

# Solutions Outdoor Decking

**PRIMA**<sup>TM</sup> is a global leader in fibre cement building materials, manufactured in Malaysia.

Versatile and durable, **PRIMA**<sup>TM</sup> products can be applied to a wide array of construction styles one could imagine.

**PRIMA**<sup>TM</sup> products are produced as an advanced alternatives to conventional building materials.

# Introduction

## General

**PRIMAplank™ Decking** is an autoclave cellulose fibre reinforcement cement plank that manufactured by an ISO 9001 and ISO 14001 certified plant. The basic compositions are Portland cement, cellulose fibre, finely ground sand and water.

## Application

**PRIMAplank™ Decking** is specially designed for both internal and external multi-purpose applications. It helps to diminish the usual array of problems stemming from water, fungus, termite, fire and harsh weather.

## Features and Benefits

- Aesthetically appealing
- Durable
- Does not warp & shrink
- Environmental friendly
- Hazard Free
- Low Maintenance
- Mold Resistant
- Termite Resistant
- Resistant to Moisture (water permeability, warm water, soak dry & heat rain)
- Weather Resistant
- Comes with **PRIMADeck Concealed Fixing System (CFS)**



Wood Plastic Composite (WPC) decking, tendency to warp after exposed to heat & rain.

## Tests and Certifications

**PRIMAplank™ Decking** meets the national and international fibre cement standards, namely MS1296, ISO 8336, BS EN 12467, AS/NZS 2908.2 and ASTM C1186. It also meets the building material fire hazard Class O requirement.



## Properties

## Values

Product Composition	<ul style="list-style-type: none"> <li>• Top Grade Cellulose Fibre</li> <li>• Finely Ground Sand</li> <li>• Portland Cement</li> <li>• Water</li> </ul>
Nominal Density	EMC = 1390kg/m <sup>3</sup>
Moisture Content	EMC = 7% Saturation = 33%
Moisture Movement	0.08% (EMC to Saturated)
Minimum Bending Strength, MoR	Dry = 14MPa min ; Wet = 7MPa min
Average Modulus of Elasticity, MoE	Dry = 6GPa ; Wet = 4GPa
Fire Rating	Class O (BS 476 Part 6 & 7)
Fungus Resistance	Passed (ASTM G21)
Termite Resistance	Resistance to Damage (Field evaluation conducted by CSIRO)
Frost Resistance	Passed (AS/NZS 2908.2, MS 1296, ISO 8336, BS EN 12467, ASTM C1186)
Heat Rain Resistance	Passed (AS/NZS 2908.2, MS 1296, ISO 8336, BS EN 12467, ASTM C1186)



# PRIMA™ Outdoor Decking Solutions

**PRIMAplank™** Decking is the ideal replacement to timber floors as it eliminates the common issues encountered with conventional wooden decking.

**PRIMAplank™** Decking significantly reduces unsightly surfaces such as blackening, fading, warping or marring by gaps. It is non slippery as well.

Unlike timber building materials, **PRIMAplank™** Decking is resistant to termites attack, fire, water and harsh weather.

**PRIMAplank™** Decking is extremely accommodating and compatible with most surface coatings, giving you full control when choosing your preferred outlook and finishing.

## Applications

Pool Deck



Hardscape walkway



Benches



Bridges



Pathway



Gazebo



Saint-Gobain Prima Sdn Bhd offers not one but three decking solutions for your outdoor and indoor spaces. Choose any one of the solutions, and be amazed by the results. Elegant, sturdy, effortlessly.

### Solution 1

**PRIMADeck** Concealed Fixing System (CFS)



### Solution 2

**PRIMADeck** Groove



### Solution 3

**PRIMAplank™** Decking




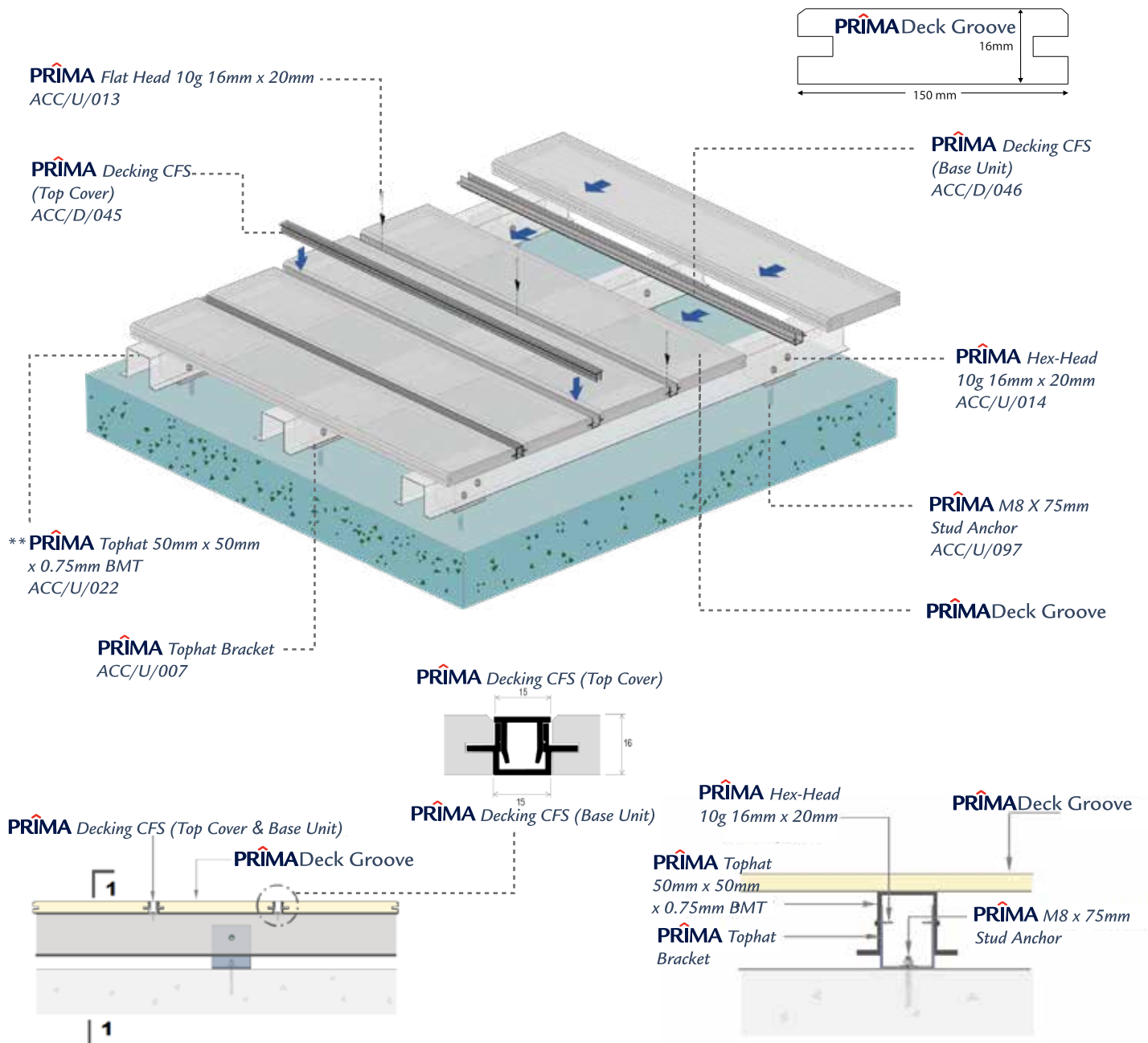
As with most modern contemporary designs, **PRIMA**Deck Concealed Fixing System (CFS) can be used as pool decking, dining platform for balcony or verandah, as well as at the porch for houses, buildings or high rise properties.

### Key Features :

- Each **PRIMA**Deck Concealed Fixing System (CFS) comes with slotted sleeving for seamless joints.
- Comes with a hidden or concealed fixing bracket and accessories, giving it a smooth and clean look.
- In between each deck planks, a fine metal strip **PRIMA Decking CFS (Top Cover)** is added to refine the gap giving it a seamless finishing.
- Recommended for interior or semi-external area that does not require any irrigation or surface water discharge.

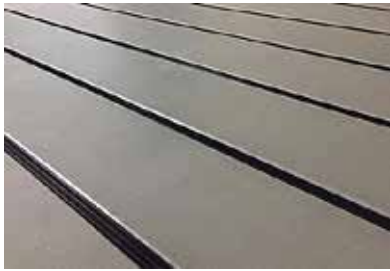
**PRIMA**Deck Concealed Fixing System (CFS) is compatible with any surface coatings, giving designers ample rooms to match the ideal colours and finishing.

Surface Texture	Edge Detail	Sheet Sizes (mm)			Approx. Mass (kg/m <sup>2</sup> )
		Width	Length	Thickness (mm)	
 Timbergrain	Chamfered V-Edge on both board edges with intermediate grooves	150	2440	16.0	22.24



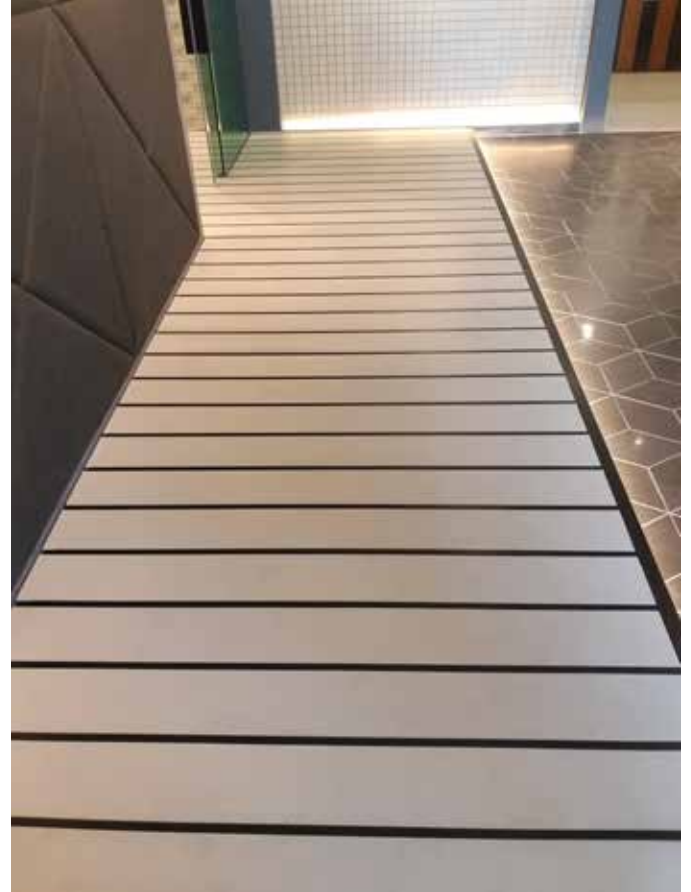
\*\* Available in other sizes and dimensions. Please refer to Saint-Gobain Prima Technical Team for the ideal recommendation





## PRIMA Decking CFS (Top Cover & Base Unit)

Aluminium Powder Coated (Black) Decking Strip fixed between each PRIMA Deck Groove at a gap of 15mm.



PRIMA Deck Concealed Fixing System (CFS) as interior flooring application finished with acrylic/epoxy coating. PRIMA Deck Groove looks good in weather resistant coating with any colour of choice.




PRIMA Deck Groove can be installed using 2 different types of fixing clips, each providing different gaps at 3mm or 10mm in between 2 decking planks.

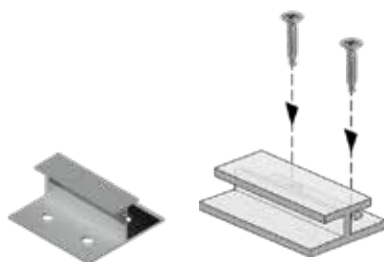
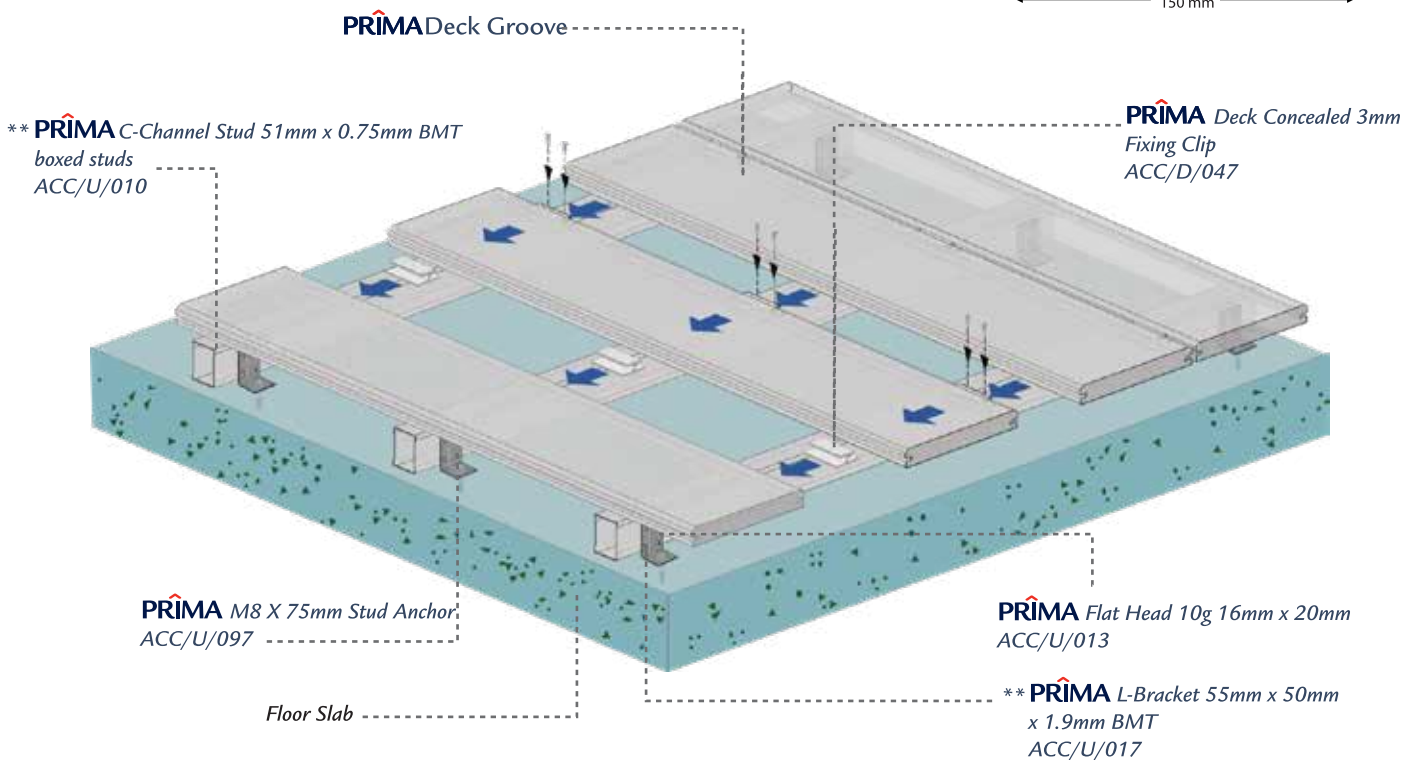
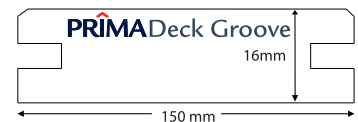
### Key Features :

- Narrow open gaps design in between deck planks (3mm or 10mm).
- Recommended for external use as these gaps help to discharge surface water (rain) efficiently.
- Each PRIMA Deck Groove comes with slotted sleeving (groove) for seamless joints.
- There will be no visible screw heads on top of the deckings.
- Complete accessories come with PRIMA Deck Concealed Fixing Clip for easy installation.
- Minimal maintenance required.

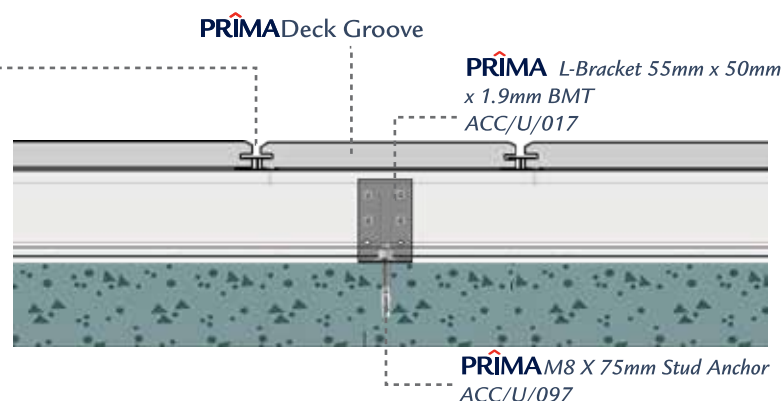
This application is suitable for indoor & outdoor pool decking, dining platform for balcony or verandah, as well as at the porch for houses, buildings or high rise properties.

Surface Texture	Edge Detail	Sheet Sizes (mm)			Approx. Mass (kg/m <sup>2</sup> )
		Width	Length	Thickness (mm)	
 Timbergrain	Chamfered V-Edge on both board edges with intermediate grooves	150	2440	16.0	22.24

### Type A : 3mm Concealed Fixing Clip



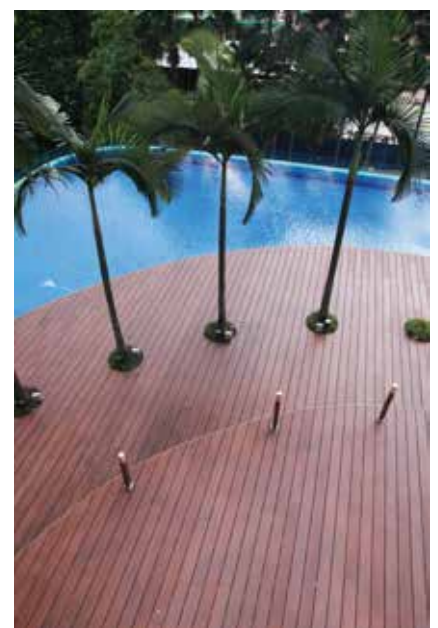
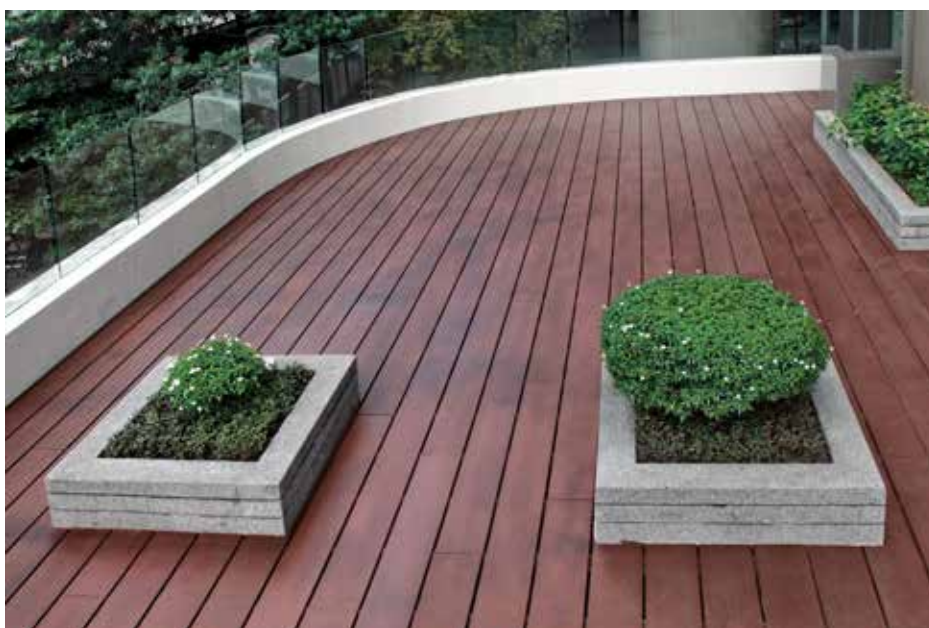
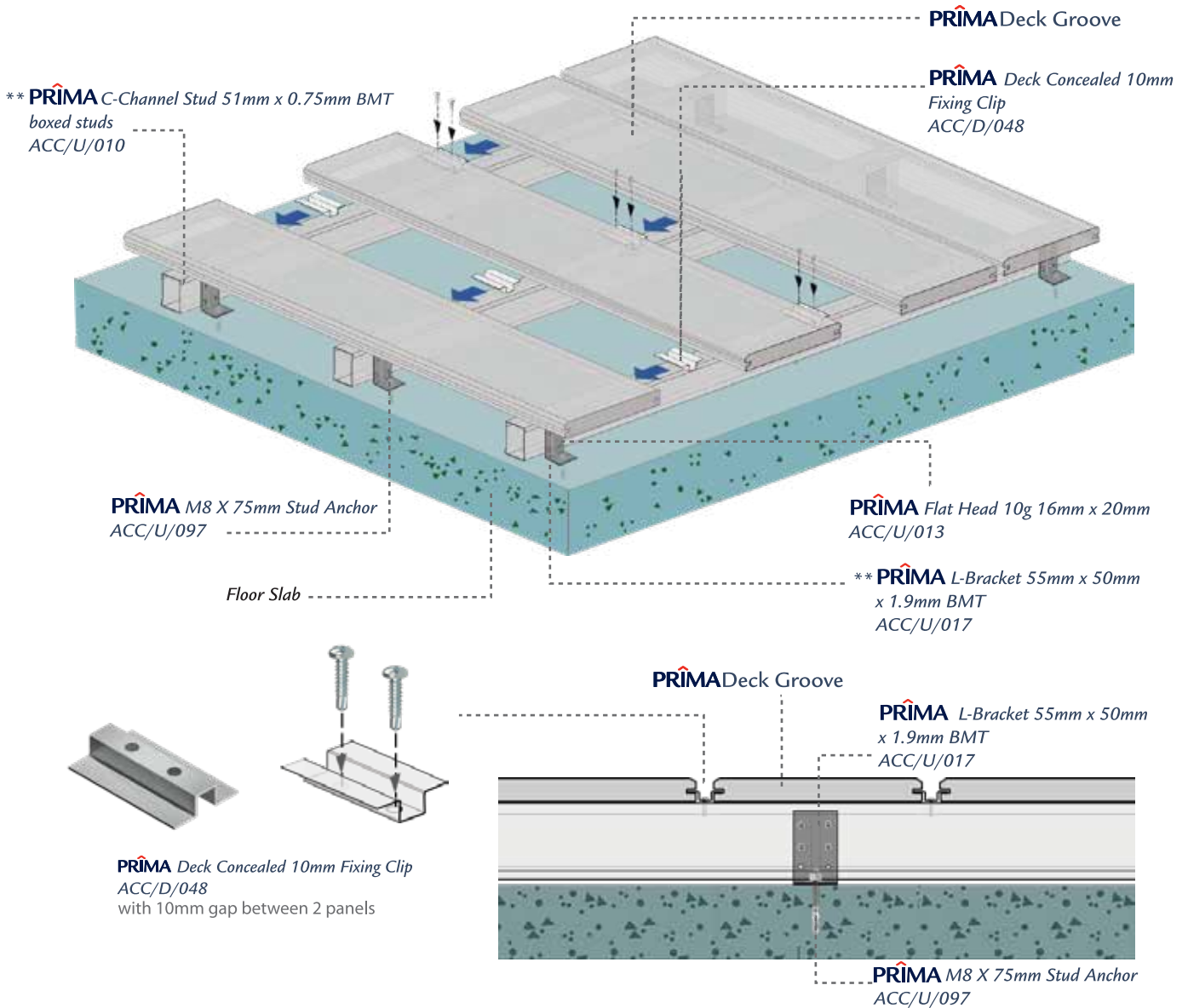
**PRIMA Deck Concealed 3mm Fixing Clip** ACC/D/047 with 3mm gap between 2 panels



\*\* Available in other sizes and dimensions. Please refer to Saint-Gobain Prima Technical Team for the ideal recommendation



*Type B : 10mm Concealed Fixing Clip*




\*\* Available in other sizes and dimensions. Please refer to Saint-Gobain Prima Technical Team for the ideal recommendation

PRIMAplank™ Decking provides a traditional timber grain decking looks with exposed screw heads. PRIMAplank™ Decking comes without groove.

### Key Features :

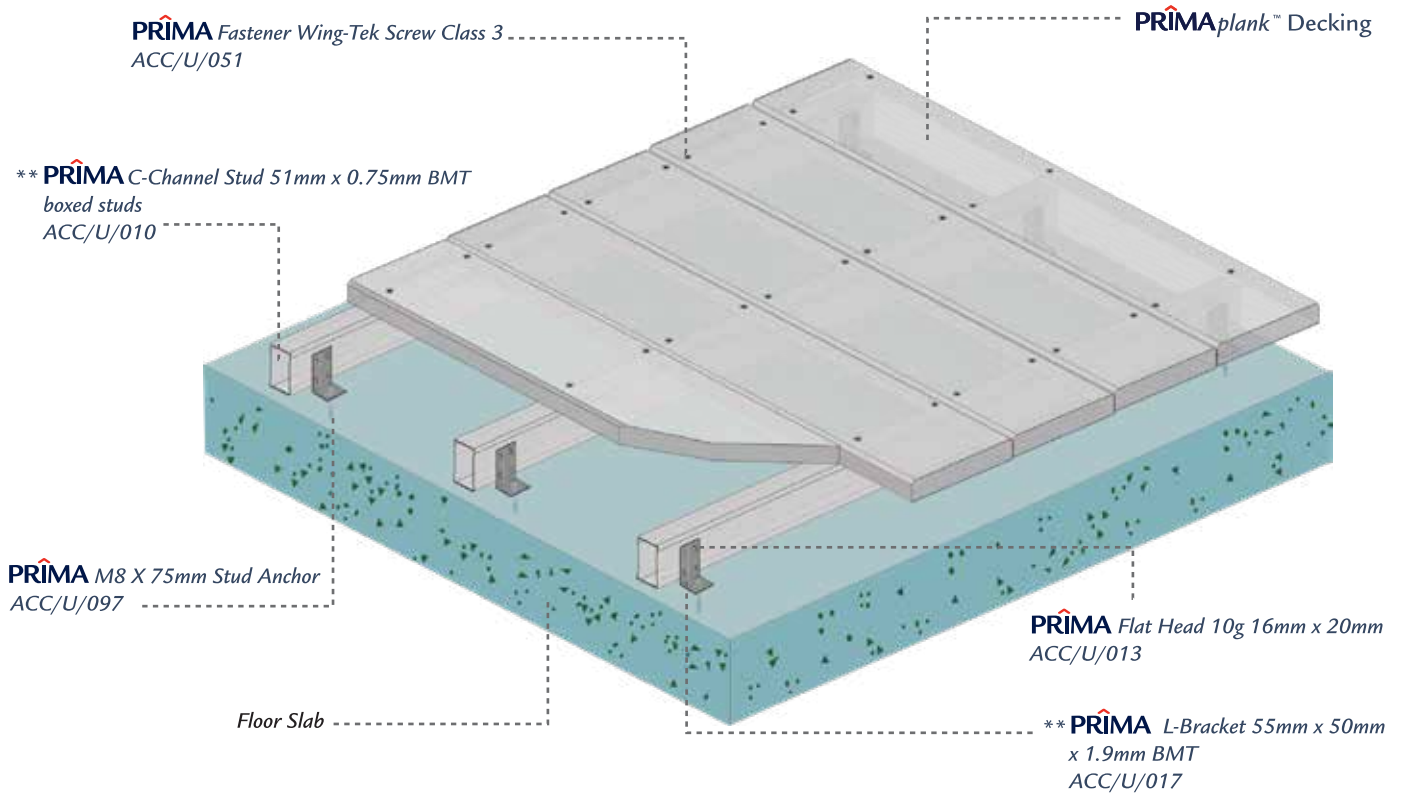
- Fixed directly onto the sub-frames using rust resistant fastener **PRIMA Fastener Wing-Tek Screw Class 3.**
- Provides fixing flexibility (open gaps).
- No slotted sleeving at every PRIMAplank™ Decking; suitable for conventional decking installation method using various types of fasteners (i.e: Bolts & Nuts).

This application is suitable for indoor & outdoor pool decking, dining platform for balcony or verandah, as well as at the porch for houses, buildings or high rise properties.

Surface Texture	Edge Detail	Sheet Sizes (mm)		Thickness (mm)
		Width	Length	
 Timbergrain	2-Sided V-Edge	150	3660	16.0



\*Custom size is available subject to MOQ requirements, contact our sales representative for more information.



**PRIMA Fastener Wing-Tek Screw Class 3**  
32mm ACC/U/051



An option to use stainless steel decking screws & bolt nuts for jetty & bridge application

\*\* Available in other sizes and dimensions. Please refer to Saint-Gobain Prima Technical Team for the ideal recommendation





## Installation **PRIMA**™ Deck Concealed Fixing System (CFS)

**PRIMA**plank™ Decking planks must be dry and moisture-free during the installation.

- 1) Conduct ground surface levelling to determine the intended level of the **PRIMA**plank™ Decking .
- 2) Mark the position of the C-channel or Top-Hat (refer to Saint-Gobain Prima Technical Team for the spacing recommendation). Note that the position of the framing has to be perpendicular to the intended **PRIMA**plank™ Decking laying orientation.
- 3) **Option 1- For Top-Hat batten** **PRIMA** Tophat 50mm x 50mm x 0.75mm BMT :  
Place the Top-Hat at the marked position and use Top-Hat bracket to secure the frame at every 1220mm max. centre-to-centre.
- 4) **Option 2 - For C-Channel stud joists** **PRIMA** C-Channel Stud 51mm x 0.75mm BMT :  
Place the C- Channel at the marked position and use metal L-Angle bracket to secure the frame at every 1220mm max. centre-to-centre on the alternate side of C-Channel.



EPDM foam strip (self-adhesive) can be added to reduce the dampening sound.



Recommendation: Install polystyrene sheets or EPDM foam strip in between sub-frame (studs/top-hat) and **PRIMA**plank™ Decking planks as sound damper.

- 5) Ensure the framings are reasonably flat and level before the installation of **PRIMA**plank™ Decking .
- 6) Place the 1st **PRIMA**Deck Groove onto the frame followed by **PRIMA** Decking CFS (Base Unit) strips base unit placed onto the groove.
- 7) Fasten the **PRIMA** Decking CFS (Base Unit) to framing joist using **PRIMA** Fastener – 13mm Waffle-Head screws or equivalent.
- 8) After installing **PRIMA** Decking CFS (Base Unit) , place the **PRIMA**Deck Groove accordingly to fit both of the side grooves with the Base-Unit.
- 9) Install the **PRIMA** Decking CFS (Top Cover) to conceal the fasteners (Snap-on method).
- 10) Refer to Figure 1-6 for Top-Hat batten framing and board installation guide and specification. (Option 1)
- 11) Refer to Figure 7-9 for C-Channel framing and board installation guide and specification. (Option 2)



# Installation **PRIMA**™ Deck Concealed Fixing System (CFS)

Refer to Figure 1-6 for **Top-Hat** batten framing and board installation guide and specification. (Option 1)



Figure 1 : Place the **PRIMA** *Tophat 50mm x 50mm x 0.75mm BMT* at the marked position and secure the frame. Lay a layer of polystyrene sheet as sound insulator on top of the frames.

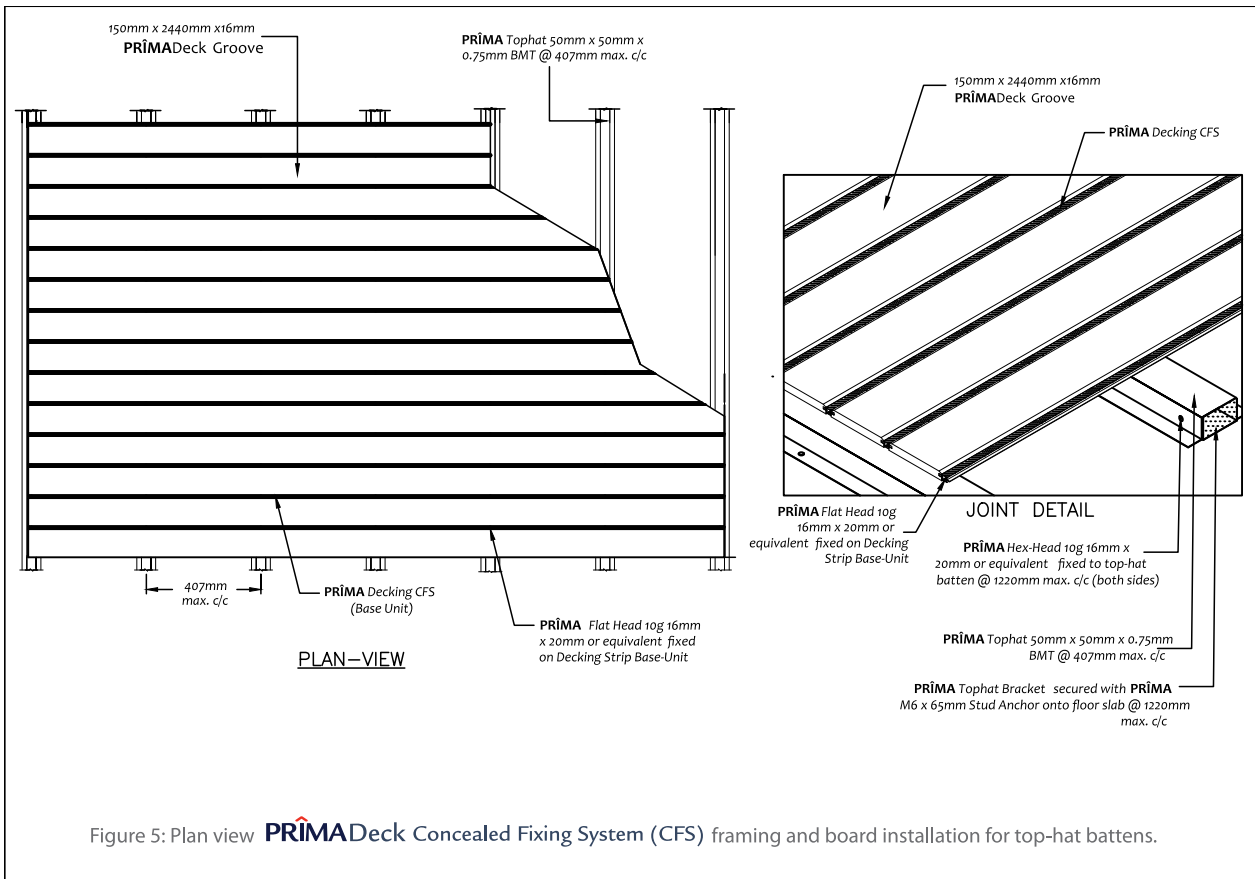
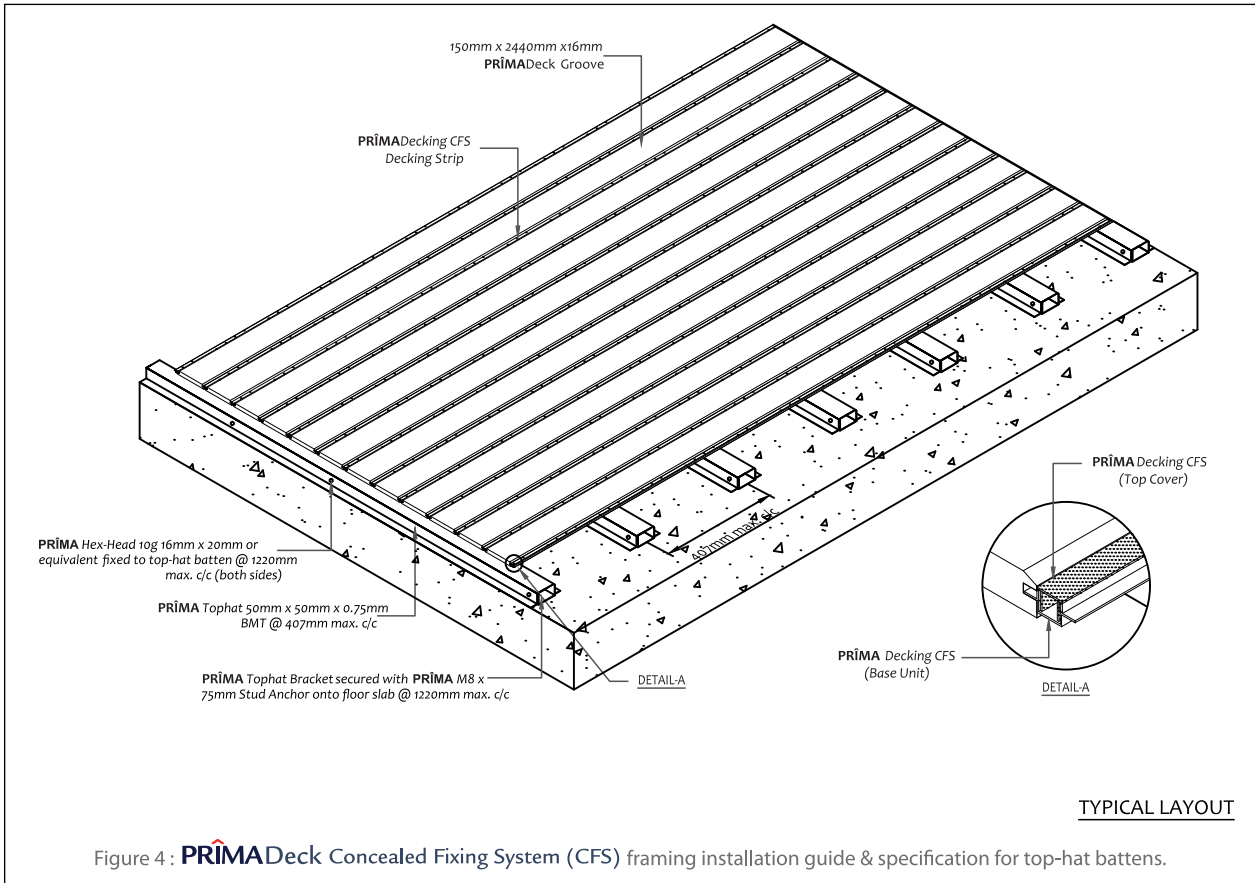


Figure 2 : Fasten the **PRIMA** *Decking CFS (Base Unit)* to framing joist using **PRIMA** *Fastener*.



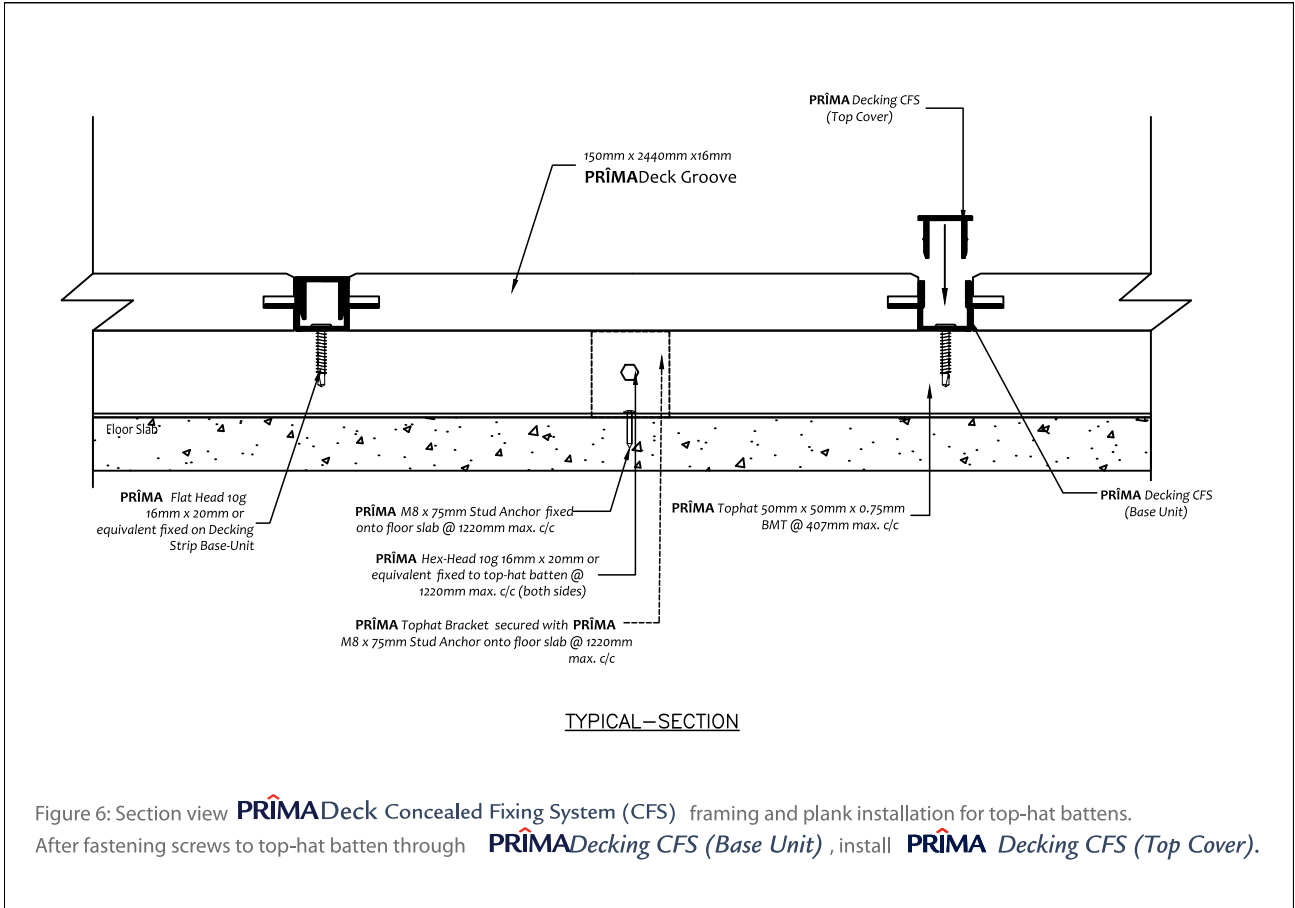
Figure 3 : Install the **PRIMA** *Decking CFS (Top Cover)* to conceal the fasteners (Snap-on method).

# Installation PRIMA™ Deck Concealed Fixing System (CFS)

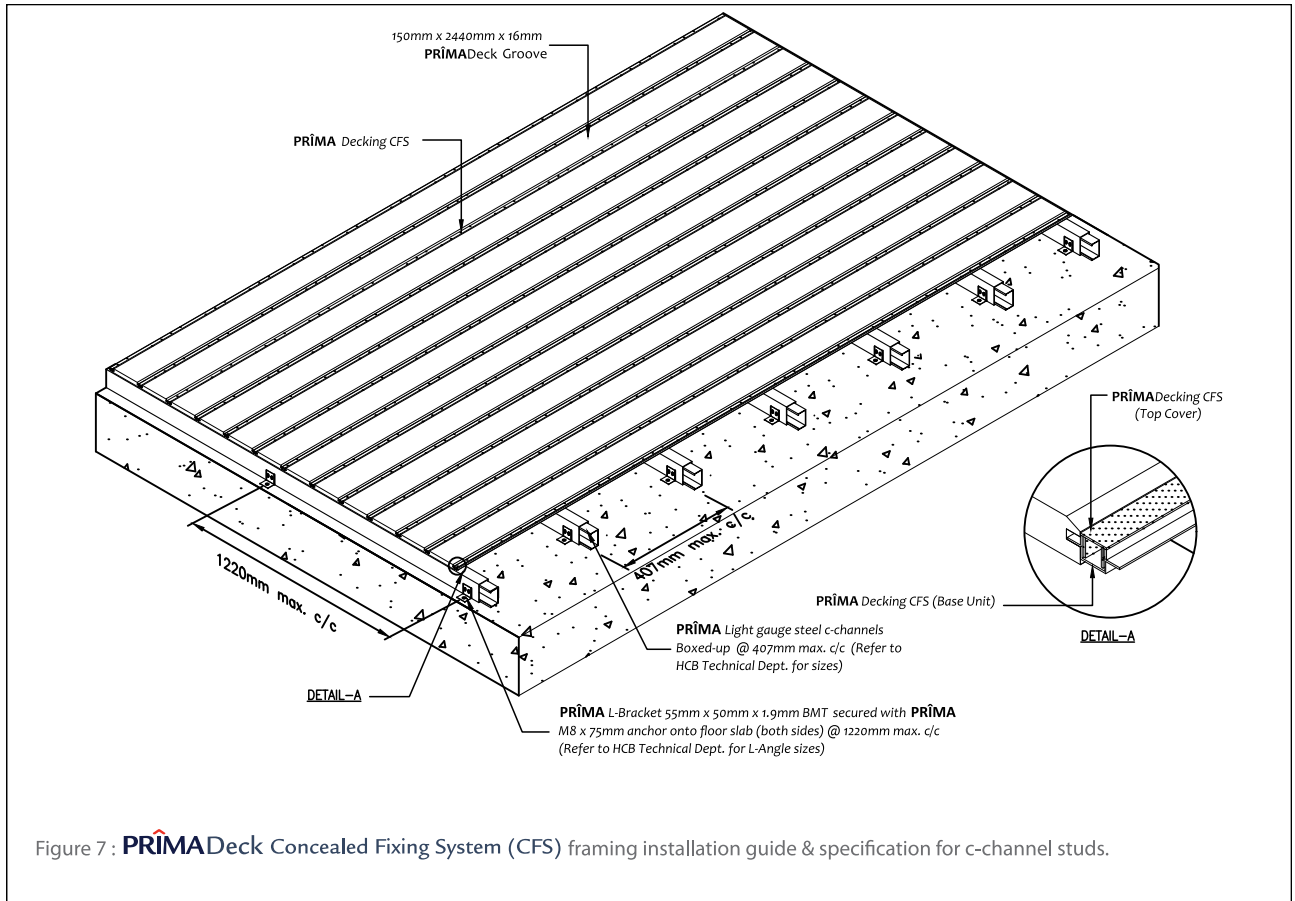




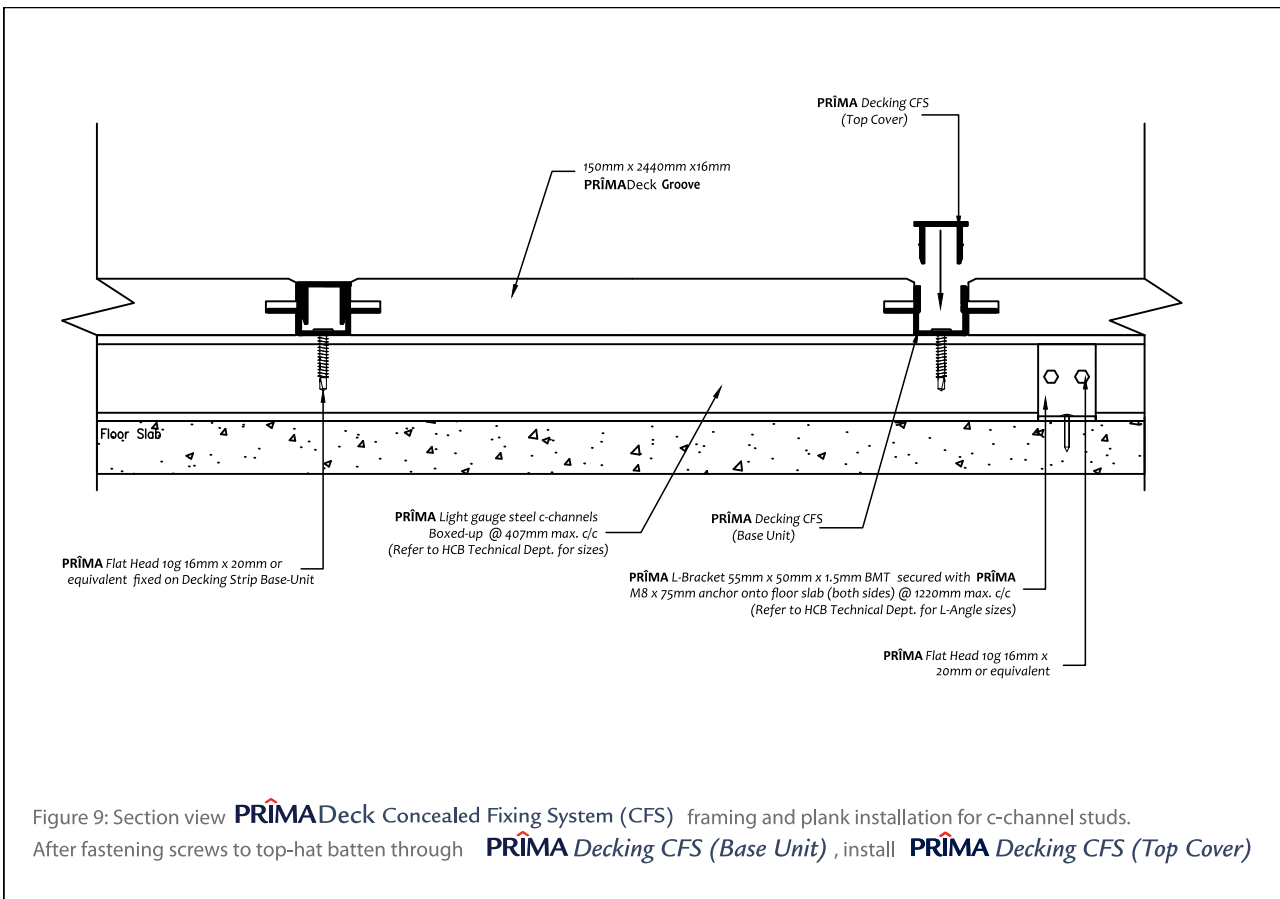
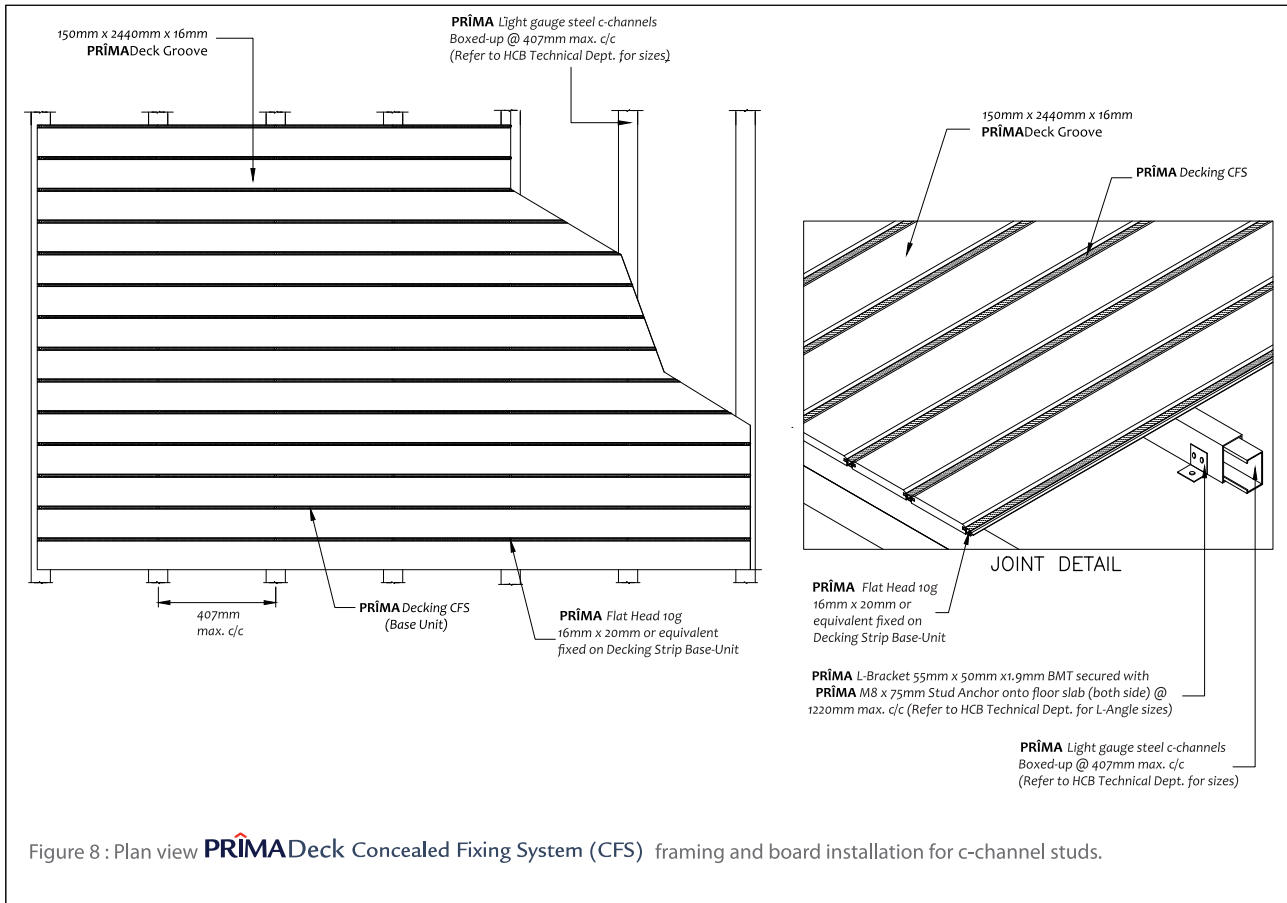
# Installation PRIMA™ Deck Concealed Fixing System (CFS)



Refer to Figure 7-9 for C-Channel framing and board installation guide and specification. (Option 2)



# Installation PRIMA™ Deck Concealed Fixing System (CFS)





# Decking Finishes and Working Instruction

## Decking Finishes

Before applying any surface coatings, ensure the plank surfaces are dry, smooth and free from dust, grease or any contaminant. Similar to other wet applications, it is highly recommended to apply water-based acrylic coating in accordance to paint manufacturer's recommendation and advise.

*Disclaimer: Surface coating finish quality, outcome, performance & maintenance requirements depending on the type of coating chosen (by others)*



Spray Painting



Roller Painting

## Working Instruction

### Safety first

Wear proper PPE before start working.

Make sure all tools are in good, safe and functioning condition.

### Cutting

Cutting works should be carried out in a well-ventilated area using angle grinder with diamond tip/tungsten carbide blade.



SCAN ME



PRIMAplank™ Decking  
installation video

### Handling and Storage

PRIMAplank™ Decking must be stacked on the flat ground and supported with level bearers prior to installation. Ensure all timber bearers of the stacked sheets are properly aligned with other stacks. Improper sheet stacking may result in permanent plank deformation that causes unsightly appearance such as unevenness.

PRIMAplank™ Decking must always be kept dry, preferably stored under a protected shade. When stored outdoors, it must be protected from water ingress and weather with tarpaulin sheet as cover. Leave any wet plank to dry to equilibrium under a natural ventilated condition prior to installation.

### Allowable imposed loading

Please refer to Saint-Gobain Prima technical team for more information.



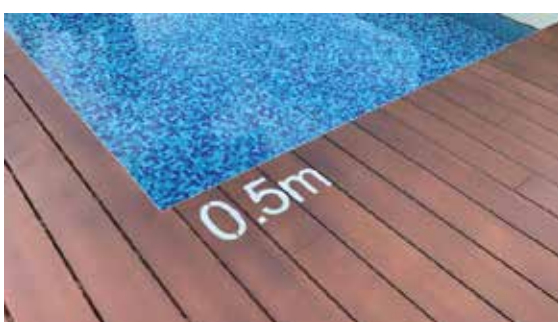
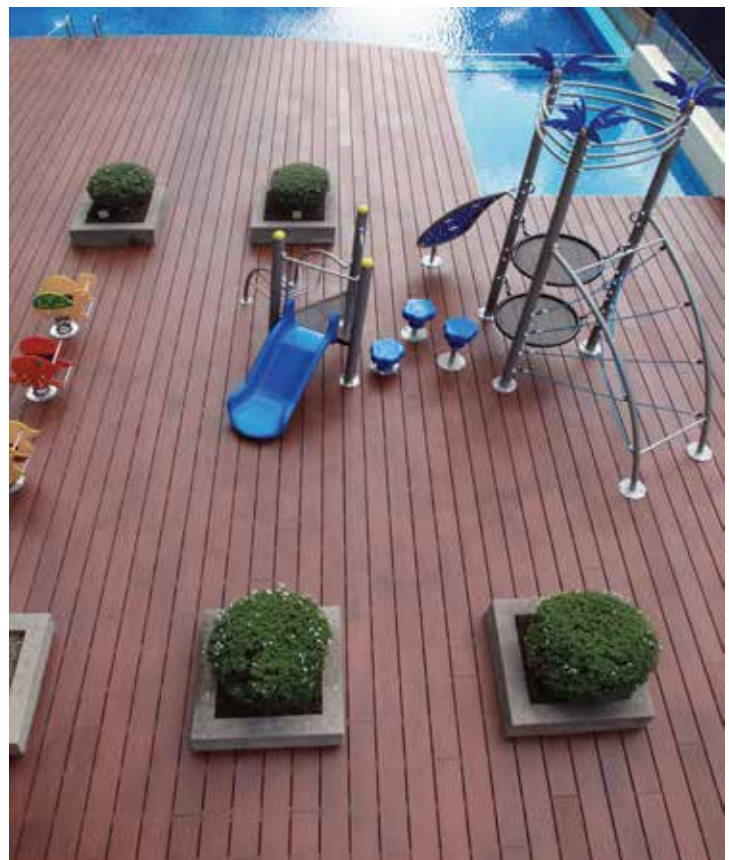
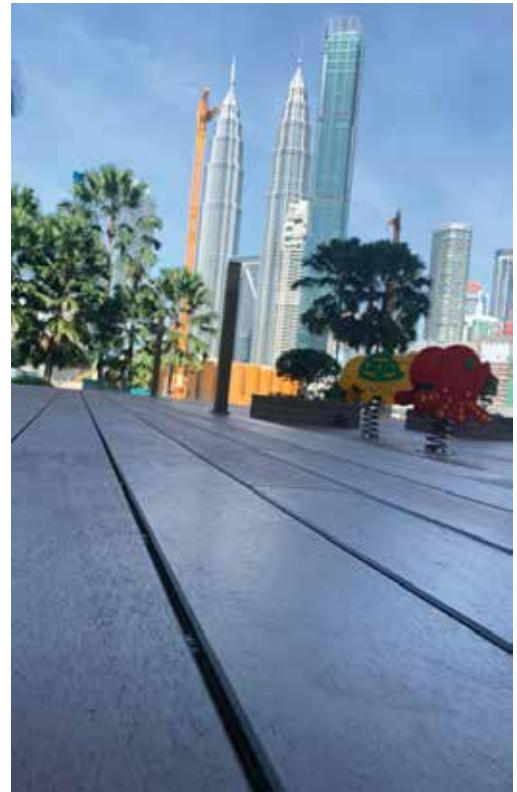
# Maintenance

## Stain

Use mild detergent with water to wash and wipe away any stains on the painted deck surface. **DO NOT** use alcohol based cleaner.

## Cleaning

Do not use pressure water jet to wash the surface of the **PRIMAplank™** Decking to prevent the coatings from peeling off and excessive water penetration beneath the planks.



## Best Practices

- ✓ Prior to installation, inspect and ensure that the deck base or structure are constructed with subtle gradient or slope. The gradient/slope will significantly reduce common issue such as water ponding with its self-draining ability. Water flowing from the higher side of the slope will help to keep the surface dry and clean at the same time, making maintenance works easier.
- ✓ Solution 1: It is advisable to seal off any gaps on the edges of **PRIMA Decking CFS (Base Unit)** to prevent any water ingress into the aluminium channel.
- ✓ Solution 3: Small gaps between **PRIMAplank™ Decking** are necessary for better water drainage and also to allow thermal expansion.
- ✓ Avoid area with stagnant water when constructing the deck base frame in order to prevent constant water and moisture attack on the structure.
- ✓ DO NOT sink the **PRIMA Fastener** too deep into **PRIMAplank™ Decking** as it will create water ponding effect on the **PRIMA Fastener's** head that can lead to corrosion. Ideally **PRIMA Fastener** are to be fixed 0.5mm below the deck surface.
- ✓ Cutting **PRIMAplank™ Decking** or **PRIMADeck Groove** should be carried out at open space.

## For your safety

- ✓ Always work in a well-ventilated area.
- ✓ Dust extraction equipment should be fitted to all power cutting tools.
- ✓ Wear safety goggles.
- ✓ Wear protective clothing.

## Warning

Breathing dust from silica based products such as fibre cement can be hazardous over an extended period of time. Always use a mask, protective equipment and clothing that complies with the latest regulations of Occupational Safety and Health (OSH) or Workplace Health and Safety.





## PRIMA Flat Head 10g 16mm x 20mm ACC/U/013

Specifications : No #10 x 20mm  
Quantity : 1000 pcs/box  
Category : Fastener



Application : To secure angle cleat onto the steel member

## PRIMA Fastener Wing-Tek Screw Class 3 (32mm/44mm) ACC/U/051

Specifications : 32mm/44mm  
Quantity : 1000 pcs/box  
Category : Fasteners



Application : Decking

## PRIMA Hex-Head 10g 16mm x 20mm ACC/U/014

Specifications : No #10 x 20mm  
Quantity : 1000 pcs/box  
Category : Fastener



Application : To secure angle cleat onto the steel member

## PRIMA M8 X 75mm Stud Anchor ACC/U/097

Specifications : M8 x 75mm Stud Anchor  
Quantity : 100 pcs/box  
Category : Anchor / Fastener



Application : Universal for floors / walls

## PRIMA C-Channel Stud 51mm x 0.75mm BMT ACC/U/010

Specifications : 51mm x 0.75mm BMT x 3000mm  
Quantity : 100 pcs/pack  
Category : Primary section



Application : Walls / Floors / Ceilings

## PRIMA L-Bracket 55mm x 50mm x 1.9mm BMT ACC/U/017

Specifications : 55mm x 50mm x 1.9mm BMT  
Quantity : 80 pcs/box  
Category : Angle cleat



Application : Universal. To hold steel frame onto structure

## PRIMA Tophat 50mm x 50mm x 0.75mm ACC/U/022

Specifications : 50mm x 50mm x 0.75mm BMT  
Quantity : 120 pcs/pack  
Category : Secondary section



Application : Universal / Floor joist, cladding

## PRIMA Tophat Bracket ACC/U/007

Specifications : 80mm x 46mm x 50mm (max)  
Quantity : 60 pcs/box  
Category : Floor joist / Cladding



Application : Secondary section connector to primary frame

## PRIMA Decking CFS (Top Cover) ACC/D/045

Specifications : Aluminium Powder Coated (Black)  
Decking Strip Top-Cover 15mm (Gap)  
3000mm (L)  
Quantity : 20 pcs/box  
Category : Strip Top Cover



Application : Decking

## PRIMA Decking CFS (Base Unit) ACC/D/046

Specifications : Aluminium Powder Coated (Black)  
Decking Strip Base-Unit  
3000mm (L)  
Quantity : 20 pcs/box  
Category : Strip Base Unit



Application : Decking

## PRIMA Deck Concealed 3mm Fixing Clip ACC/D/047

Specifications : Conceal 3mm (Gap) Decking Fix Clip  
3000mm (L)  
Quantity : 200 pcs/box  
Category : Fasteners



Application : Decking

## PRIMA Deck Concealed 10mm Fixing Clip ACC/D/048

Specifications : Conceal 10mm (Gap) Decking Fix Clip  
3000mm (L)  
Quantity : 200 pcs/box  
Category : Fasteners



Application : Decking

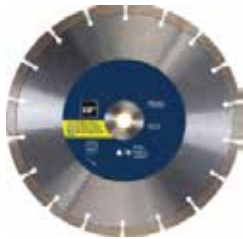
## Recommended Tools for Installation

Hume Cemboard Industries recommends the following tools when installing **PRIMA**™ System.



### Angle Grinder or Circular Saw

Power tool for easy cutting of **PRIMA**plank™ Decking board and **PRIMA** Decking CFS (Top Cover and Base Unit).



### Diamond-tip circular blade

To ensure smooth cut for **PRIMA**plank™ Decking board.



### Aluminum Cutter Blade

To ensure smooth cut for **PRIMA** Decking CFS (Top Cover and Base Unit).



### Spirit Level

Leveling tool to ensure the framing is at reasonable flatness before **PRIMA**plank™ Decking installation.



### Cordless power drill

Power tool to drive the fastener onto **PRIMA**plank™ Decking to joist or securing **PRIMA** Decking CFS (Base Unit) onto joist.

Note : ALWAYS follow tool manufacturers' safety recommendations.



PPS (BAHAN BINAAN)  
No. Perakuan: A004008  
A005397



Certified to MS 1296 : 2010  
Certification No. PH000805  
PH000614



Certified to ISO 9336 : 2009  
Certification No. PH000613



Certified to BS476 Part 6 & 7  
Certification No. LH000601  
LH000603



BAHAN KELAS 'O'  
BS 476 - PART 6 : 1989  
BS 476 - PART 7 : 1997



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Licence No.  
ELH0000001



MyHP00175/16



041-029-1206  
MADE FROM RECYCLED MATERIALS



Certified to ISO 9001 : 2015  
Certification No. QMS 00214  
QMS 00333



Certified to ISO 14001 : 2015  
Certification No. EMS 00481



ASTM  
C1186

Fire Resistance  
AS 1530.3

Termite Resistance -  
tested by CSIRO



BS EN 12467



BRANZ Appraised  
Appraisal No.635 (2019)



Termite Resistant



Fire Resistant



Water Resistant



Weather Resistant



100% Asbestos free



Superior Paint  
Adhesion



High Workability



Aesthetically  
Pleasing



50 Years  
Durability

For more information, please contact us at:



**SAINT-GOBAIN PRIMA SDN BHD** (579898-W)

Level 19, Tower 5, Avenue 7 The Horizon,  
Bangsar South City, No. 8, Jalan Kerinchi,  
59200 Kuala Lumpur, Malaysia

General Line 1: +603 7781 1977 | General Line 2: +6012 781 1797

[www.primafibrecement.com](http://www.primafibrecement.com) | [www.saint-gobain.my](http://www.saint-gobain.my)

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