

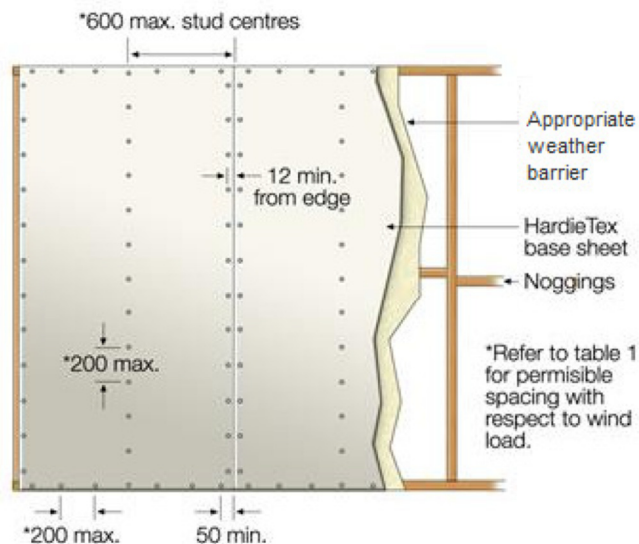
This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas

**SPECIFICATION**

This data sheet covers the use of 7.5mm HardieTex™ base sheet textured cladding in residential façade applications over a light-gauge steel frame or a timber wall frame and must be read in conjunction with current product literature, namely “Hardie™Tex Base Sheet Installation Guide” available from our website:  
<https://www.jameshardie.com.au/productrange/hardietex-system>

**FRAMING & SHEET INSTALLATION**

Install sheets vertically to steel or timber stud-frames as shown in **Figure 1** and in accordance with the stud and fastener spacing given in **Table 1** and **Table 2** depending on the wind load classification or design pressure.



**Figure 1: Sheet Fastening Spacing**  
(fixing to noggings not required)

Framing width at sheet joints must be a minimum of 42mm for timber and 38mm for steel. Where the studs at sheet joints are less than this, provide double 35mm wide studs at sheet joints. Ensure that double studs are fastened together and flush at the outside face.

All intermediate support studs must be a minimum of 64 x 35mm deep for steel framing and 70 x 35mm for timber.

All sheet edges and joints must be supported by framing.

**Framing – Steel**

The steel wall frame (minimum 64 x 35mm studs) must be in accordance with NCC 2022 Clause H1D6 Item (3). Studs to be rolled steel sections not exceeding 2mm in thickness.

**Framing – Timber:**

Use of timber framing must be in accordance with AS 1684: 2021 “Residential timber-framed construction” and framing manufacturer’s specifications. Use seasoned timber or else unseasoned hardwood minimum F14 grade. LVL timber may be used.

Spacing of the M12 cyclone rods to be determined from AS 1684.3: 2021, but never more than 2.4m apart if bracing capacity is claimed.

**Jointing:**

HardieTex base sheets are butted hard together with no gaps being left between sheets and the set (recessed-edge) joint is then formed between adjoining vertical edges. Sheet joints must coincide with the centre line of the framing member.

**TABLE 1: Maximum Stud, Batten & Fastener Spacing for Wind Pressure Design to AS 4055: 2021**

Wind Load	General Areas of Building					Within 1200mm of Building Edges				
	AS 4055 Classification (Cyclonic)	Max Design Pressure (kPa)	Can Battens Be Fixed Off-Stud?	Stud / Batten Spacing (mm)	Batten Fastener Spacing (mm)	Sheet Fastener Spacing (mm)	Max Design Pressure (kPa)	Can Battens Be Fixed Off-Stud?	Stud / Batten Spacing (mm)	Batten Fastener Spacing (mm)
C1	-0.98 +1.05	YES	600 or 450	300	200	-1.95	YES	600 or 450	300	200
C2	-1.45 +1.56	YES	600 or 450	300	200	-2.90	YES	450 (steel) 400 (timber)	200	150
C3	-2.14 +2.30	NO	450 or 400	300	200	-4.27	NO	400	200	100
C4	-2.88 +3.11	NO	450 or 400	200	150	-5.77	NO	300	150	125

**TABLE 2: ULS Design Pressure Capacity**

Stud / Batten Spacing (mm)	Sheet Fastener Spacing (mm)	ULS Capacity (kPa) to Timber Framing	ULS Capacity (kPa) to Steel Framing	Batten Fastener Spacing (mm)	Can Battens be Fixed Off-Stud?
600	200	2.05	2.55	300	YES
	100	2.55	2.55	200	YES
450	200	2.78	3.16	200	YES Up to 2.95kPa for steel frame, but 2.60kPa for timber
	150	3.64	4.55	200	
400	100	5.36	5.36	200	
	200	3.07	3.84	200	YES Up to 3.32kPa for steel frame, but 2.93kPa for timber
	150	4.10	5.12	200	
300	100	6.14	6.78	200	
	200	3.91	4.59	200	NO
	150	5.46	6.83	150	NO
	100	5.95	7.00	150	NO

**FIXING / FASTENERS**

Fixings and fastener may be minimum Class 3 finish if concealed and/or sealed, but must be Class 4 if exposed to the elements. Use the following fasteners or approved equivalent fasteners:

**Fasteners - Steel Framing:**

Use 30mm Buildex FibreTeks® or 32mm HardieDrive® screws.

**Fasteners - Timber Framing:**

Use a 2.8 x 30mm galvanised fibre cement nail.

**Fasteners – On-Stud Cavity Battens:**

To steel framing, use 41mm HardieDrive CSK screws or Tri-Fix 10-12 x 100 self-drilling bugle-head screws. To timber framing, use Paslode 65 x 2.8mm ring-shank nails.

**Fasteners – Off-Stud Cavity Battens:**

Fixing to steel noggings, use 2No 41mm HardieDrive screws per intersection for noggings up to 900mm max spacing. Fixing to timber noggings, use 1No 65 x 2.87mm Paslode DekFast ring-shank nail for nogging spacing up to 800mm max and 2No 65mm Dekfast nails for nogging spacing up to 900mm.

**STRUCTURAL BRACING**

Refer to the James Hardie DTCM sheet for structural bracing.

**DETAILS & OTHER MATTERS**

More extensive construction details and jointing details are provided in current James Hardie literature for the HardieTex cladding system. Refer also to the Warranty in that literature.

For further details on matters such as a thermal break, an appropriate weather barrier (eg vapour permeable sarking), flashing, system accessories and finishing, refer to current James Hardie technical literature for the HardieTex cladding system, the NCC or relevant Australian Standards.

Product Name

**HARDIE™TEX CLADDING SYSTEM**

Product Description

**7.5mm External Cladding for Walls**

Manufacturer's Details

**James Hardie Australia Pty Ltd**

10 Colquhoun Street, Rosehill NSW 2142



Design Criteria

**[1] General**

All design and construction must comply with the appropriate requirements of the current National Construction Code (NCC) and other applicable regulations and standards.

**[2] Wind Loading**

The cladding sheet must be fastened to the frame in accordance with **Table 1** for the different wind classifications, which are taken from AS 4055: 2021 “Wind Loads for Housing”. The effective design wind speeds are given in Table 2.1 of AS 4055: 2021.

For design to AS/NZS 1170.2: 2021 “Part 2: Wind Actions”, the ULS design capacity of the system is given in **Table 2**, noting that an ULS material capacity reduction factor (‘phi’) is implicitly included and no further factoring of the design capacity is needed.

Limitations

[1] Hardie™Tex base sheet is an external wall cladding for residential use only. This cladding has been designed for external pressure and suction loadings only. **The designer must ensure that the framing is capable of resisting simultaneously the internal and external design pressures (ie an internal lining is required).**

[2] To use **Table 1**, the design must comply with the geometric limits given at Clause 1.2 of AS 4055: 2021 (eg max eaves height = 6m and maximum building width = 16m), except as varied by the design engineer.

[3] Fastening: All fasteners specified must be driven flush. Do not fix fasteners closer than 12mm from panel edges, or closer than 50mm from sheet corners.

**Accepted for inclusion in Deemed to Comply Manual**

DTCM drawing number: M/453/01

Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 30/04/2026 Expiry Date: 30/04/2031

Notes covering basis of DTC (Relevant test reports etc)

The nominated structural capacity of the system is based on the following documentation:

[1] James Hardie “Technical Submission for Structural Certification of 7.5mm HardieTex Base Sheet Used as External Cladding” Fourth Edition dated 4 June 2025, which references various test reports and design calculations.

[2] David Beneke Consulting letter of certification 2024-35-LO-60 (Revision 1) dated 4 June 2025.

[3] Cyclone Structural Testing Station Report No.TS 471 dated 23 July 1996 “Static and Cyclic Uniform Loading of Hardiflex Cladding” and James Hardie letter to NT BASB dated 7 August 1996 regarding the outcome of testing cyclic versus static loading.

**Checking Engineer**

Name: DAVID BENEKE

Registration Number: IEAUST 62658

Date: 30 June 2025

Signature:

Must be an Australian registered structural engineer

**Certifying Engineer**

Name: NAVID NIKJOO

NT Registration Number: 341218 ES

Date: 3 December 2025

Signature:

Must be a registered structural engineer in the Northern Territory