DRAINAGE

FLEXIBLE FLASHING TAPE 50mm OUT OVER THE METERBOX PERIMETER ALL AROUND AND 100mm ONTO UNDERLAY

STOTHERM 20mm VH CAVITY BATTENS TO BE 8mm FROM SIDES OF METERBOX

APPLY 6mm BEAD OF MS SEALANT OVER STO JOINT SEAL TAPE TO TOP, SIDES AND BOTTOM

STOPOREN FACADE PANEL
TIMBER FRAMING TO NZS3604
INTERNAL LINING
8mm AIRSEAL ON PEF ROD BY BUILDER

STOTHERM 20mm VH CAVITY BATTEN WITH 50mm GAP FROM HORIZONTAL SLOPED BATTEN AT JUNCTION
FLASHING TAPE OVER SLOPED POLY WEDGE OR BATTEN ONTO WALL UNDERLAY
STOPOREN RENDER SYSTEM
WEDGE OR BATTEN SLOPED AT 10° MIN. WITH BOTTOM EDGE EXTENDING INTO CAVITY
PRIME PANEL EDGES STOPLEX W SEALER

METERBOX FLASHING TAPED 50mm ONTO BOX AND 100mm ONTO WALL UNDERLAY ALL ROUND
MS SEALANT OVER STO JOINT SEAL TAPE TO PERIMETER OF METERBOX
STO 6mm PRE MESHED FINISHING EDGE

8mm AIRSEAL ON PEF ROD BY BUILDER
TIMBER FRAMING TO NZS3604 INTERNAL LINING

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1. DOWNPIPE/CLIP - SADDLE DETAIL

2. WIRING PENETRATION DETAIL

NOTE: ENSURE THE AMOUNT OF PENETRATIONS THROUGH THE SYSTEM IS KEPT TO A MINIMUM. THE WEATHERSEALING OF ALL WIRING, ETC AS SHOWN, IS THE RESPONSIBILITY OF THE APPLICABLE TRADE
NOTE:
LEAVE 40mm DRAINAGE GAP IN SEALANT AT BOTTOM OF FAN COVER.
INSTALL FLASHING TAPE 100mm AROUND PIPE ONTO WALL UNDERLAY AND WRAP
25mm ROUND PIPE.
FOR FLEXIBLE PIPES, TAPE PIPE TO FAN COVER, APPLY STO JOINT SEAL, TAPE
AROUND TAPE BEFORE PLACING IN HOLE. ALWAYS FINISH RENDER BEFORE
INSTALLING FAN COVER.
PREMESHED ARCHITECTURAL PROFILE OVER INTERSTOREY JOINT FIXED OVER MESH COAT

WALL UNDERLAY - ENSURE UNDERLAY RUNS CONTINUOUS OVER JOINT

STOPOREN RENDER SYSTEM

min. 10° FALL

STOPOREN FACADE PANEL

STOTHERM 20mm VH CAVITY BATTEN

DRO OR SEASONED TIMBER OR PROPRIETARY FLOOR JOISTS

A: INTERSTOREY PANEL JOINT CENTRED 1/3 WAY DOWN FROM TOP OF JOIST

NOTE:
1. VERTICAL CAVITY BATTENS ARE INSTALLED WITH A 15mm GAP AT INTER-STOREY JOINT
2. INSTALL STO uPVC 12mm CONTROL JOINT
3. ONLY SUITABLE FOR 2 STOREY - REFER DRAWING SHEET PP359 FOR THIRD STOREY
4. ENSURE THERE ARE NO FIXINGS INTO FLOOR JOIST

STOPOREN FACADE SYSTEM

INTER-STOREY JUNCTION WITH POLY PROFILE

SCALE 1:2

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1. Flashing tape system to be installed around joinery openings as per E2/AS1 details.
2. Sto UPVC cavity vented head flashing can be used where a rendered head is detailed - refer DWG PP 401.
3. In extra high wind zones increase flashing cover to 60mm min. and use a rigid underlay.
4. 10mm minimum head flashing or proprietary stop ends required.

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1. FLASHING TAPE SYSTEM TO BE INSTALLED AROUND JOINERY OPENINGS AS PER E2/AS1 DETAILS.
2. THE ALUMINIUM WINDOW HEAD FLASHING BUTTS INTO THE STO CAVITY JAMB TO PROVIDE STOPEND AFTER REMOVING THE JAMB TAB AND FITTING TO JOINERY BEFORE FITTING WINDOW HEAD FLASHING TIGHT AND MS SEALANT THE JUNCTIONS - SEE DETAIL PP402
3. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY

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NOTE: OPENINGS OVER 600mm REQUIRE JOINERY SUPPORT BAR
USE STO uPVC ADHESIVE SILL AND JAMB FLASHING WITH WANZ JOINERY SUPPORT BAR

JOINERY SUPPORT MUST BE CUT 15mm SHORT OF JOINERY JAMBS TO ALLOW FOR STO uPVC FLASHINGS
1. SEALANT IS APPLIED TO THE SILL AND JAMB FLASHINGS
2. WINDOW HEADS ARE LEFT OPEN
3. FLEXIBLE FLASHING TAPE SYSTEM TO BE INSTALLED AROUND JOINERY OPENINGS AS PER E2/AS1 DETAILS

WARNING: SOME BRANDS OF ALUMINIUM JOINERY HAVE DRAINAGE VENTS IN THE BOTTOM EDGE OF THE SILL FLANGE. ENSURE DRAINAGE VENTS REMAIN CLEAR.
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NOTE: INSTALL STOPOREN JOINERY FLASHING DURING POREN PANEL CONSTRUCTION

23 - 25mm GAP
10mm
20mm CAVITY BATTE
± 3-5mm TO ALLOW FOR FLASHING TAPES AT JOINERY

ALUMINIUM WINDOW JOINERY
LINE OF HEAD FLASHING 10mm OVER WITH STOPEND
MS SEALANT TO JAMBS
STO PRE-MESHED ANGLE
STO uPVC ADHESIVE SILL AND JAMB FLASHING

STOPOREN RENDER SYSTEM
WALL UNDERLAY RETURNED INTO RECESS WITH FLASHING TAPE SYSTEM. FLASHING TAPE RETURNED min 100mm UP JAMBS AS PER E2/AS1 POREN FIXING
TIMBER FRAMING TO NZS 3604

MS SEALANT TO JAMBS

SCALE 1:2

FLASHING TAPE
(100mm UP JAMBS)

H1.2 PACKER TO SUPPORT JOINERY

LINE OF HEAD FLASHING OVER WITH STOPEND

AIRSEAL ON PEF ROD GAP 7.5-8mm APPROX.

LINE OF HEAD FLASHING OVER WITH STOPEND

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM

STOTHERM 20mm VH CAVITY BATTEN

APPLY WS 205 SEALER BEFORE RENDERING

POREN FIXING

STO UPVC CAVITY JAMB AND SILL FLASHING

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FLASHING TAPE TAPE OVER SILL AND MIN. 100mm UP FRAME FINISH AT BOTTOM EDGE OF SILL SUPPORT BAR

LINE OF STOPOREN FACADE BEYOND ALUMINIUM DOOR JOINERY

SELECTED FLOOR FINISH CONTINUOUS AIR SEAL FLASHING TAPE

UNDER DOOR TRIM BY BUILDER SILL SUPPORT BAR

REFER TO E2/AS1 FIG. 17 A,B,C & D INCLUDING SECTION 9.1.10.
GROUND LEVELS 150mm MIN.FROM TOP OF FINISHED FLOOR COVERING TO PAVED GROUND

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STOPOREN FACADE SYSTEM
ENTRY DOOR/DECK THRESHOLD DETAIL

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WANZ SUPPORT BAR COMPLETE WITH VENTILATION/DRAINAGE HOLES, INSTALLED TO MANUFACTURERS RECOMMENDATIONS

SELECTED ALU. BIFOLD DOOR JOINERY INSTALLED TO MANUFACTURERS RECOMMENDATIONS

FLASHING TAPE TAPE OVER SILL AND MIN. 100mm UP FRAME FINISH AT BOTTOM EDGE OF SILL SUPPORT BAR

LINE OF STOPOREN FACADE SYSTEM BEYOND

REFER TO E2/AS1 FIG. 17 A, B, C & D INCLUDING SECTION 9.1.10. 150mm MIN. FROM TOP OF FFL COVERING TO PAVED GROUND

STOPOREN FACADE SYSTEM

BIFOLD DOOR/THRESHOLD DETAIL

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FLASING TAPE TAPE OVER SILL AND MIN. 100mm UP FRAME
FINISH AT BOTTOM EDGE OF SILL
SUPPORT BAR

SELECTED FLOOR FINISH
CONTINUOUS AIR SEAL
FLASING TAPE

LINE OF STOPOREN CLADDING
SYSTEM - SHOWN DASHED
SELECTED ALU. ENTRY DOOR
JOINERY
REMOVABLE CHANNEL COVER
CHANNEL COVER SUPPORT
BRACKETS

WANZ SUPPORT BAR WITH
VENTILATION/DRAINAGE HOLES
INSTALLED TO MANUFACTURERS
RECOMMENDATIONS
UNDER DOOR TRIM BY BUILDER

DRAINAGE CHANNEL
FALL ALONG LENGTH
TO OUTLET

NOTE
REFER TO E2/AS1 FIG. 17 A,B,C & D INCLUDING SECTION 9.1.10

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1. CHECK GARAGE DOOR SPECIFICATIONS FOR INTERNAL CORNER REQUIREMENTS
2. SEAL FLASHING FOR VERY HIGH or EXTRA HIGH WIND ZONES
3. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY

STOPOREN RENDER SYSTEM
STOPOREN FACADE PANEL
WALL UNDERLAY
20mm DRAINED CAVITY
PAREN PANEL FIXING
ADDITIONAL LAYER OF FLASHING TAPE LAPPED OVER HEAD FLASHING
STO uPVC VENTED BASE CAP
MIN. 5mm GAP REQUIRED
ALUMINIUM HEAD FLASHING WITH 15° SLOPE AND 10mm COVER

STOPOREN FACADE SYSTEM
GARAGE DOOR - TIMBER HEAD

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NOTE: USE STOARMAT RENDER ON FIBRE CEMENT & STO uPVC CLIP ON TRAY AND E2/AS1 COMPLIANT FLASHING IN CAVITY

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NOTE:
CHECK GARAGE DOOR SPECIFICATIONS
FOR INTERNAL CORNER REQUIREMENTS
1. INSTALL METAL SADDLE FLASHING AT WALL JUNCTION
2. ENSURE TOP IS TEMPORARILY WATERPROOFED BEFORE COMMENCING RENDERING
3. METAL CAPPING EXCLUDING DRIP EDGE MUST OVERLAP SHEET BY
   50mm MIN. IN LOW, MED or HIGH WIND ZONE,
   70mm MIN. IN VERY HIGH,
   90mm MIN. IN EXTRA HIGH WIND ZONES
NOTE:
STOFLEXYL MESHED WATERPROOFING MEMBRANE HAS BEEN TESTED BY BRANZ TO MEET THE REQUIREMENTS OF AS/NZS4858

WATERPROOF MEMBRANE AS REQUIRED BY E2/AS1

EXTRA HIGH WIND ZONES REQUIRE A RIGID UNDERLAY. FLASHING MUST BE TAPE TO RIGID UNDERLAY
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NOTE: STOPOREN PANEL CAP TO BE POSITIONED UNDER WALL 10mm OFF FRAMING E2/AS1 COMPLIANT BACK FLASHING REQUIRED ON TOP OF BATTENS IN CORNER TO COVER PANEL JOINT. SEE DETAIL 502
A. SADDLE FLASHING

B. PARAPET CAP

8mm EXPANSION GAP BETWEEN PARAPET CAP AND SADDLE FLASHING - USE MS SEALANT

DASHED LINE INDICATES SADDLE FLASHING UNDER RIVET CAP THROUGH TOP OVER SEALANT BEADS TO SECURE SADDLE FLASHING, SOAKERS AND JOINS.

METAL PARAPET CAP FLASHING FIXED THROUGH THE SIDES.

PARAPETS TO FALL TO INTERIOR SIDE. COVER TO CLADDING AS PER E2/AS1 TABLE 7

5° MIN SLOPE

STOPOREN FACADE SYSTEM

WALL UNDERLAY

STO 20mm VH CAVITY BATTENS

PLACE CAP FLASHING OVER SADDLE FLASHING - REFER TO E2/AS1 FIGURE 12 FOR CAP FIXING DETAILS.

H3.1 CAPPING PLATE CUT TO A FALL WITH FLASHING TAPE OR ROOFING UNDERLAY

INTERNAL CLADDING BACK FLASHING UNDER CLADDING

NOTE: SADDLE FLASHING INSTALLED OVER CLADDING.

WITH BACK FLASHINGS REQUIRED ON TOP OF CAVITY BATTENS TO INTERNAL CORNERS UNDER CLADDING.

CAP FLASHING JOINS INSTALLED OVER SOAKER FLASHINGS WITH MINIMUM 50mm OVER LAP BOTH SIDES WITH 5mm GAP AND 6mm SEALANT BEADS UNDER FLASHING OR 100mm OVERLAPPED JOINTS RIVETED THROUGH SEALANT. REFER FIG. 9 E2/AS1

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NOTICE:
APPLY STOFLEXYL MESHED WATERPROOFING OVER BASECOAT
STOFLEXYL MESHED WATERPROOFING HAS BEEN TESTED BY BRANZ TO MEET THE
REQUIREMENTS OF AS/NZS4858 FOR A WATERPROOFING MEMBRANE AS REQUIRED
BY E2/AS1

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NOTE:
APPLY STOFLEXYL MESHED WATERPROOFING OVER BASECOAT
STOFLEXYL MESHED WATERPROOFING HAS BEEN TESTED BY BRANZ TO MEET THE REQUIREMENTS OF AS/NZS4858 FOR A WATERPROOFING MEMBRANE AS REQUIRED BY E2/AS1

E2/AS1 REQUIRES BALCONY & PARAPET WALLS TO BE OFFSET FROM MAIN WALL PLANE TO ALLOW FOR SADDLE FLASHINGS

BASECOAT RENDER, STOPOREN CAP OVER H3.1 TIMBER CAPPING PLATE

OVERLAY OF STOFLEXYL MEMBRANE UNDER MESH COAT TO TOP & SIDES 100mm MIN.
DOWNTURN OVERBASE COAT RENDER

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NOTE:
HANDRAIL REQUIRED WHERE BALUSTRADE IS UNDER 1000mm.
ALLOW EXTRA CLADDING CLEARANCE TO DECK AND INCREASE MEMBRANE
UPSTAND WHERE TILING IS ANTICIPATED.
NOTE:
- 100mm MIN. FROM FLOOR LEVEL FOR ENCLOSED DECKS
- MIN. FALLS: 1:40 FOR DECKS, 1:30 FOR ROOFS & 1:100 FOR GUTTERS
- ALLOW FOR TILES IF REQUIRED
- MAINTAIN CLEARANCES AND UPSTANDS FOR TILES

SELECTED MEMBRANE FINISH OVER H3 "C" FACED PLYWOOD LAID TO 1:40 MIN. FALL, GLUE & SCREW TO TIMBER JOISTS, ALL EDGES SUPPORTED ON TIMBER
20mm MIN. ANGLE FILLET
35mm MIN. AT HIGHEST POINT OF DECK/ROOF AT 10mm DRIP EDGE

STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
FULLY SUPPORTED MEMBRANE TO RUN UP 150mm MIN. ABOVE DECK LEVEL
POREN FIXING MEMBRANE REINFORCING STRIP
VENTED CAVITY BASE CLOSER
STO uPVC ADJUSTABLE FOOT TRAY
NOTE:
REFER E2/AS1 Fig.16 FOR FLASHING REQUIREMENTS. PROVIDE 6-8mm WIDE SEALANT JOINT AT CLADDING/SADDLE FLASHING JUNCTION.

50mm MIN. SET DOWN FROM FLOOR OR THRESHOLD FOR CANTILEVERED SLATTED DECKS
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WALL UNDERLAY
20mm DRAINED CAVITY
POREN FIXING
STOPOREN RENDER SYSTEM
FLASHING TAPE 100mm ONTO WALL
UNDERLAY 25mm ONTO BRACKET

GALVANIZED OR STAINLESS
STEEL L BRACKET ENGINEERED
FOR LOAD

MS SEALANT ON STO
JOINT SEAL TAPE

LINE OF STO JOINT SEAL TAPE -
SHOWN DASHED

12mm MIN. GAP

NOTE: 'L' BRACKET ENGINEERED FOR LOAD. FLASHING TAPE TO
BUILDING UNDERLAY IN ACCORDANCE WITH E2/AS1 FIG. 68

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alter or update information at any time without prior notice and it is the responsibility of the designer, project manager or Sto contractor to insure
they have and use the current Sto details and specifications on site.
NOTE: INSTALL FLASHING TAPE OVER BRACKET ONTO BUILDING UNDERLAY AS PER E2/AS1 fig 68, ALSO REFER TO DETAIL 510

MANUFACTURED GALVANIZED STEEL ‘H’ OR ‘U’ BRACKET FOR PARALLEL JOISTS OR USE ‘L’ BRACKET FOR RIGHT ANGLE CONNECTIONS

INSTALL DECK JOIST AFTER CLADDING IS RENDER FINISHED
40mm GAP RECOMMENDED FOR FIXINGS AND RENDERING
EPDM WASHERS REQUIRED AROUND FIXINGS AND PLATE TO PROVIDE WATERTIGHTNESS

RWH HEAD FIXED DIRECTLY ABOVE & BELOW SCUPPER PENETRATION

STOPLEX W SEALER & MS SEALANT AROUND OPENING/RHW

PRE FINISHED 0.55MM BMT STEEL CUSTOM FOLDED AND RIVETED RAIN WATER HEAD

LEAF SCREEN TO OVERFLOW. AREA OF OVERFLOW TO BE 1.5 X CROSS SECTION OF DOWNPIPE AREA. OVERFLOW BELOW OPENING LEVEL

LINE OF MEMBRANE LAPPED 150mm ABOVE DECK

LINE OF UNDERLAY

OUTLET THROUGH WALL

SELECTED MEMBRANE FINISH OVER H3 "C" FACED PLYWOOD LAID TO 1:60MIN.FALL. GLUE & SCREW TO TIMBER JOISTS, ALL EDGES SUPPORTED ON TIMBER

20mm MIN ANGLE FILLET 25mm MIN GUTTER WALLS. 75mm MIN. FROM GUTTER TO CLADDING

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NOTE:

IF BLOCKING IS MISSING, STAPLE WALL UNDERLAY TO SOFFIT PLATE TO AVOID ANY VENTILATION GAPS

REFER TO E2/AS1 TABLE 1 FOR RISK LEVELS. EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm OR LESS FROM WALL CLADDING AND ROOF PITCH IS LESS THAN 10°
REFER TO E2/AS1 TABLE 1 FOR RISK LEVELS. EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm OR LESS FROM WALL CLADDING AND ROOF PITCH IS LESS THAN 10°.
NOTE:

REFER TO E2/AS1 TABLE 1 FOR RISK LEVELS. EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm OR LESS FROM WALL CLADDING AND ROOF PITCH IS LESS THAN 10°
NOTE:
MAX.ANGLE OF SOFFIT RESTRICTED
TO BETWEEN 91°-115°

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NOTE:
MAX. ANGLE OF SOFFIT RESTRICTED TO BETWEEN 91°-115°
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NOTE:
The transition tray flashing bridges the gap at the end of the fascia to protect the soffit framing. Refer also to E2/AS1 Fig 8B

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SELECTED ALUMINIUM WINDOW/DOOR JOINERY

TIMBER LINTEL AS PER NZS 3604

SELECTED FIBRE CEMENT SOFFIT LINING

18x18mm TIMBER BEAD AT SOFFIT, PAINTED

LINE OF STOPOREN FACADE BEYOND - SHOWN DASHED

PROVIDE AIRSEAL ON PEF ROD GAP 7.5-8mm APPROX. WALL UNDERLAY DRESSED INTO OPENING AS PER E2/AS1 DETAIL

100mm MIN. TO FACE OF CLADDING

varies

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SELECTED MEMBRANE FINISH OVER H3 "C" FACED PLYWOOD LAID TO 1:60MIN.FALL. GLUE & SCREW TO TIMBER JOISTS, ALL EDGES SUPPORTED ON TIMBER MIN. 5mm RADIUS TO PLYWOOD

50/90mm LAP REFER NZBC, TABLE 7 E2/AS1 50X50 ALUMINIUM ANGLE FIXED TO UNDERSIDE OF PLY SUBSTRATE

MS SEALANT ON PEF ROD ABOVE WEATHER GROOVE

WALL UNDERLAY 20mm DRAINED CAVITY STOPOREN FACADE PANEL ST POREN RENDER SYSTEM

CONTINUOUS BATTEN TO CLOSE OFF CAVITY FROM ROOF SPACE

6mm MAX GAP

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NOTE:

IF BLOCKING IS MISSING, STAPLE WALL UNDERLAY TO SOFFIT PLATE TO AVOID ANY VENTILATION GAPS

REFER TO E2/AS1 TABLE 1 FOR RISK LEVELS. EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm OR LESS FROM WALL CLADDING AND ROOF PITCH IS LESS THAN 10°
NOTE:

REFER TO E2/AS1 TABLE 1 FOR RISK LEVELS. EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm OR LESS FROM WALL CLADDING AND ROOF PITCH IS LESS THAN 10°
NOTE:

REFER TO E2/AS1 TABLE 1 FOR RISK LEVELS. EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm OR LESS FROM WALL CLADDING AND ROOF PITCH IS LESS THAN 10°
STOPOREN FACADE PANEL
POREN FIXING
STOPOREN RENDER SYSTEM
20mm DRAINED CAVITY
STOPEND TO PROJECT
10mm MIN. PAST FINISHED
CLADDING
STO VENTED ADJUSTABLE
FOOT TRAY
PRE FINISHED METAL
APRON FLASHING
PREFINISHED METAL
ROOFING OVER UNDERLAY
SELECTED ROOF UNDERLAY
ROOF UNDERLAY
CONTINUOUS TO TOP OF
FLASHING

NOTE:
STOPENDS REQUIRED AT ROOF to WALL
JUNCTION TO DIVERT WATER FROM CAVITY

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NOTE: CONTRACTOR TO FIT STOPEND FLASHING & HEMMED FLASHING FOR FASCIAS 50mm BEHIND CLADDING, 50mm BEHIND FASCIA. STO CONTRACTOR TO APPLY FINISHED SEALANT JOINT BETWEEN FASCIA & RENDER. UNDERLAY or FLASHING TAPE OVER FLASHING UPSTAND.
ROOFING MEMBRANE 150mm
MIN.UPSTAND, 75mm
CLADDING COVER, CLADDING
35mm MIN. ROOF/DECK

STO uPVC ENDCAPE

STO STICK ON CONNECTOR or MS
SEALANT JOINT ON PEF ROD
BETWEEN STOPEND AND CLADDING

PRE FINISHED FABRICATED
STOP END
ROOFING MEMBRANE OVER METAL
STOPEND. STOPEND TO EXTEND 10mm
MIN. PAST FINISHED WALL

NOTE: MEMBRANE ROOF NOT SHOWN ON
STOP END FOR CLARITY. STOP END
UNDER MEMBRANE OR IN CONJUNCTION
WITH ROOF APRON FLASHING

A = CAVITY & FINISHED CLADDING + 10mm
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NOTE: WHERE GUTTER FINISHES WITHIN THE LENGTH OF THE WALL, STEP LOWER PART OF GUTTER OUT TO 10mm PAST THE CLADDING LINE, WHILE MAINTAINING REQ. CLEARANCES, TO ALLOW THE GUTTER TO FEED INTO THE LOWER EAVES GUTTER.
- REFER NZBC E2/AS1 Fig: 50 Incl. Section 8.1.6.2
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SELECTED MEMBRANE FINISH OVER H3 "C" FACED PLYWOOD LAID TO 1:60MIN. FALL. GLUE & SCREW TO TIMBER JOISTS, ALL EDGES SUPPORTED ON TIMBER MIN. 5mm RADIUS TO PLYWOOD

50/90mm LAP REFER NZBC, TABLE 7 E2/AS1

50X50 ALUMINIUM ANGLE FIXED TO UNDERSIDE OF PLY SUBSTRATE

PREFINISHED METAL SPOUTING AND BRACKETS

H3.1 PRE PRIMED & PAINTED FASCIA/BARGE BOARD

MS SEALANT ON PEF ROD OR STO JOINT SEAL TAPE ABOVE WEATHER GROOVE

POREN FIXING WALL UNDERLAY

20mm DRAINED CAVITY

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM

CONTINUOUS BATTEN TO CLOSE OFF CAVITY FROM ROOF SPACE

TIMBER FRAMING TO NZS3604

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PENETRATION APRON FLASHING
HEM FOLD UNDER ROOFING
SEPARATE ROOFING SHEET OVER
MIN. UPSTAND 110mm

SIDE COVER = 2 CRESTS

SCALE 1:20
FRAMED CHIMNEY
STOARMAT RENDER SYSTEM
WITH PREMESHED EXTERNAL CORNERS
H3.1 TIMBER CAVITY BATTENS
WALL UNDERLAY - FIBRE CEMENT SHEET
WALL CLADDING
35mm GAP BETWEEN CLADDING AND FLASHING
ROOF STRUCTURE NZS 3604

NOTE:
SUITABLE FOR RECTANGULAR PENETRATIONS UP TO 1200mm WIDE.
ROOF PITCH MUST BE 10° or HIGHER - REFER TO E2/AS1 TABLE 9 or 17 FOR MAX. ROOF LENGTH ABOVE PENETRATIONS. BLOCKING REQUIRED FOR PENETRATIONS OVER 200mm.
FLASHING SHOWN IS MINIMUM REQUIREMENT FOR COMPLIANCE WITH E2/AS1. REFER SPECIFIED ROOFING MANUFACTURER FOR SPECIFIC DETAILS RELATING TO CRICKET FLASHING IF USED

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NOTE: WHERE A TIMBER SCRIBER IS REQUIRED EXTEND FLASHING ACCORDINGLY

STOPOREN FACADE SYSTEM
EXT. CORNER W'BOARD/STOPOREN - OPT 1

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NOTE: WHERE A TIMBER SCRIBER IS REQUIRED EXTEND FLASHING ACCORDINGLY
NOTE: IF A TIMBER SCRIBER REQUIRED
EXTEND FLASHING ACCORDINGLY

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COVER

WALL UNDERLAY

SELECTED HORIZONTAL TIMBER WEATHERBOARDS OVER 20mm DRAINED CAVITY, SCRIBER TO SUIT PROFILE

MS SEALANT ON STO JOINT SEAL TAPE OR PEF ROAD 6mm MIN.GAP

E2/AS1 COMPLIANT TOP HAT METAL FLASHING

SELECTED HORIZONTAL TIMBER WEATHERBOARDS OVER 20mm DRAINED CAVITY, SCRIBER TO SUIT PROFILE

STOTHERM 20mm VH CAVITY BATTEN

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM WITH 6mm FINISHING EDGE. S PROTECT WS 205 TO SEAL END PANEL

MS SEALANT ON STO JOINT SEAL TAPE OR PEF ROAD 6mm MIN.GAP

NOTE:
A = CHECK WITH SHEET METAL FOLDER A
NARROW NECK MAY REQUIRE A WELDED JOINT OR WIDER TOP HAT
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RIGID AIR BARRIER TO GABLE END
BEVEL-BACK TIMBER
WEATHERBOARDS OVER 20mm DRAINED CAVITY

FLASHING TAPE LAPPED OVER FLASHING
H3.1 FRAMING TO ALIGN W.BOARD GABLE. CLOSE OFF WITH BOTTOM PLATE

CAVITY CLOSER POSITIONED TO GIVE 15mm MIN. DRIP EDGE TO CLADDING

ALU. INTER-STOREY FLASHING STOPEND. 15° SLOPE & 35mm MIN. COVER MS SEALANT TO RENDER/FLASHING

STOPOREN RENDER SYSTEM WITH STO 6mm PREMESHED FINISHING EDGE. SEAL END PANEL WITH S PROTECT WS 205

POREN FIXING 20mm DRAINED CAVITY
STOPOREN FACADE PANEL

1. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY

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Selected 70 Series Clay Brick Veneer with 40mm Min. Cavity

50mm Min. Cover

E2/AS1 Compliant Back Flashing

STOTHERM 20mm VH Cavity Batten

Stooporren Render System with Sto 6mm Premeshed Finishing Edge & Sto uPVC End Cap to Panel

6mm Wide MS Sealant Over Sto Joint Seal Tape

Stooporren Facade Panel

Selected 70 Series Clay Brick Veneer with 40mm Min. Cavity

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STOPOREN FACADE PANEL
20mm DRAINED CAVITY
MS SEALANT JOINT OVER PEF ROD
STO uPVC VENTED BASE CAP
SILL 15° SLOPE OVERHANG 30-50mm. FINISH ENDS WITH BRICK SILL OR SLIP
VENT EVERY THIRD PERPEND BRICK TIES

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WALL UNDERLAY CONTINUOUS AROUND CORNER

STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
STOTHERM 20mm VH CAVITY BATTEN
STO uPVC END CAP
STO PREMESHED FINISHING EDGE
MS SEALANT OVER STO JOINT SEAL TAPE OR PEF ROD
STOARMAT RENDER SYSTEM ON FC SHEET OVER 20mm DRAINED CAVITY WITH STO uPVC CLIP ON FLASHING (end tabs removed)

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1. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY
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COVER
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
SEAL END PANEL WITH STOTHERM 20mm VH CAVITY BATTESS
STOTHERM 20mm VH CAVITY BATTEN
STOARMAT MIRAL REndersystem on selected concrete block series
E2/AS1 compliant back flashing chased into concrete block
STO uPVC CONTROL JOINT ALLOW 10mm GAP FILL WITH MS SEALANT ON COMPLETION
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Timber Framing to NZS 3604

Wall Underlay
Continuous around corners, Polypropylene flashing tape applied to protect wall underlay 75mm min. wide

StoPoren Facade
Panel
20mm Drained cavity

StoPoren Render System

MS sealant on PEF rod

Seal end panel with Sto Protect WS 205

Proprietary Manuf. Stone Cladding over adhesive mortar on approved fibre cement sheet substrate fixed according to manufacturers constr. details

Note: Finish StoPoren Facade System before installing stone cladding.
NOTE: FINISH STO POREN CLADDING SYSTEM BEFORE INSTALLING STONE CLADDING
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TIMBER FRAMING TO NZS 3604

STOPOREN FACADE PANEL

20mm DRAINED CAVITY

STOPOREN RENDER SYSTEM

20mm DRAINED CAVITY

STOPOREN FACADE PANEL

STO 6mm PREMESHED FINISHING EDGE

MS SEALANT ON PEF ROD

PROPRIETARY MANUF. STONE CLADDING OVER ADHESIVE MORTAR APPROVED FIBRE CEMENT SHEET SUBSTRATE FIXED ACCORDING TO MANUFACTURERS CONSTR. DETAILS

8mm GAP, MS SEALANT JOINT

E2/AS1COMPLIANT CORNER FLASHING

WALL UNDERLAY CONTINUOUS AROUND CORNERS

NOTE: INSTALL FC SHEET AND FINISH STOPOREN FACADE SYSTEM BEFORE INSTALLING STONE

DOUBLE STUD REQUIRED

STOPOREN FACADE SYSTEM

INTERNAL CORNER - MANUF. STONE/STOPOREN

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TIMBER FRAMING TO NZS 3604
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
20mm DRAINED CAVITY WALL UNDERLAY CONTINUOUS AROUND CORNERS STOPOREN FACADE PANEL
MS SEALANT ON PEF ROD PROPRIETARY SCHIST OR STONE VENEER CLADDING OVER ADHESIVE MORTAR ON APPROVED FIBRE CEMENT SHEET SUBSTRATE FIXED ACCORDING TO MANUFACTURERS CONSTR. DETAILS
E2/AS1 COMPLIANT CORNER FLASHING 8mm GAP, MS SEALANT JOINT
STOTHERM 20mm VH CAVITY BATTEN
STO 6mm PREMESHEP FINISHING EDGE
SEAL END PANEL WITH S PROTECT WS 205

NOTE: INSTALL FC SHEET AND FINISH STOPOREN FACADE SYSTEM BEFORE INSTALLING STONE

DOUBLE STUD REQUIRED

STOPOREN FACADE SYSTEM
INT. CNR SCHIST or STONE VENEER/STOPOREN

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TOP PIECE OF SCHIST OR STONE MUST EITHER BE PLACED OR CUT SO A 15° SLOPE IS FORMED ON THE SILL

6mm MS SEALANT

STO uPVC VENTED BASE CAP

STOPOREN RENDER SYSTEM
STOPOREN FACADE PANEL
POREN FIXING

PROPRIETARY SCHIST OR STONE VENEER CLADDING OVER ADHESIVE MORTAR ON APPROVED FIBRE CEMENT SHEET SUBSTRATE FIXED ACCORDING TO MANUFACTURERS CONSTR. DETAILS

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REFER TO E2/AS1 FOR COMPLIANT PROFILES AND FLASHINGS
HORIZONTAL PROFILE METAL WALL CLADDING IS FIXED ON A DRAINED CAVITY
VERTICAL PROFILE METAL WALL CLADDING IS DIRECT FIXED OVER A ROOF UNDERLAY

STOPOREN FACADE SYSTEM
INT. CORNER - HORIZ. PROFILED METAL/STOPOREN

PP 851
2018
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STOPOREN FACADE SYSTEM

VERT. JUNCTION - HORIZ. PROFILED METAL/STOPOREN

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1. REFER TO E2/AS1 FOR COMPLIANT PROFILES AND FLASHINGS

2. HORIZONTAL PROFILE METAL WALL CLADDING IS FIXED ON A DRAINED CAVITY

3. VERTICAL PROFILE METAL WALL CLADDING IS DIRECT FIXED OVER A ROOF UNDERLAY

4. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY

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REFER TO E2/AS1 FOR COMPLIANT PROFILES AND FLASHINGS
HORIZONTAL PROFILE METAL WALL CLADDING IS FIXED ON A DRAINED CAVITY
VERTICAL PROFILE METAL WALL CLADDING IS DIRECT FIXED OVER A ROOF UNDERLAY

STOPOREN RENDER SYSTEM WITH 6mm STO PREMESHEP FINISHING EDGE & STO uPVC END CAP
MS SEALANT ON STO JOINT SEAL TAPE OR PEF ROD 6mm MIN. GAP
E2/AS1 COMPLIANT FLASHING (SPECIFY COATING)
VERTICAL PROFILED METAL WALL CLADDING (SPECIFY TYPE, THICKNESS & COATING)

DOUBLE STUD REQUIRED

STOPOREN FACADE PANEL
STOTHERM 20mm VH CAVITY BATTEN

STOPOREN FACADE SYSTEM
INT. CORNER - VERTICAL PROFILED METAL/STOPOREN

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1. REFER TO E2/AS1 FOR COMPLIANT PROFILES AND FLASHINGS
2. HORIZONTAL PROFILE METAL WALL CLADDING IS FIXED ON A DRAINED CAVITY
3. VERTICAL PROFILE METAL WALL CLADDING IS DIRECT FIXED OVER A ROOF UNDERLAY. FIXING IN ACCORDANCE WITH E2/AS1
4. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN AND USE A RIGID UNDERLAY
WALL UNDERLAY CONTINUOUS AROUND CORNERS, FLASHING TAPE APPLIED TO PROTECT WALL UNDERLAY 75mm MIN. WIDE

50mm STOTHERM PANEL WITH STOARMAT RENDER SYSTEM TO FINISH

8-12mm

uPVC STOTHERM END CAP

STOPOREN FACADE PANEL

STOTHERM 20mm VH CAVITY BATTEN

POREN FIXING

STOPOREN RENDER SYSTEM S PROTECT WS 205 TO SEAL END PANEL

STO PRE MESHED ANGLE TO CORNER

USE A POLY PACKER TO FORM GAP IN BASECOAT BEFORE INSTALLING STO uPVC CONTROL JOINT WITH MS SEALANT IN STOARMAT CLASSIC MESH COAT

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E2/AS1 COMPLIANT HEATED METAL FLASHING

WALL UNDERLAY

STOTHERM END CAP

8-12mm

50mm STOTHERM PANEL WITH STOARMAT RENDER SYSTEM TO FINISH

STOTHERM FIXING

50mm STOTHERM PANEL WITH STOARMAT RENDER SYSTEM TO FINISH

8-12mm

USE A POLY PACKER TO FORM GAP IN BASECOAT BEFORE INSTALLING STO uPVC CONTROL JOINT WITH MS SEALANT IN STOARMAT CLASSIC MESH COAT

50mm MIN. COVER

50mm MIN. COVER

STOTHERM 20mm VH CAVITY BATTEN

STOPOREN RENDER SYSTEM STO uPVC END CAP

STOPOREN FACADE PANEL

STOPOREN FIXING

STOPOREN FACADE SYSTEM

VERTICAL JOINT - 50mm STOTHERM/STOPOREN

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50mm STOTHERM PANEL WITH STOARMAT RENDER SYSTEM TO FINISH

20mm CAVITY

STOTHERM uPVC END CAP

USE A POLY PACKER TO FORM GAP IN BASECOAT BEFORE INSTALLING STO uPVC
12mm CONTROL JOINT WITH MS SEALANT IN STOARMAT CLASSIC MESH COAT

20mm CAVITY

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM WITH STO uPVC END CAP

NOTE: UP TO A MAX. OF TWO STOREYS OR 7 METRES IN HEIGHT

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1. DRAINED INTER-STOREY FLASHING REQUIRED TO LIMIT CONTINUOUS CAVITY CONSTRUCTION TO TWO (2) STOREYS, GABLE END OR 7 METRES
2. IN EXTRA HIGH WIND ZONES INCREASE FLASHING UPSTAND TO 60mm MIN. AND USE A RIGID UNDERLAY

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INTERNAL LINING

TIMBER LINTEL AS PER NZS 3604

FLEXIBLE FLASHING TAPE INSTALLED OVER WALL UNDERLAY AT CORNERS

AIRSEAL ON PEF ROD GAP 7.5-8mm APPROX

ARCHITRAVE OR SLIMLINE DETAIL

TIMBER WINDOW HEAD - PROFILE TO NZS 3610

STOPRENGR derivatives Panel

FLASHING TAPE ONTO WALL UNDERLAY and OVER ALU. HEAD FLASHING

STO uPVC VENTED BASE CAP WITH MIN 5mm GAP

MIN. 5mm GAP REQUIRED

E2/AS1 COMPLIANT HEAD FLASHING, WITH 15° SLOPE AND 10mm MIN COVER TO JOINERY AND 10mm FLASHING OR PROPRIETARY STOPENDS

STOPOREN RENDER SYSTEM

20mm DRAINED & VENTED CAVITY - BATTENS AT 300 - 600mm MAX.CTRS.

STOPRENGR FACADE PANEL

STOPOREN FACADE SYSTEM

TIMBER WINDOW JOINERY - HEAD DETAIL

PP 870

2018

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TIMBER DOOR SILL TO NZS 3610 ON SUPPORT BAR

STO uPVC END CAP AND PREMESHED FINISHING EDGE

E2/AS1 COMPLIANT SILL FLASHING STOP ENDED AND LAPPED UNDER JAMB PACKERS

MS SEALANT

WALL UNDERLAY TURNED INTO FRAMING REVEALS

KEEP WALL UNDERLAY & BATTENS 20MM UP FROM BOTTOM EDGE OF CLADDING

STO uPVC VENTED BASE CAP OR FOOT TRAY

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20mm REBATE WITH DPM, PEF ROD AND MS SEALANT AIRSEAL

FLASHING TAPE 100mm MIN. UPSTAND TO JAMBS

TIMBER SILL TO NZS 3610

STO ADJUSTABLE FOOT TRAY ADAPTED TO SUIT

H3.2 TIMBER PACKER ON DPC TO SUPPORT SILL SECURED TO CONCRETE SLAB WITH MASONRY ANCHORS

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FLASHMAN ALUMINIUM MITRE SOAKER
SUPPLIED BY FLASHMAN INSTALLED BY BUILDER

AIRSEAL ON PEF ROD GAP 7.5-8mm APPROX.
WALL UNDERLAY RETURNED INTO OPENINGS & FLASHING TAPE CONTINUOUS ALONG SILL MIN 100mm UP JAMBS & 50mm ONTO FACE OF WALL UNDERLAY
14 GAUGE HOT DIP GALV.(316SS WHERE REQ.) S.T.H.C SCREWS @ 600mm CTRS. WITH 65mm MIN. FRAME PENETRATION. SUPPLIED BY FLASHMAN

STOPOREN RENDER SYSTEM
20mm DRAINED CAVITY
POREN FIXING
STOPOREN RENDER SYSTEM

25mm MIN. FROM OUTSIDE FACE OF THE FRAMING LINE TO THE BACK OF WINDOW FLANGE
SUPPORT PACKER
FLASHMAN BACK PLATE - SHOWN DASHED
FLASHMAN EXTRUDED ALU EURO SILL WITH END CAP - SHOWN DASHED
ALT METRO SILL - SHOWN DASHED

TIMBER FRAMING TO NZS 3604

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WALL UNDERLAY INSTALLED AS PER E2/AS1

INTERNAL LINING TIMBER FRAMING TO NZS3604

AIRSEAL ON PEF ROD GAP 7.5-8mm APPROX.

FLASHING TAPE (100mm UP JAMBS)

H1.2 PACKER TO SUPPORT JOINERY

ALUMINIUM WINDOW JOINERY

25mm MIN. FROM OUTSIDE FACE OF FRAMING TO BACK OF WINDOW FLANGE

H3.1 PACKER SUPPLIED AND INSTALLED BY FLASHMAN CONTRACTOR

FLASHMAN EXTRUDED ALUM. JAMB FLASHING

uPVC STICK ON JOINERY CONNECTOR

STO uPVC END CAP TO END OF PANEL

LINE OF ALT. METRO SILL BELOW - SHOWN DASHED

LINE OF FLASHMAN EURO SILL FLASHING

DO NOT FIX THROUGH FLASHING

STOPOREN FACADE SYSTEM

FLASHMAN JAMB FLASHING

PP 880

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AIRSEAL OVER PEF
ROD GAP 7.5-8mm APPROX

INTERIOR LINING
TIMBER LINTEL AS PER NZS 3604

1. IN EXTRA HIGH WIND ZONES
   INCREASE FLASHING UPSTAND TO
   60mm AND USE A RIGID UNDERLAY
2. 10mm MINIMUM HEAD FLASHING OR
   PROPRIETARY STOP ENDS
   REQUIRED

WALL UNDERLAY INSTALLED AS PER E2/AS1
20mm DRAINED CAVITY
STOPOREN FACADE PANEL
STOPOREN PANEL RENDER SYSTEM
STOPOREN CAVITY JAMB FLASHING STOP-ENDS
FLASHING TAPE ONTO WALL UNDERLAY
STO uPVC VENTED BASE CAP

MIN. 5mm GAP REQUIRED
ALUMINIUM WINDOW HEAD FLASHING MIN.15°
SLOPE AND 10mm COVER AT WINDOW HEAD
SEALANT REQUIRED FOR VERY HIGH AND
EXTRA HIGH WIND ZONES

PROPRIETARY HOMERIT PVC WINDOW JOINERY

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NOTE: IF A TIMBER SCRIBER REQUIRED EXTEND FLASHING ACCORDINGLY
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NOTE: IF A TIMBER SCRIBER REQUIRED
EXTEND FLASHING ACCORDINGLY
NOTE: IF A TIMBER SCRIBER REQUIRED EXTEND FLASHING ACCORDINGLY

STOPOREN RENDER SYSTEM
STOPOREN FACADE PANEL
S PROTECT WS 205 SEAL TO END OF PANEL - MS SEALANT
STO uPVC 6mm FINISHING EDGE
RUSTICATED TIMBER WEATHERBOARDS - DIRECT FIXED
E2/AS1 COMPLIANT FOLDED METAL FLASHING
MS SEALANT ON STO JOINT SEAL TAPE or PEF ROD 6mm GAP MIN.
FLASHING TAPE APPLIED TO UNDERLAY MIN. 75mm WIDE
WALL UNDERLAY CONTINUOUS AROUND CORNER

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RUSTICATED TIMBER WEATHERBOARDS TO NZS 3617 OVER 20mm DRAINED CAVITY

FLASHING TAPE LAPPED OVER HEAD FLASHING

CAVITY CLOSER POSITIONED TO GIVE 15mm MIN. DRIP EDGE TO CLADDING

MIN. 5mm GAP REQUIRED

E2/AS1 COMPLIANT FLASHING

1. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY

MS SEALANT OR STO JOINT SEAL TAPE AS REQUIRED TO RENDER/FLASHING

20mm DRAINED CAVITY

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM WITH 6mm PRE MESHED FINISHING EDGE. SEAL PANEL END WITH S PROTECT WS 205

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1. IN EXTRA HIGH WIND ZONES INCREASE FLASING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY

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