



PRIMAalpha Groove Installation Guide



AUGUST 2021

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NZBN 9429000097253

PRIMAalpha Groove Product Details			
L x W x Thickness (mm)	Weight (kg)	IBS Product Code	GTIN
2400 x 1200 x 7.5	30	PRIMAV072412	09421028769464
2700 x 1200 x 7.5	33.8	PRIMAV072712	09421028769471

Contact us for more information or to talk to our team.

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1. Introduction

This document is intended for designers and installers to ensure IBS PRIMAalpha Groove sheets are specified and installed correctly.

1.1 What is PRIMAalpha Groove?

PRIMAalpha Groove is 7.5 mm thick fibre cement sheet with a 2.5 mm deep, 5 mm wide V-shaped groove, at 100 mm centres, which replicates a traditional tongue and groove style panelling.

Sheets are 1200 mm wide, 2400 mm or 2700 mm long. It is manufactured from Portland cement, finely ground sand, softwood cellulose fibres, additives, and water.

Manufactured to conform to the requirements AS/NZS 2908.2: 2000, it is classified as Type B, Category 3.

PRIMAalpha Groove can be used as an internal wall lining, or as an eave and soffit cladding providing it will not be directly exposed to the weather.

1.2 Benefits of PRIMAalpha Groove

PRIMAalpha Groove is a high performance cellulose fibre cement sheet manufactured with sand, cement, cellulose fibre and additives. It is one of the most resistant materials there is for your exterior and interior.

Key attributes and benefits:

- Durability and long lifetime
- Moisture damage and impact resistant
- Environmentally friendly materials
- Excellent strength and toughness

- Waterproofing and fireproofing (non combustible)
- Not prone to warping or cracking
- Good acoustic insulation and weather resistance
- Good thermal and heat insulation
- Low maintenance

1.3 PRIMAalpha Groove Intended Use

PRIMAalpha Groove is intended for use in internal or external applications where it is not directly exposed to sun, rain and/or snow.

IBS supplies PRIMAalpha Groove sheets for use as an external soffit and eave lining or an internal lining.

1.4 Scope of Use

IBS supply PRIMAalpha Groove for use within the following scope:

- In wind zones up to and including extra high as defined in NZS3604:2011 or to a wind design pressure (ULS) of 2.5kPa.
- In conjunction with a primary structure that complies with the NZ Building Code or where the designer and/or installer have satisfied themselves that the existing structure is suitable for the intended building work.
- As an external soffit and eave lining.
- As an internal lining.

1.5 Limitations

For scope and limitations refer to PRIMAalpha Groove pass™ on www.ibs.co.nz.

1.6 Supporting Information for PRIMAalpha Groove

Contact info@ibs.co.nz for more help or technical assistance.

While all reasonable efforts have been made to ensure the accuracy of information provided, this document is a guide only. It may be subject to change.

When applying for a building consent, include the following documents:

- PRIMAalpha Groove pass™
- PRIMAalpha Groove Warranty Guidelines
- PRIMAalpha Groove Installation Guide.

2. Best Practice

2.1 Skills Required

The design and installation of PRIMAalpha Groove requires, at a minimum, a competent DIYer who can determine whether the project falls within the specified scope of use.

2.2 Health & Safety

Take all necessary steps to ensure your safety and the safety of others:

- Cut sheets in a well-ventilated area. Do not wet the sheet or saw blade during the cutting process. It is recommended that power tools fitted with dust extracting attachments are used.
- Use mechanical ventilation wherever possible.
- Wear an approved dust mask and safety goggles when cutting, drilling or grinding sheets.
- Ensure the PRIMAalpha Groove sheets are well supported when cutting.
- Wear appropriate personal protective equipment (PPE).
- Use all tools in accordance with relevant instruction manuals.
- Clear the work area of any obstructions before work starts.

For further information refer to:

- WorkSafe - [Absolutely Essential Health and Safety Toolkit](#)
- WorkSafe - [Health and Safety at Work, quick reference guide.](#)

These documents are available at www.worksafe.govt.nz.

2.3 Handling & Storage

Take care when transporting, handling, and storing the PRIMAalpha Groove sheets to prevent damage to them.

PRIMAalpha Groove sheets should be unloaded by hand, sheets carried vertically, on-edge, and lengthwise.

To store, stack PRIMAalpha Groove sheets on a flat, dry surface, supported by evenly spaced bearers at (maximum) 600 mm centres. Back-to-back and

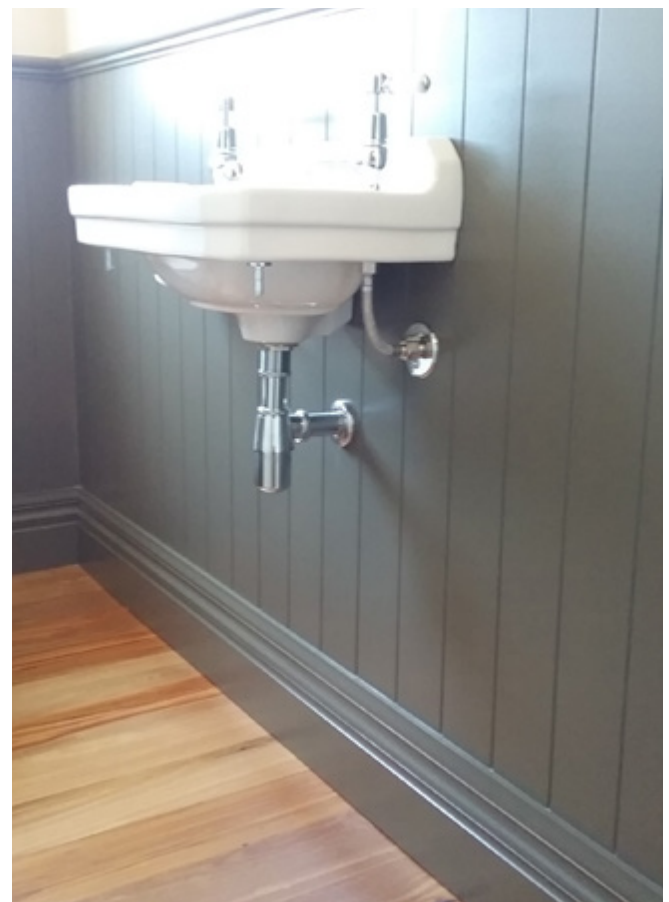
face to face stacking is recommended to reduce scratching and minor damage to the finished face of the sheets. Ensure the sheets are clear from the ground to avoid damage or absorption of moisture.

PRIMAalpha Groove sheets should be covered and stored in an area that is dry, well-ventilated, and out of direct sunlight.

2.4 Specify Layout & Fixings

Ensure that the project falls within the product's specified scope of use and that the fixings selected are suitable for the site's exposure zone. PRIMAalpha Groove sheet joints must be supported by timber or lightweight steel members. Where PRIMAalpha Groove is to be used with Taylor or Klaas Fascia Systems, it must be chamfered to fit. PRIMAalpha Groove may be fixed directly to supporting framing of timber or light gauge steel.

For larger eaves, gable ends and roof projection ceilings, the selection of the correct nominal size will be given by the span tables in NZS3604: 2011, table 10.3 or NASH Design Standard: 2010.



2.5 Tools Required

- circular saw – with diamond tipped or tungsten carbide blade fitted
- hole saws
- speed bits
- drill
- jig saw - with diamond tipped or tungsten carbide blade fitted
- scribing knife
- utility knife
- bench saw or plunge saw
- soft faced mallet
- cartridge gun.

2.6 Other Products Required

For fixing to wood frames:

- 30 mm x 6 g zinc alloy fibre cement screws
- 40 mm x 9 g stainless steel 316 nails
- 40 mm x 2.8 mm galvanized nails.

For fixing to steel frames:

- 30 mm x 9 g fibre tek C4 screws.

For fixing on internal walls:

- ND 50 brad nails with adhesive
- adhesive sealant e.g. Sika Sikaflex 11FC, Bostik Seal N Flex-1
- Fullers Max Bond, Selleys Liquid Nails.

3. Installation

3.1 Substrate Preparation

PRIMAalpha Groove may be fixed to timber or light gauge steel framing (0.5 mm to 1.15 mm gauge).

Framing centres must be:

- 600 mm maximum for stud/joist spacing
- 1200 mm maximum for noggin or dwang spacing
- 50 mm minimum support face width for timber framing or 36 mm minimum support face width for steel framing.

Check the substrate is level and true.

Ensure timber framing has a moisture content of less than 18% before installing PRIMAalpha Groove.

3.2 Sheet Preparation

Ensure sheets are dry to equilibrium moisture content before fixing. Damp sheets should not be installed as they are prone to shrinking, which may lead to joint failure.

3.3 Cutting Sheets

Cut PRIMAalpha Groove sheets using standard wood working tools as listed above. Always ensure extraction is used when cutting with a power tool.

3.4 Creating Openings

Round holes can be formed by drilling a series of smaller holes around the perimeter of the proposed opening, using a high-speed heavy-duty drill bit carefully remove the waste piece. Trim rough edges with a rasp if required. Smaller holes can be made by drilling with a hole saw bit.

Square or rectangular openings can be achieved using a power assisted circular saw or drilling holes in the corners and scribing from corner to corner. Always remove the unwanted waste by pushing from the finished side of the sheet.

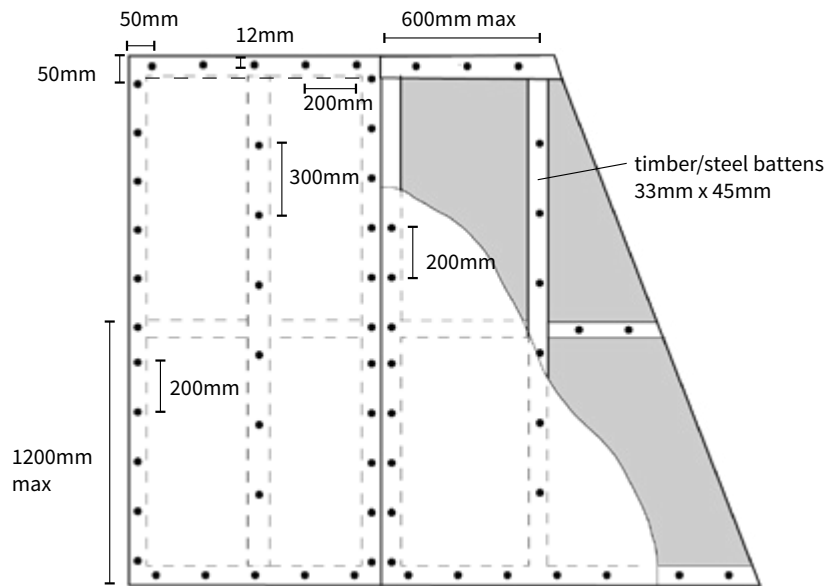
3.5 PRIMAalpha Groove Over Masonry

Installing PRIMAalpha Groove over new or existing masonry requires the installation of light weight steel or timber battens at a maximum of 600 mm vertical centres.

When installing battens, ensure that a damp proof course is used to separate the batten from the concrete face.

Fix battens in place using masonry nails, screws, or light gauge nylon frame anchors at maximum of 300 mm centres.

Install PRIMAalpha Groove panels as shown.

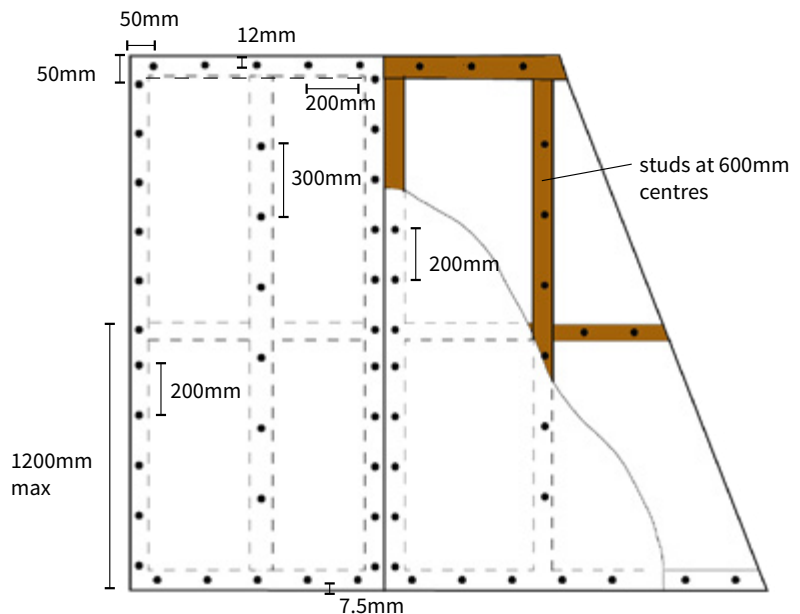


3.6 Panel Fixing Detail

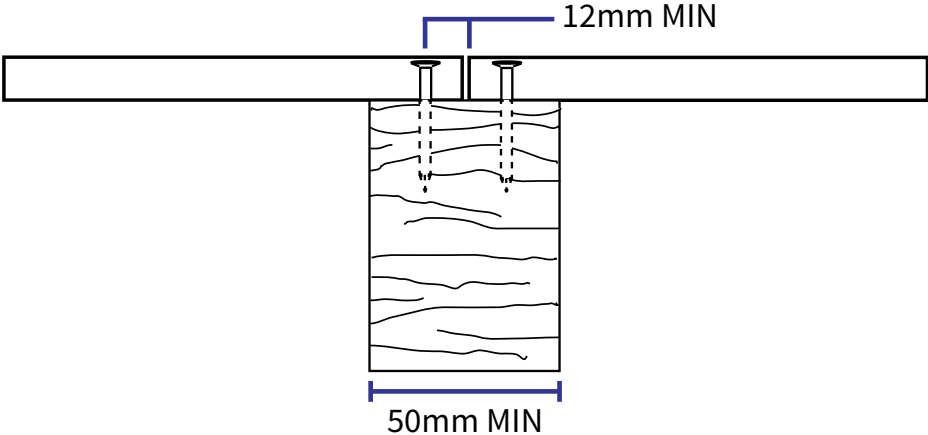
Installing PRIMAalpha Groove over new or existing timber framing with vertical stud at a maximum of 600 mm centres.

Ensure the frame is plumb and true with a moisture content not exceed 18% prior to installation.

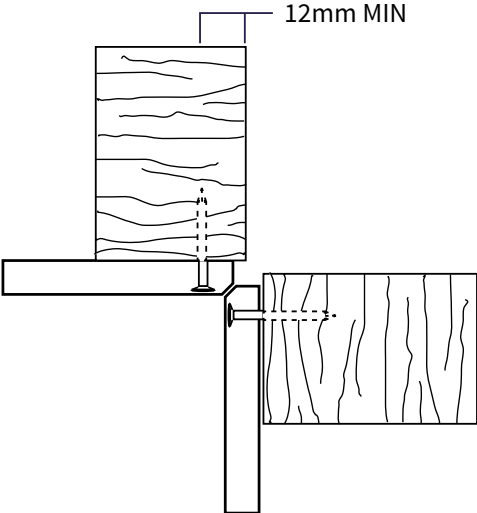
Install PRIMAalpha Groove panels as shown.



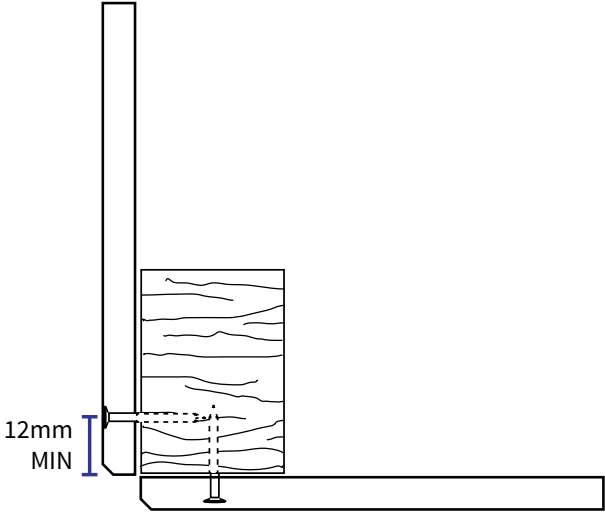
3.7 Typical Panel Butt Joint



3.8 Typical Internal Corner Joint



3.9 Typical External Corner Joint



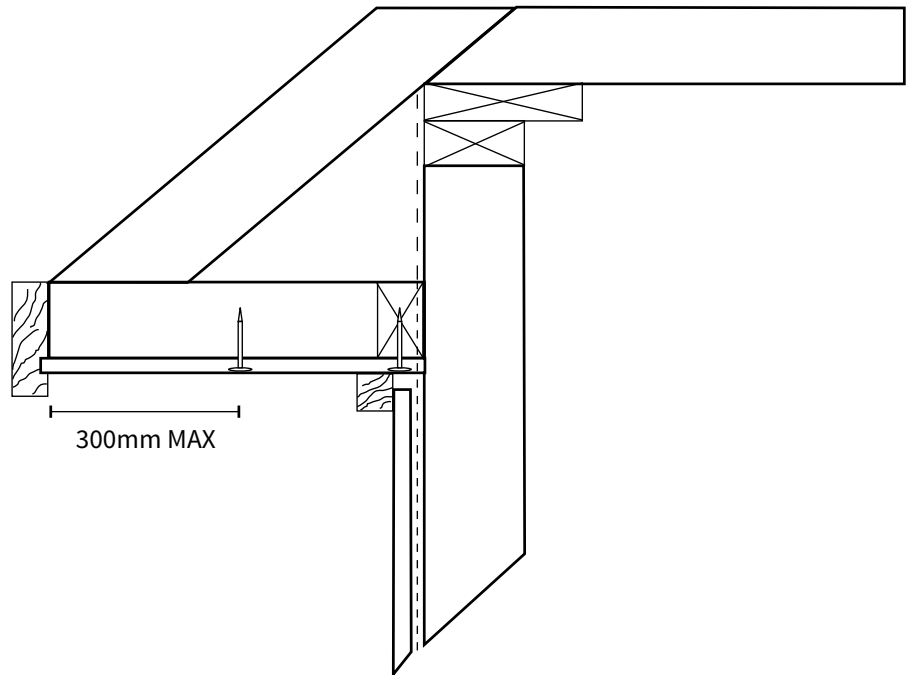
3.10 Eave and Soffit Fixing

PRIMAalpha Groove can be used as a soffit lining.

It may be used with all fascia boards including uPVC and metal provided the groove can accept 7.5 mm.

Where the fascia groove is less the leading edge of the PRIMAalpha Groove can be chamfered to allow clearance.

The soffit lining must be supported with fixings at 300 mm maximum centres.



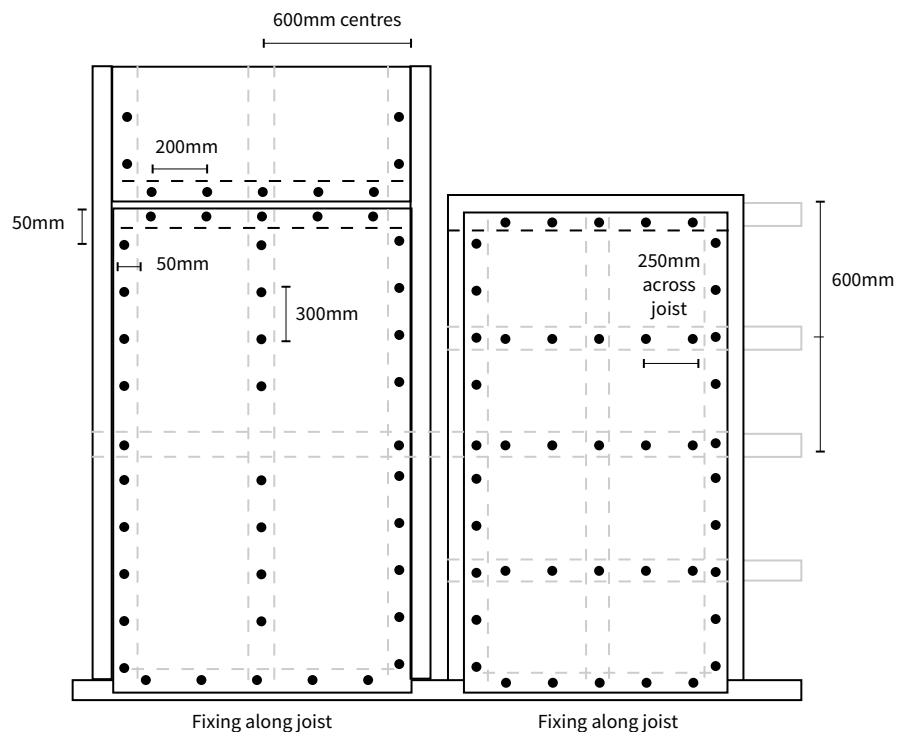
3.11 Fixing to Ceiling

PRIMAalpha Groove can be used as an interior or exterior ceiling lining.

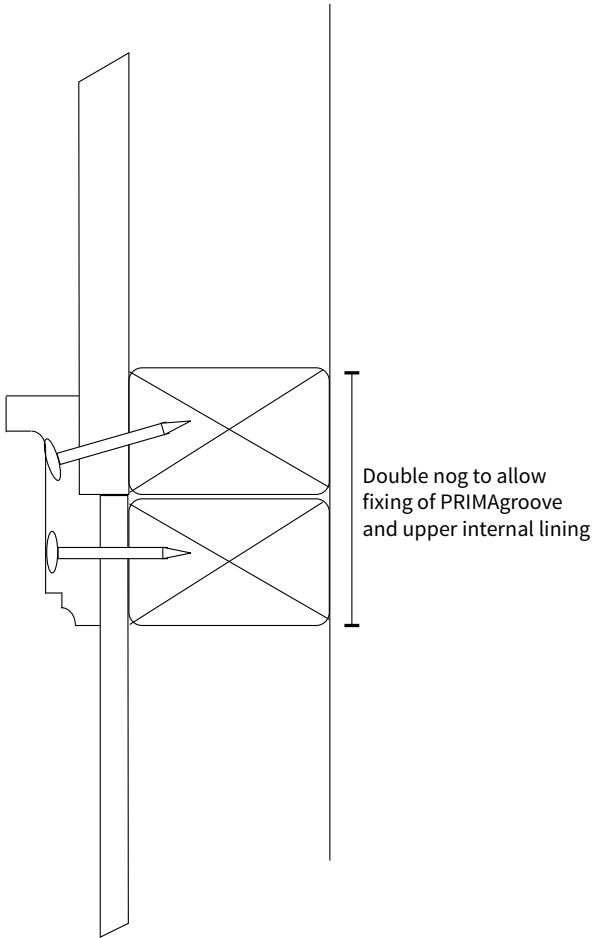
Conceal the fixings by using countersunk screws, filled with a 2-pot filler and sand flush.

Fixing centres may be increased in favour of a compatible glue. Prop or semi install fixings until the glue has cured. Fixing shall be 12mm from edge of the board.

Install PRIMAalpha Groove panels as shown.

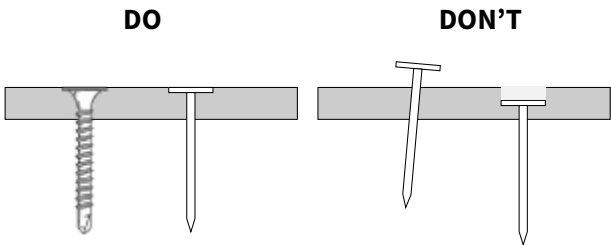


3.12 Fixing of Dado



3.13 Fix Correctly

- Screws can be countersunk
- Nails should be flush with the PRIMAalpha Groove surface
- Do not punch the nails



4. Finishing

Use a paint system that is compatible with fibre cement panels and appropriate for where the product has been used e.g., externally, internally in a non-wet area, or internally in a semi-wet area. IBS recommends obtaining advice from your preferred coating supplier.

When used externally, ensure all panel joints are sealed and filled, if necessary, use a suitable exterior grade flexible acrylic sealant and filler prior to painting. Once the joints are dry remove any dirt, grease, or dust from the panel surfaces.

5. Care & Maintenance

Under normal conditions, PRIMAalpha Groove will not need maintenance, as long the protective paint system is maintained.

If water damage does occur to an area where PRIMAalpha Groove has been used, first remove the protective paint layer. Then make sure the area is allowed to dry before replacing the protection.

Maintain the paint finish in accordance with the manufacturer’s requirements. This will depend on the finish chosen, but will typically include:

- regularly washing or wiping clean protective surfaces
- ensuring the paint or plaster system is maintained.

See the latest PRIMAalpha Groove Care and Maintenance guide on our website www.ibs.co.nz.

Notes:



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