

4231HF JAMES HARDIE FACADE CLADDING

Masterspec sections must be customised to suit the project being specified, by removing irrelevant information and adding project-specific information and selections.

1. GENERAL

This section relates to the supply and fixing of James Hardie fibre cement ExoTec[®] Facade Panel rainscreen and Titan[®] Facade Panel rainscreen.

Modify or extend the above description to suit the project being specified.

Where the cladding manufacturer prepares bracing schedules for their products, these lists should be used in preference to preparing your own bracing schedules. Include them either in the specification or on the drawings. This approach ensures the industry becomes familiar with one set of terminology for bracing elements.

1.1 RELATED WORK

Refer to ~ for ~.

Refer to painting section/s for the protective coating required to meet the NZBC durability requirements.

Include cross references to other sections where these contain related work. These may include: 4231HH JAMES HARDIE HARDIEFLEX™ SHEET CLADDING for James Hardie HardieFlex™ Sheet cladding, 4231HW JAMES HARDIE WEATHERBOARD CLADDING for Linea™ Weatherboards and James Hardie Weatherboards, 4256HM JAMES HARDIE MONOLITHIC CLADDING for Monotek[®] Sheet and Hardiebacker™ Substrate. 4171HR JAMES HARDIE RIGID AIR BARRIERS for James Hardie HomeRAB™ PreClad™ Lining and RAB™ Board for pre-cladding

Documents

1.2 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

NZBC E2/AS1	External moisture
AS/NZS 1170.2	Structural design actions - Wind actions
AS/NZS 2908.2	Cellulose-cement products - Flat sheet
NZS 3602	Timber and wood-based products for use in building
NZS 3604	Timber framed buildings
AS/NZS 4284	Testing of building facades

Delete from the DOCUMENTS clause any document not cited. List any additional cited documents. The following are related documents and if referred to in the work section need to be added to the list of DOCUMENTS.

Refer to the following related documents when preparing this section:

BRANZ BU 353	Ground clearances
BRANZ BU 393	Powder-actuated and mechanically powered fasteners
BRANZ BU 407	Walls on exposed sites
BRANZ BU 467	Principles of flashing design
BRANZ BU 449	Keeping water out - Timber-framed walls
BRANZ BU 519	Fasteners selection
BRANZ publication	Selecting wall claddings

1.3 MANUFACTURER/SUPPLIER DOCUMENTS

James Hardie documents relating to this part of the work:

Titan[®] Facade Panel/ExoTec[®] Facade Panel Rainscreen technical specification

Titan[®] Facade Panel/CLD[®] Structural Cavity Batten technical specification

HardieFlex™ Sheet technical specification

Eaves and Soffit Linings installation manual

[BRANZ Appraisal 467](#) - Titan[®] & Exotec[®] Facade Panel Rainscreen

Manufacturer/supplier contact details

Web: www.jameshardie.co.nz

Telephone: 0800 808 868

It is important to ensure that all personnel on site have access to accurate, up to date technical information on the many products, materials and equipment used on a project. In most cases individual products are not used in isolation, but form part of a building system. Also a particular manufacturer's and/or supplier's requirements for handling, storage, preparation, installation, finishing and protection of their product can vary from what might be considered the norm. Access to technical information can help overcome this potential problem.

Warranties

1.4 WARRANTY - MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier warranty:

15 years: For James Hardie™ ~.
(refer to James Hardie™ product warranty)

Insert product selected, this may include; Axon™ Panel cladding, Villaboard® Soffit Lining, ExoTec® Facade Panel, Titan® Facade Panel, HardieFlex™ Sheet cladding, James Hardie™ Weatherboard cladding, Monotek® Sheet, Hardiebacker™ Substrate, Villaboard® Lining, HardieGroove™ Lining. Refer to James Hardie™ product warranty for details.

15 year: For accessories supplied by James Hardie (refer to James Hardie™ product warranty)

From: Date of purchase

- Provide this warranty on the manufacturer's standard form.

Refer to the general section 1237 WARRANTIES for additional requirements.

Modify or expand the clause to suit project requirements, options include:

Requirements

1.5 NO SUBSTITUTIONS

Substitutions are not permitted to any specified system, or associated components and products.

1.6 MAINTENANCE REQUIREMENTS

Provide relevant James Hardie maintenance requirements at completion of the work.

Refer to James Hardie Technical Specification for maintenance guidance:

Performance

The following clause sets the wind design parameters which can used, within the scope of James Hardie standard details. Modify the clause for specific design beyond these parameters.

1.7 PERFORMANCE, WIND

The design wind pressures are to [AS/NZS 1170.2](#). James Hardie Technical Specification are suitable for these conditions. Refer to technical specification to check the wind pressure limits.

Up to;

2.5kPa ULS Titan® Facade Panel on CLD® Structural Cavity Batten.

4.5kPa ULS Titan® Facade Panel on timber cavity battens.

5.0kPa ULS ExoTec® Facade Panel on steel top hat section.

Beyond these pressures ensure all specific design details related to James Hardie Titan® & Exotec® Facade Panel are checked by James Hardie during the design stage. Modify this section to reflect their requirements.

Note; 2.5kPa ULS and the others are greater than Very High Wind Speed in [NZS 3604](#).

2. PRODUCTS

Materials

2.1 RIGID AIR BARRIERS

Refer to section 4171HR JAMES HARDIE RIGID AIR BARRIERS.

Delete this clause if not required. HomeRAB™ PreClad™ Lining and RAB™ Board are used in instead of wraps, for among other things, earlier enclosure, bracing, for high wind pressures where some building wraps are not suitable and to meet the requirements of [NZBC E2/AS1. 9.1.4 b](#).

2.2 BUILDING WRAP

Refer to section 4161 WRAPS, UNDERLAYS AND DPC.

Delete this clause if not required. Some building wraps are only suitable to withstand low wind pressures. Check the design wind pressures for the project and make the appropriate selection.

- 2.3 EXTERIOR CAVITY WALL BATTENS
Radiata pine battens, minimum 45mm wide x 18mm thick, H3.1 treated, height to match timber framing studs. To NZS 3602, Table 1, reference 1D.10, Requirements for wood-based building components to achieve a 50-year durability performance.
Delete if specified elsewhere. Refer to James Hardie technical specifications for further details.
- 2.4 CLD STRUCTURAL CAVITY BATTENS
James Hardie CLD[®] Structural Cavity Batten, 2450mm long, 70mm wide and 19mm thick manufactured from treated cellulose fibre, Portland cement, sand and water. Cured by high pressure autoclaving and manufactured to AS/NZS 2908.2. James Hardie CLD[®] Structural Cavity Battens are suitable to carry the load of Titan[®] Facade Panel cladding. James Hardie Titan[®] Facade Panel and CLD[®] Structural Cavity Batten installed as per the James Hardie technical specification have been tested in a NATA accredited testing laboratory and complies with requirements of NZBC Sections B1, B2 and E2. The battens have both faces and all edges presealed.
Select one of the above two clauses.
CLD Structural Cavity Battens are only suitable for installation with Titan[®] Facade Panel cladding system for a maximum wind pressure exerted on the building facade of 2.5 kPa.
- 2.5 EXOTEC[®] TOP HAT SECTIONS
James Hardie ExoTec[®] Top Hat steel sections are proprietary rolled zincalume coated (AZ150) 35mm deep x 1.2mm thick. James Hardie ExoTec[®] Facade Panel installed over ExoTec[®] Top Hats as per the James Hardie technical specification have been tested in a NATA accredited testing laboratory and complies with requirements of NZBC Sections B1, B2 and E2.
- 2.6 EXTERIOR CAVITY CLOSER
Perforated uPVC, with upstands.
Cavity closer/vermin-proofing to NZBC E2/AS1: clause 9.1.8.3 and figure 66.
- 2.7 EXOTEC FACADE PANEL
James Hardie ExoTec[®] Facade Panel, high density autoclaved sheet, 1190mm wide x 9mm thick manufactured from treated cellulose fibre, Portland cement, sand and water. Cured by high pressure autoclaving and manufactured to AS/NZS 2908.2. BRANZ appraised and tested to AS/NZS 4284 for weathertightness. Both faces and all edges presealed.
Premium product for negative expressed jointed facades
- 2.8 TITAN FACADE PANEL
James Hardie Titan[®] Facade Panel, medium density autoclaved sheet, 1190mm wide x 9mm thick manufactured from treated cellulose fibre, Portland cement, sand and water. Cured by high pressure autoclaving and manufactured to AS/NZS 2908.2. BRANZ appraised, tested to AS/NZS 4284 for weathertightness. Both faces and all edges presealed.
Standard product for negative expressed jointed facades.
- 2.9 FLUSH JOINTED SOFFIT LINING
James Hardie Villaboard[®] Lining 6mm and 9mm thick manufactured from treated cellulose fibre, Portland cement, sand and water, cured by high pressure autoclaving and manufactured to AS/NZS 2908.2.
Refer to James Hardie technical specifications for further details.
- 2.10 SOFFIT LINING
James Hardie 4.5mm Hardiesoffit[™] Lining, Hardieflex[™] Eaves Lining, Silkline[®] Soffit Lining Eclipsa[™] Eaves Lining, HardieGroove[™] Lining and 6mm HardieFlex[®] Lining soffit manufactured from treated cellulose fibre, Portland cement, sand and water and cured by high pressure autoclaving manufactured to AS/NZS 2908.2.
Refer to James Hardie technical specifications for further details.

Components

- 2.11 FASTENER TYPE
Fasteners to minimum durability requirements of the NZBC. Refer to [NZS 3604](#), Section 4 Durability, for requirements for fixing's material to be used in relation to the exposure conditions.

Exposure conditions & nail selection prescribed by [NZS 3604](#), Section 4, Table 4.3 Steel items such as nails and screws used for framing and cladding.

Zone	Fixings Material
Sea Spray Zones*	Grade 316 Stainless
Zone 1 (outside sea spray zone), Zones 2 - 4 & Geothermal hot spots	Hot-dipped galvanized or 316 stainless
Bracing - All zones	Grade 316 Stainless

* Zone 1 areas where local knowledge dictates that increased durability is required, appropriate selection shall be made

Refer to [NZBC E2/AS1](#), Table 20, Material selection, and Table 21, Compatibility of materials in contact, for selection of suitable fixing materials and their compatibility with other materials.

- 2.12 NAIL / SCREWS, CLD[®] STRUCTURAL CAVITY BATTEN FIXING
Hot-dip galvanized 65mm x 2.8mm RoundDrive ring shank nail for fixing to timber framing.
50mm x 9-10g countersunk head steel screw (Class 3 or 4) for fixing to steel framing
- 2.13 THERMAL BREAK FOR STEEL FRAMING
For structural steel framing use 7-10mm XDP (extruded polystyrene grade) between the steel frame and wrap/RAB board, to provide a thermal break.
Modify this clause to suit.
- 2.14 SCREWS, FACADE PANEL FIXING TO TIMBER BATTEN
Grade 316 stainless steel countersunk wood screws 65mm x 10 g for ExoTec[®] and Titan[®] Facade Panels.
This clause for suitable only for fixing to timber cavity battens.
- 2.15 NAIL/SCREWS, TITAN FACADE PANEL FIXING TO CLD[®] BATTEN
Titan[®] Facade Panel fixing to CLD[®] Structural Cavity Batten.
Stainless Steel C-25 'T' Head brad nail for wind pressure up to 1.5kPa.
For wind pressures up to 2.5kPa (select one of the following):
25mm x 2.5mm annular threaded fibre cement nail.
25mm x 8-10g or pan / wafer head exposed screw (Class 3/ 4)
25mm x 8-10g countersunk screw (Class 3/ 4 or stainless steel)
Refer to James Hardie Titan[®] Facade Panel and CLD[®] Structural Cavity Batten technical specification for further details.
- 2.16 GALVANIZED NAILS
Hot-dip galvanized HardieFlex[™] nails for Titan[®] Facade Panel fixing
60mm x 3.15mm diameter for cavity construction.
Select galvanized or stainless steel depending on exposure conditions. ExoTec[®] Facade Panels must be fixed using countersunk or exposed wood screws.
- 2.17 STAINLESS STEEL NAILS
316 stainless steel HardieFlex[™] nails for Titan[®] Facade Panel fixing.
60mm x 3.15mm diameter for cavity construction.
Select galvanized or stainless steel depending on exposure conditions.
- 2.18 SCREWS, EXOTEC[®] FACADE PANEL TO EXOTEC[®] TOP HAT SECTION
As detailed in James Hardie ExoTec[®] Facade Panel Top Hat Rainscreen technical specification.
- 2.19 HORIZONTAL T SOCKET JOINTER
Aluminium T socket manufactured from grade 5005 aluminium alloy.

- 2.20 SOFFIT JOINTERS AND CAPPING MOULDS
Extruded uPVC jointer, 2 way jointer, capping and scotia mould.

Accessories

- 2.21 SEALING STRIPS
Inseal[®] 3259, 1.5mm thick x 50mm wide black compressible medium density closed cell foam tape.

Butyl rubber black membrane with a 6mm x 9mm Inseal 3109 adhered along each edge of one face with pressure sensitive acrylic adhesive. 50mm wide for vertical joints and 80mm wide for corners.

Polypropylene / Polyethylene flashing for internal and external corners used with CLD[®] structural cavity batten.

- 2.22 ADHESIVE FOR CLD[®] STRUCTURAL CAVITY BATTEN
Adhesive to be applied continuous 6mm thick bead(s) to the face of CLD[®] Structural Cavity Batten to adhere the Titan[®] Facade Panel.
Refer to James Hardie Titan[®] Facade Panels and CLD[®] Structural Cavity Batten technical specification for further details.

- 2.23 SEALANT
Silaflex MS sealant or similar. Refer to the sheet manufacturer's technical literature for selection and use requirements.

3. EXECUTION

Conditions

- 3.1 STORAGE
Take delivery of products dry and undamaged on pallets, and keep on pallet. Protect edges and corners from damage and covered to keep dry until fixed.

- 3.2 HANDLING
Avoid distortion and contact with potentially damaging surfaces. Do not drag sheets across each other, or across other materials. Protect edges, corner and surface finish from damage.

- 3.3 SUBSTRATE
Do not commence work until the substrate is of the standard required for the specified finish; plumb, level and in true alignment. Moisture content of timber framing must not exceed the requirements specified by [NZS 3602](#) to minimise shrinkage and movement after sheets are fixed.

For facade panel confirm that 75mm framing for vertical joints and 125mm nogs for horizontal joints have been correctly installed when using timber cavity battens.

- 3.4 SEAL CUT ENDS, CLD[®] STRUCTURAL CAVITY BATTEN
Site cut batten ends to be between 20 - 45 degrees and sealed with Dulux AcraPrime 501/1 sealer or Resene Quick Dry sealer prior to installation with the butt joint deflecting moisture to the exterior.

- 3.5 SEAL EDGES
Seal site cut sheet edges prior to installation. Seal sheet edges around window and door openings, meter boxes and at other penetrations.

Application - particular installations

- 3.6 FIRE RESISTANCE RATING, FIBRE CEMENT
Install mineral fibre insulation or glass fibre insulation fitted tightly in the timber framing cavity. Apply fire retardant building paper to the exterior face of the framing and fix fibre

cement cladding and lining sheets, direct or on cavity. Refer to James Hardie Fire and Acoustic technical specification.

3.7 BRACING SYSTEM

Fix sheets in accordance with James Hardie technical specification.

Refer to James Hardie technical specification for further information and guidance. Refer also to any bracing schedules or drawings.

Application - generally

3.8 RIGID AIR BARRIER

Refer to 4171HR JAMES HARDIE RIGID AIR BARRIERS.

Delete this clause if not required..

3.9 FIX BUILDING WRAP

Refer to 4161 WRAPS, UNDERLAYS AND DPC.

Delete this clause if not required..

3.10 INSTALL DRAINED CAVITY WITH TIMBER BATTENS

18mm minimum thickness ventilated and drained cavity to NZBC E2/AS1: 9.0 Wall claddings, where required. Fix vertical cavity battens to wall framing studs. The battens are fixed by the cladding fixings which will penetrate the wall framing studs over the building wrap. Seal the top of the cavity and install cavity closer at base.

Do not use continuous horizontal cavity battens at nogs or at bottom plate. Use cavity spacers where fixing is required between cavity battens.

Delete if specified elsewhere.

Note that it is important that the openings in the cavity closer are kept clean and unobstructed in order to maintain drainage and venting of the cavity.

3.11 INSTALL DRAINED CAVITY WITH CLD[®] STRUCTURAL CAVITY BATTEN

James Hardie uPVC vent strip to be fixed between the CLD[®] Structural Cavity Battens at the Titan[®] Facade Panel joints, install the vent strip as per Titan[®] Facade Panel and CLD[®] Structural Cavity Batten technical specification details.

3.12 PENETRATIONS AND FLASHINGS

Confirm that exterior wall openings have been prepared ready for the installation of all window and door frames and other penetrations through the cladding. Required preparatory work includes the following:

- Building wrap appropriately incorporated with penetration and junction flashings.
- Materials lapped in a way that water tracks down to the exterior face of the building wrap.
- Wall cladding underlay/building wrap to openings finished and dressed off ready for the installation of window and door frames and other penetrations
- Claddings neatly finished off to all sides of openings
- Installation of flashings (those required to be installed prior to installation of penetrating elements).

Refer to James Hardie technical specification for information on window details. Also refer to the Windows Association of New Zealand website (www.wanz.org.nz) for information on the WANZ WIS Window Installation System. This covers the WANZ recommendations on the preparation of window/door openings, minimum clearances between rough openings and the window/door frame, dressing of the wall wrap into the prepared opening, application of flexible flashing tape to the sill and top corners of the opening, installation of window/door frames and flashings, sealing of the window/door frame into the opening to create a pressure equalisation cavity, installation of flashings and the maintenance of appropriate clearances between the frame and the surrounding construction.

Install Titan[®]/ExoTec[®] Facade Panels

3.13 RIGID AIR BARRIER

Refer to 4171HR JAMES HARDIE RIGID AIR BARRIERS.

Delete this clause if not required..

3.14 RAINSCREEN HORIZONTAL JOINT

Glue Aluminium 'T' Socket to the top of the back face of the lower panel. Do not allow fixings through the upper sheet to penetrate through the aluminium socket.

For timber cavity rainscreen - normally a 2mm packer is required under the Aluminium 'T' Socket. Use of two layers of DPC is recommended for this purpose. Refer to James Hardie Rainscreen technical specification, figure 10.

'Z' flashings are normally used to drain off moisture accumulated within a cavity and must be provided after every 10 metre height maximum. Refer to James Hardie Rainscreen technical specification, figure 8: Aluminium 'T' socket joint.

- 3.15 **TIMBER CAVITY BATTEN**
 Fix battens to all studs using 40mm x 2.8mm HardieFlex™ nails at 800mm centres. Fix small cavity packers 150mm long at bottom plate and nogs to facilitate panel fixing. Refer to James Hardie Rainscreen technical specification, Table 3, Fixing durability, for durability requirements of fixings.
Delete if specified elsewhere.

- 3.16 **CLD® STRUCTURAL CAVITY BATTEN**
 Fix battens to all studs using 65mm x 2.8mm RounDrive ring shank nails for timber framing. For steel framing, fix battens over 10mm HDP thermal break using 50mm x 9-10g countersunk head steel screw (Class 3 or 4) at fixing centres as per James Hardie Titan® Facade Panel and CLD® Structural Cavity Batten technical specification, Table 2: Batten Fixing. Fasteners to be driven at a minimum distance of 50mm from the batten ends. Refer to James Hardie Titan® Facade Panel and CLD® Structural Cavity Batten technical specification, Table 4 for durability requirements of fixings.

- 3.17 **EXOTEC® TOP HAT STEEL SECTIONS**
 Fix James Hardie ExoTec® Top Hat Steel Sections to James Hardie ExoTec® Facade Panel Top Hat Rainscreen technical specification.

- 3.18 **TITAN® FACADE PANEL RAINSCREEN**
 Fix Titan® Facade Panels through Timber Battens.

Rainscreen fixing:

Fixing type:	Design wind pressures (uls)	Stud spacing c/c maximum	Fastener spacing c/c maximum at panel edge studs	Fastener spacing c/c maximum at top/ bottom plate	Fastener spacing c/c maximum at intermediate stud
65x10g screw	Up to 1.5kPa	600mm	200mm	300mm	300mm
	Up to 4.5kPa	400mm	200mm	200mm	200mm
60x3.15mm HardieFlex Nail	Up to 1.5kPa	600mm	200mm	300mm	200mm
60x3.15mm HardieFlex Nail	Up to 4.5kPa	400mm	150mm	200mm	150mm

Note: Screws and nails chosen must meet the durability requirements as outlined in Table 3 of James Hardie Rainscreen technical specification. Stud spacing must be in accordance with the project engineer's design requirements.

- 3.19 **TITAN® FACADE PANEL OVER CLD® STRUCTURAL CAVITY BATTEN**
 Apply continuous 6mm thick bead(s) of adhesive to the face of CLD® Structural Cavity Batten to adhere the Titan® Facade Panels with selected fixings at maximum centres as per Table 3 and details to James Hardie Titan® Facade Panel and CLD® Structural Cavity Batten technical specification.
Customise above clause to suit project-specifics.

- 3.20 **EXOTEC® FACADE PANEL RAINSCREEN OVER TIMBER CAVITY BATTENS**
 Fix ExoTec® Facade Panels to timber cavity battens. ExoTec® facade panels must only be screw fixed.

Stud centres	Fixing type	Fixings to perimeter studs/nogs (maximum)	Fixings to intermediate stud (maximum)
600mm	65mm x 10g screw	200mm	300mm

400mm	65mm x 10g screw	200mm	200mm
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Note: Screws chosen must meet the durability requirements as outlined in Table 2 of James Hardie Rainscreen technical specification.

- 3.21 EXOTEC® FACADE PANEL RAINSCREEN OVER STEEL TOP HAT SECTIONS
Fix ExoTec® Facade Panels to Top Hat steel sections as per Table 4 of James Hardie ExoTec® Facade Panel Top Hat Rainscreen technical specification.

3.22 **FIXING GENERALLY**

All panel edges must be supported. The screws must be driven perfectly tight against the panels so that there is no movement between the panels and framing. Use a hand screw driver to finally tighten all screws. The minimum edge distance as per technical specification must be maintained when fixing screws or nails through the rainscreen panels. When countersunk screws are used the screw head must be set between 1.5mm minimum to 2.0mm maximum below the panel surface.

Use James Hardie countersinking drill bit to drill holes in the panel. The drill speed must be set between 400 and 560 rpm.

Speeds greater than this will break the drill bit.

3.23 **FINISHING SITE CUT EDGES**

Any penetrations as well as site cut sheet edges must be sealed with an appropriate sealer that is compatible with the finishing coat.

3.24 **FINISHING SEALANTS**

Apply and use of sealants to manufacturer's instructions. Check with sealant manufacturer prior to coating over sealants.

Some sealant manufacturers do not recommend coating over their product.

3.25 **FINISHING SCREW FILLER**

Fill all countersunk screw holes with an epoxy filler. The countersunk holes must be clean and dry before they are filled. Ensure that the screws are perfectly tight and there is no movement between the panel and framing before the holes are filled. Use Nuplex Fairing Cream or a similar product for this purpose. Refer to the epoxy manufacturer recommendation before use.

3.26 **FINISHING GENERAL**

Refer to painting section/s for protective coating system. Panels must be coated within 90 days of installation.

Soffits

3.27 **INSTALL SOFFIT SHEETS**

Cut sheets dry and ensure all edges and joints are fully supported. Nail and insert uPVC fasteners to James Hardie requirements. Fit complete with jointers and capping moulds. Refer to Eaves and Soffit Linings installation manual.

For narrow soffit edge support refer installation manual.

3.28 **INSTALL FLUSH JOINTED SOFFIT SHEETS**

Cut sheets dry and ensure all edges and joints are fully supported. Fit expansion joints to limit finished areas to 9 metre x 6 metres for large soffits or 7.2 metres for narrow soffits. Flush joints with James Hardie Base Coat, paper reinforcing tape and James Hardie Top Coat to flush width of 180mm. Refer to Eaves and Soffit Linings installation manual.

Control joints for skillion roofs need more consideration. Refer to Eaves and Soffit Linings installation manual.

Completion

3.29 **REPLACE**

Replace all damaged or marked elements.

3.30 **LEAVE**

Leave work to the standard required for following procedures.

3.31 REMOVE
Remove debris, unused materials and elements from the site.

4. SELECTIONS

4.1 TIMBER CAVITY BATTENS

Timber species: Radiata pine
Treatment: H3.1

Delete if specified elsewhere.

4.2 CLD[®] STRUCTURAL CAVITY BATTENS

Brand/type: James Hardie CLD[®] Structural Cavity Batten

Thickness: 19mm

Fastener type: ~

Fastener finish: ~

Adhesive: ~

*Fastener Type: 65mm x 2.8mm RounDrive ring shank nails
40mm x 9-10g countersunk head steel screw (Class 3 or 4)*

*Fastener finish: Hot-dipped galvanised
Stainless Steel*

*Adhesive: Bostik 'Seal N Flex - 1'
Sika Sikaflex 11FC*

4.3 EXOTEC[®] TOP HAT STEEL SECTIONS

Brand/type: James Hardie ExoTec[®] Top Hat steel sections

Size: 35mm deep x 1.2mm thickness

Fastener type: ~

Fastener finish: ~

Fastener Type: as per project engineer's recommendation

Fastener finish: as per project engineer's recommendation

4.4 EXOTEC FACADE PANELS

Location: ~

Brand/type: James Hardie ExoTec[®] Facade Panel

Thickness: 9mm

Fastener type: Screw

Fastener finish: ~

Fastener finish: 316 stainless steel, class 3 or 4 coated

4.5 TITAN FACADE PANELS

Location: ~

Brand/type: James Hardie Titan[®] Facade panel

Thickness: 9mm

Fastener type: ~

Fastener finish: ~

*Fastener Type: Fastener types for Timber Batten:
65mm x 10g countersunk wood threaded screw
60 x 3.15mm HardieFlex™ nail*

*Fastener types for CLD Structural Cavity Batten:
C-25 'T' Head stainless steel brad nail
25 x 2.5mm annular threaded fibre cement nail
25mm x 8-10g pan head screw (Class 3 /4)
25mm x 8-10g wafer head screw (Class 3 /4)
25mm x 8-10g countersunk screw (class 3 /4) or stainless steel*

*Fastener finish: Hot-dipped galvanised
Stainless Steel*

4.6 FLUSH JOINTED SOFFIT SHEETS

Brand/type: James Hardie Villaboard[®] Lining soffit system

Thickness: ~mm

Nails: 40 x 2.8mm HardieFlex™ Nails

Thickness options: 6mm, 9mm.

4.7 SOFFIT SHEETS

Brand/type: James Hardie ~

Thickness: ~mm

Jointer: ~

Nails: ~

Type options: *Hardiesoffit™ Lining*
HardieFlex™ Eaves Lining
Silkline Soffit Lining (prepainted)
Villaboard Lining
Eclipsa Eaves Lining (prepainted)

Also available in 6mm HardieFlex™ Sheet.

Nail options: *40 x 2.8mm HardieFlex™ Nails*
38 x 12mm Fastfix nylon fasteners

Finishing

4.8 PAINTING

Refer to painting section/s for details.

DRAFT