ACCEL™

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TECHNICAL SUPPLEMENT

Gas Stove Splashback Product Selection Guide

Research and Product Development from James Hardie®

The information in this supplement and James Hardie's technical literature is only intended for use in relation to the relevant James Hardie products.

CERTIFIED ACCEL™ CONTENT

INTRODUCTION

Walls are subjected to increased heat when in close distance to gas stove tops. Failure to do so can cause excessive heat transferring through the splashback to an unprotected substrate or timber framing behind them. This can easily result in damage to the linings and substrate.

COMMON MISCONCEPTION

Installing non-combustible linings over the walls such as such as glass or steel does not necessarily prevent increase of surface temperature of nearby combustible elements (e.g. timber frame). These materials do conduct heat which can affect substrates behind it.

For compliance, the surface temperature of these elements must not be greater than 65°C.

WHAT DO I DO?

The Australian/New Zealand Standard 5601.1: 2013 – Gas installations Part 1: General installations, covers the installation of gas appliances, which includes stoves. It identifies areas with risk of combustion and outlines requirements to deal with this risk.

This technical supplement is a guide for designers, builders and installers in the compliant contruction of splashbacks.

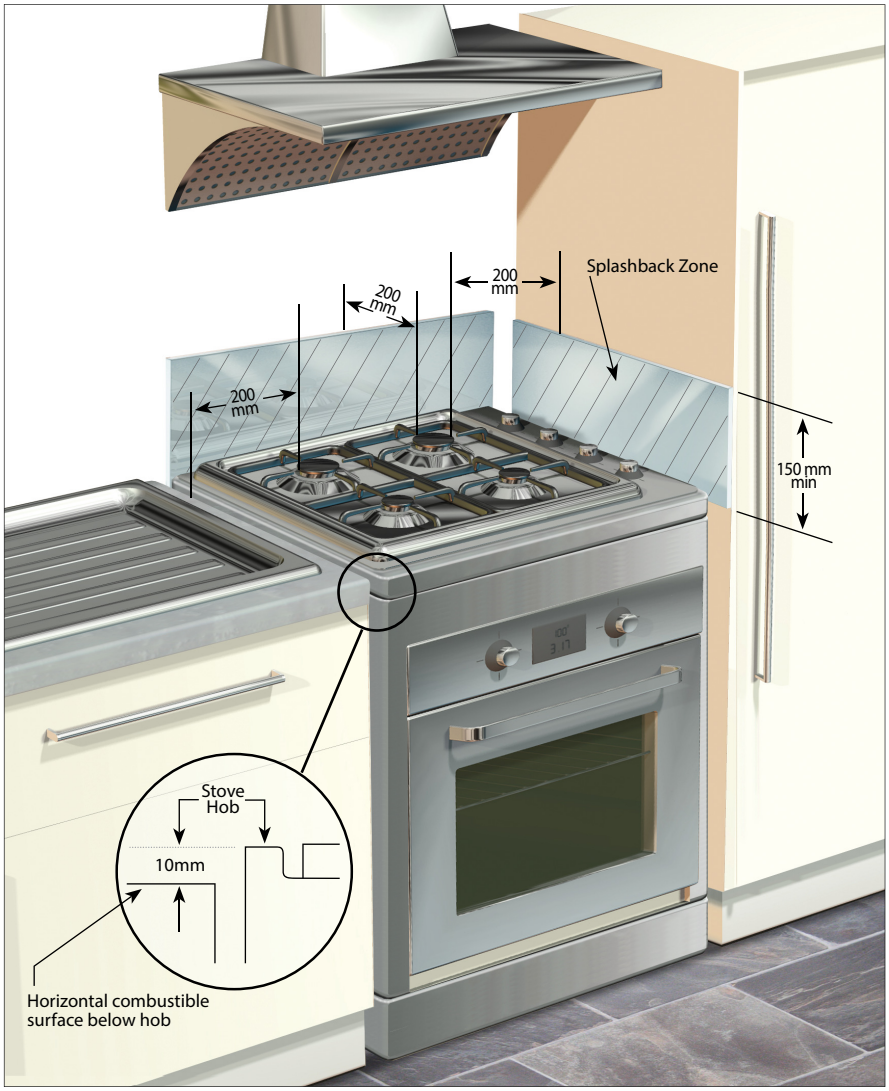

FIGURE 1: SPLASHBACK CLEARANCES

The following tables provide suitable splashback construction solutions to comply with the AS/NZS 5601.1:2013 when the gas burner is within a certain distance to a combustible surface.

TABLE 1: Gas Burner Edge Located Greater Than 200mm From Combustible Surface

WALL LINING MATERIAL	MINIMUM THICKNESS (MM)	FACING MATERIAL	MINIMUM THICKNESS (MM)
Villaboard® lining	6mm	N/A	N/A
ARChitectural™ Invibe™ panel	6mm	N/A	N/A

NOTE: All other James Hardie® internal linings may be used. Refer to paint manufacturer suitable painting specification. It is not recommended that cookware come into direct contact with any James Hardie lining products.

TABLE 2: Gas Burner Edge Located Less Than 200mm From Combustible Surface

WALL LINING MATERIAL	MINIMUM THICKNESS (MM)	FACING MATERIAL	MINIMUM THICKNESS (MM)
Villaboard® Lining	6mm	Ceramic Tiles	6mm
Villaboard® Lining	6mm	Toughened Safety Glass (compliant with AS/NZS 2208)	6mm
Villaboard® Lining	12mm	Sheet Metal	0.4mm
Villaboard® Lining over 10mm gypsum-based wall board	6mm	Sheet Metal	0.4mm

NOTE: An increased thickness of Villaboard® lining may be required based on tile/facing thickness. Refer to the current Villaboard® lining

ADDITIONAL CONSTRUCTION REQUIREMENTS

When a gas burner is less than 200mm from a combustible surface:

- The splashback must cover the width of the cooking surface area and a minimum height of 150mm. The 'cooking surface area' is defined as that part of the gas appliance where cooking normally takes place and does not include those parts of the gas appliance containing control knobs.
- Adjacent horizontal combustible surfaces must be a minimum 10mm below the hob or above the trivet. The trivet is the metal grids that support cookware. Refer to Figure 1 above.

Consideration is to be given to window treatments and painted surfaces on glass splashbacks when located near cooking appliances. This inludes consideration on how any coatings or paints may react to the applied heat by a nearby gas cooktop.

Always ask the building certifier or gas fitter if there are any state or local government authority requirements that need to be met.

This article is intended to provide general information in summary form and is not in any way a replacement of AS/NZS 5601.1:2013. Refer to relevant codes and practices for any additional construction requirements not covered in this document.

For more information visit our website
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All James Hardie® products must be installed and maintained in accordance to the current, relevant technical literature.