



To know more about  
HardieFlex<sup>®</sup> NexGen<sup>™</sup> with  
MoldBlock<sup>™</sup> technology,  
scan the QR code

## WALL INSTALLATION GUIDE

**PHILIPPINES**

OCTOBER 2022

PRODUCT OVERVIEW

The real HardieFlex<sup>®</sup> NexGen<sup>™</sup> with MoldBlock<sup>™</sup> Technology specifically engineered for Filipino homes.



KEY FEATURES

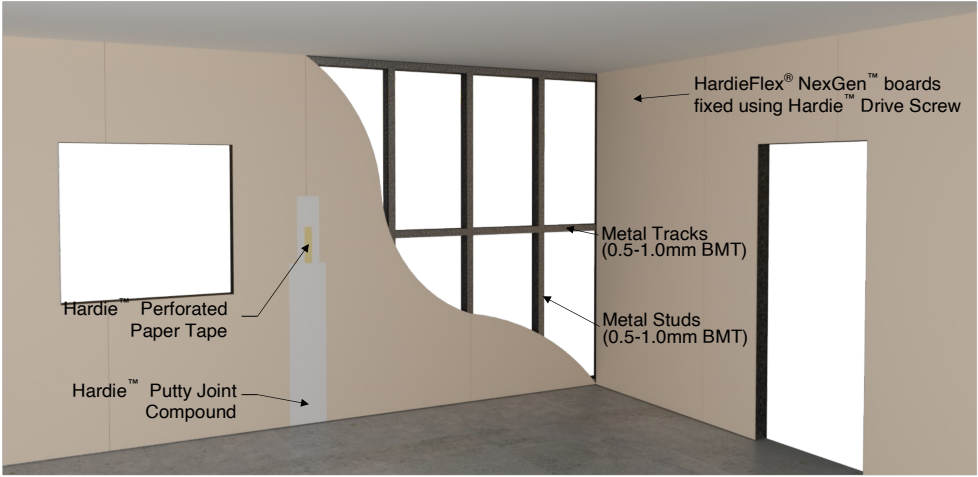
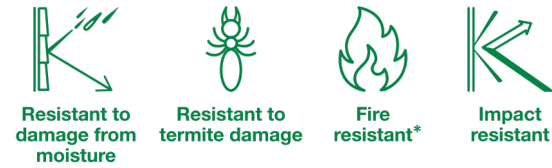
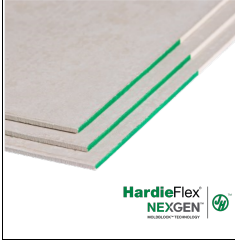


FIGURE 1: HARDIEFLEX<sup>®</sup> NEXGEN<sup>™</sup> BOARDS ON WALL SYSTEM OVERVIEW

PRODUCT SPECIFICATIONS

The following HardieFlex<sup>®</sup> NexGen<sup>™</sup> boards are recommended for dry wall application.












HardieFlex <sup>®</sup> NexGen <sup>™</sup> Board Sizes			
	Dimensions (thickness x length x width)	Weight (kg)	Product Code
	4.5mm x 2438mm x 1219mm	20	405335
	6.0mm x 2438mm x 1219mm	27	405336
	9.0mm x 2438mm x 1219mm	40	405337
	12.0mm x 2438mm x 1219mm	53	405338

Note: Dimensions and weight are approximate only and subject to manufacturing tolerances. Weight may vary based on moisture content.

COMPONENTS AND TOOLS

Below are the components and tools used to install HardieFlex<sup>®</sup> NexGen<sup>™</sup> board on dry wall application.

Components supplied by James Hardie	
	<b>Hardie<sup>™</sup> Drive Screw</b> Use Hardie <sup>™</sup> Drive Screw 20mm long for fixing 4.5mm to 6.0mm boards, 25mm for fixing 9.0mm boards and 32mm for fixing 12mm boards on to a steel frame.
	<b>Hardie<sup>™</sup> Drive Nail</b> Use Hardie <sup>™</sup> Drive Nail for fixing 3.5mm to 6.0mm thick boards on to a timber frame.
	<b>Hardie<sup>™</sup> Perforated Paper Tape</b> Joint reinforcing tape used with Hardie <sup>™</sup> Putty Joint Compound for seamless joint.
	<b>Hardie<sup>™</sup> Putty Joint Compound</b> Joint compound used with Hardie <sup>™</sup> Perforated Paper Tape for seamless joint.
	<b>Hardie<sup>™</sup> Scoring Knife</b> Used for easy cutting of 3.5mm to 6.0mm thick HardieFlex <sup>®</sup> NexGen <sup>™</sup> boards.

Components NOT supplied by James Hardie	
	<b>Polyurethane (PU) Sealant</b> Paintable sealant to be used in joints & gaps.
	<b>Backing Rod</b> Used together with PU sealant for moving joints.
	<b>Bond Breaker Tape</b> Shiny wax non-sticky tape used behind control joints.
	<b>Putty Knife</b> Used to apply joint compounds to the boards surface.

\*HardieFlex<sup>®</sup> boards are suitable for use where non-combustible materials are required and, do not contribute to flame spread.  
\*\*The above performance claims are subject to the product being installed and maintained correctly in accordance with James Hardie's published literature current at the time of installation

DANGER - DO NOT BREATHE DUST AND CUT ONLY IN WELL VENTILATED AREA

May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must: (1) wear appropriate respiratory protective equipment compliant with OSHA standards for silica dust or particulates such as, but not limited to NIOSH approved P1, P2 or P3 respirators; (2) follow James Hardie's cutting instructions as per our Best Practice Guidelines to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; and (4) when using mechanical saws or high speed cutting tools, work outdoors and use dust collection equipment while still wearing the appropriate respiratory protective equipment. During clean-up, use a well maintained high-efficiency particulate (HEPA) vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods –never dry sweep. For further information, refer to our installation instructions and Safety Data Sheets available at [www.jameshardie.com.ph](http://www.jameshardie.com.ph).

FAILURE TO ADHERE TO OUR WARNINGS, SAFETY DATA SHEETS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

JAMES HARDIE'S RECOMMENDED SAFE WORKING PRACTICES	
<b>CUTTING OUTDOORS</b> 1. Position cutting station so wind will blow dust away from the user or others in working area. 2. Use a dust reducing circular saw equipped with saw blade and M or H-class vacuum extraction. 3. Consider rotating personnel across cutting tasks to further limit respirable silica exposures. 4. Use one of the following methods based on the required cutting rate: <b>Best</b> • Hardie <sup>™</sup> Scoring Knife • Hand guillotine • Fibreshear <b>Better</b> • Position the cutting station in a well-ventilated area. Use a dust reducing circular saw equipped with saw blade and well maintained M-class vacuum or higher with appropriate filter for capturing fine (respirable) dust. Wear a properly-fitted, approved dust mask or respirator (minimum P1).	
<b>CUTTING INDOORS</b> 1. Cut only using Hardie <sup>™</sup> Scoring Knife, hand guillotine or fibreshears (manual, electric or pneumatic). 2. Position cutting station in a well-ventilated area.	
<b>DRILLING/OTHER MACHINING</b> When drilling or machining you should always wear a P1 dust mask and warn others in the immediate area.	
<b>IMPORTANT NOTES</b> 1. For maximum protection (lowest respirable dust production) James Hardie recommends always using best practice cutting methods where feasible. 2. NEVER use a power saw indoors or in a poorly ventilated area. 3. ALWAYS use a dust reducing circular saw equipped with a sawblade specifically designed to minimize dust creation when cutting fiber cement connected to a M class or higher vacuum. 4. NEVER dry sweep - Use wet suppression, or an M class vacuum or higher with appropriate filter. 5. NEVER use grinders. 6. ALWAYS follow tool manufacturers' safety recommendations. 7. ALWAYS wear a properly fitted, approved dust mask, P1 or higher	
<b>COMPONENTS NOT SUPPLIED BY JAMES HARDIE</b> James Hardie provides no warranty on components recommended for use in conjunction with HardieFlex <sup>®</sup> NexGen <sup>™</sup> boards but not supplied by James Hardie. Please contact the relevant component manufacturer for further information on their products and any warranties provided	

**STORAGE AND HANDLING**  
To avoid damage, all building products from James Hardie should be stored with edges and corners of the boards protected from damage. Building products from James Hardie must be installed in a dry state and protected from weather during transport and storage. The stored product must be laid flat under cover on a smooth level surface clear of the ground to avoid exposure to water, moisture, etc. Protective gloves must be worn while handling boards.

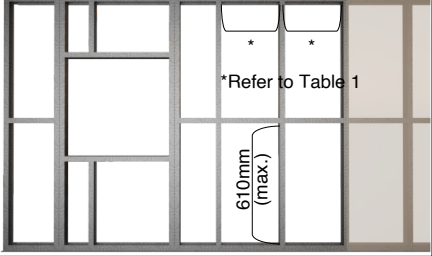


INSTALLATION PROCEDURE

BOARD INSTALLATION

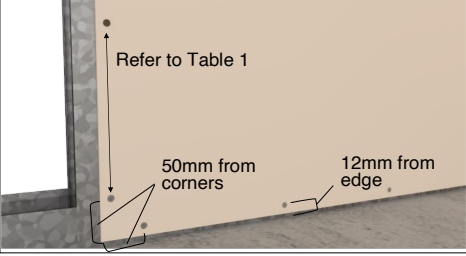
1

Install the HardieFlex® NexGen™ boards vertically. See Table 1 for recommended frame spacing.



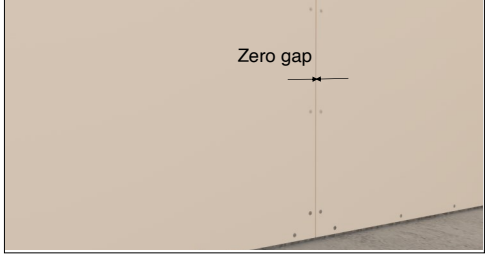
2

Fasten the HardieFlex® NexGen™ board using the appropriate Hardie™ Drive fastener.



3

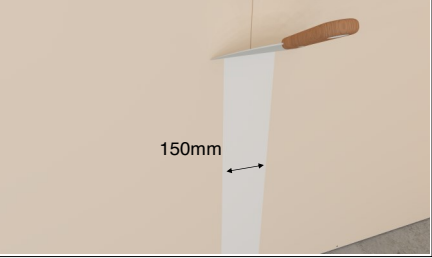
Fix the next board with the same method. Leave zero gap in between boards.



SEAMLESS JOINT

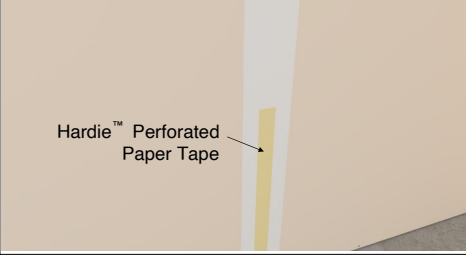
1

Apply thick layer of Hardie™ Putty Joint Compound at 150mm width. Maximum of 1m application length at a time.



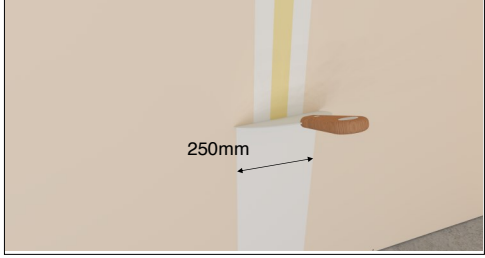
2

Apply Hardie™ Perforated Paper Tape. Ensure there are no voids under the tape, then scrape the excess compound.



3

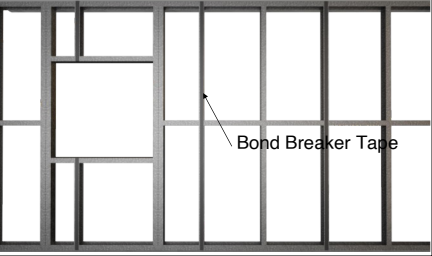
Apply second coat of Hardie™ Putty Joint Compound at 250mm width. Apply additional coat as necessary to fully seal the tape.



EXPRESS JOINT

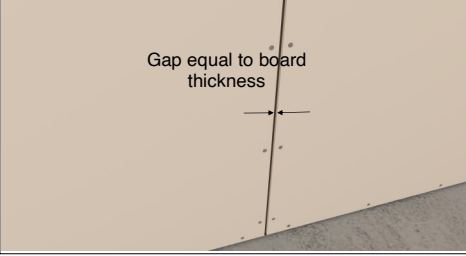
1

Before installation, apply bond breaker tape along metal studs with board joints.



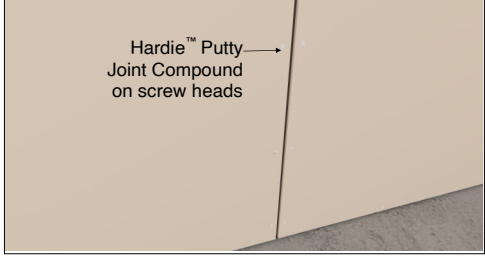
2

Layout the boards with gap equal to the thickness of the board in between.



3

Apply Hardie™ Putty Joint Compound on screw heads.



INSTALLATION GUIDELINES

**Timber Frame**  
Use only seasoned (kiln-dried) timber. Unseasoned timber is prone to shrinkage and may cause the frames to move. The minimum frame width at joist is 38mm.

**Steel Frame**  
Steel frame must be in the range of 0.5mm to 1.5mm BMT at minimum width of 38mm. Steel sections should be galvanized or zincalume.

**Preparation of Frame**  
Ensure that the frame is square and straight, and work from a central datum line. Frames must be straight to provide a flush face to receive the sheeting.

**Fastener**  
James Hardie recommends proper spacing of fastener at joints and noggings. Fasteners should be placed 12mm from the edge and 50mm from the corner.

Table 1: Frame & Fastener Spacing (mm)				
	Timber		Steel	
	Joist	Nogging	Joist	Nogging
Fastener	100	100	200	200
Paint Finish	610	1219	610	1219
Tiled Finish	406	1219	406	1219

For steel frames, use Hardie™ Drive Screw 20mm long. For timber frames, use (32mm x 2.3mm Hardie™ Drive Nails.

**Termination**  
When HardieFlex® NexGen™ boards are fastened adjacent to different material, leave a gap equal to the thickness of the board then fill the gap with PU sealant.

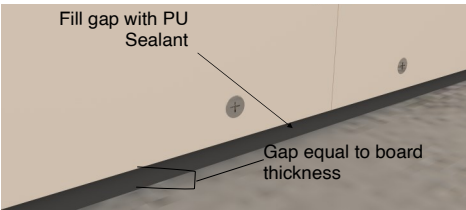


FIGURE 2: DETAIL AT TERMINATIONS

**Control Joints**  
Control joints are required in long runs of HardieFlex® NexGen™ boards in both directions.

Table 2: Maximum Span of Control Joints		
	Metal Thickness	Control Joint
Steel	0.5 to <0.80mm BMT	9m
	0.80 to 1.5mm BMT	6m
Timber		7.2m

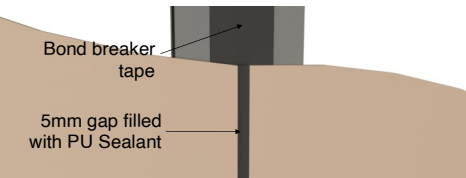


FIGURE 3: CONTROL JOINT DETAIL

**Window and Door Opening**  
Ensure board edges do not coincide with the side of the door or window opening by a minimum distance of 200mm. Where end joints occur, they should be fully supported by framing and coincide with the centerline of a studs, noggings or plate.

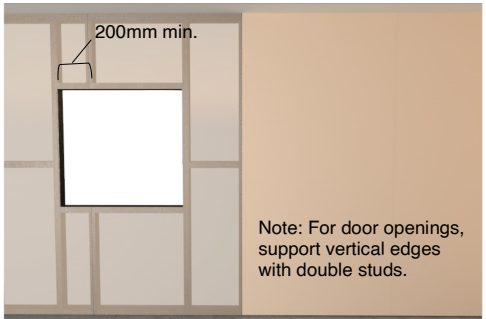


FIGURE 4: WINDOW OPENING DETAIL

**Internal/External Corners**  
Setting of internal corners is required for untiled applications. The procedure is as follows:

- If working conditions are warm and dry, dampen the area around the joint prior to working with clean cold water.
- Apply Hardie™ Putty Joint Compound to both sides of the corner using a 70mm broad knife.

- Fold Hardie™ Perforated Paper Tape to form an angle and embed into the corner.
- Apply another layer of Hardie™ Putty Joint Compound over the angle and smooth with the corner tool.
- Apply finishing layers as necessary to fully cover the tape.
- Allow each previous layer to dry first before putting in another layer.

#### **Jointing**

James Hardie recommends that all edges should be supported by a frame to give tidier and firmer result. Use factory-cut ends where possible.

#### **Painting**

Before application of any paint finish, remove any sanding dust and ensure the surface is ready for paint application. Refer to paint manufacturer for proper instructions on paint application. Coating should be completed within 1 month of sheet installation. Use only quality 100% acrylic/latex paints. Note: Use of 'sealer coat' or 'preparation undercoat' is recommended prior to applying at least two coats of latex paint.

#### **Glancing Light**

In some instances, due to glancing light, set joints may be noticeable in HardieFlex® NexGen™ boards, especially where paint finishes have a high gloss level. Work closely with your builder or designer to minimize this.

#### **Maintenance**

Cleaning and maintaining of the finished surface, joints, junctions, penetrations etc., must be carried out at regular intervals.



**JamesHardie™**