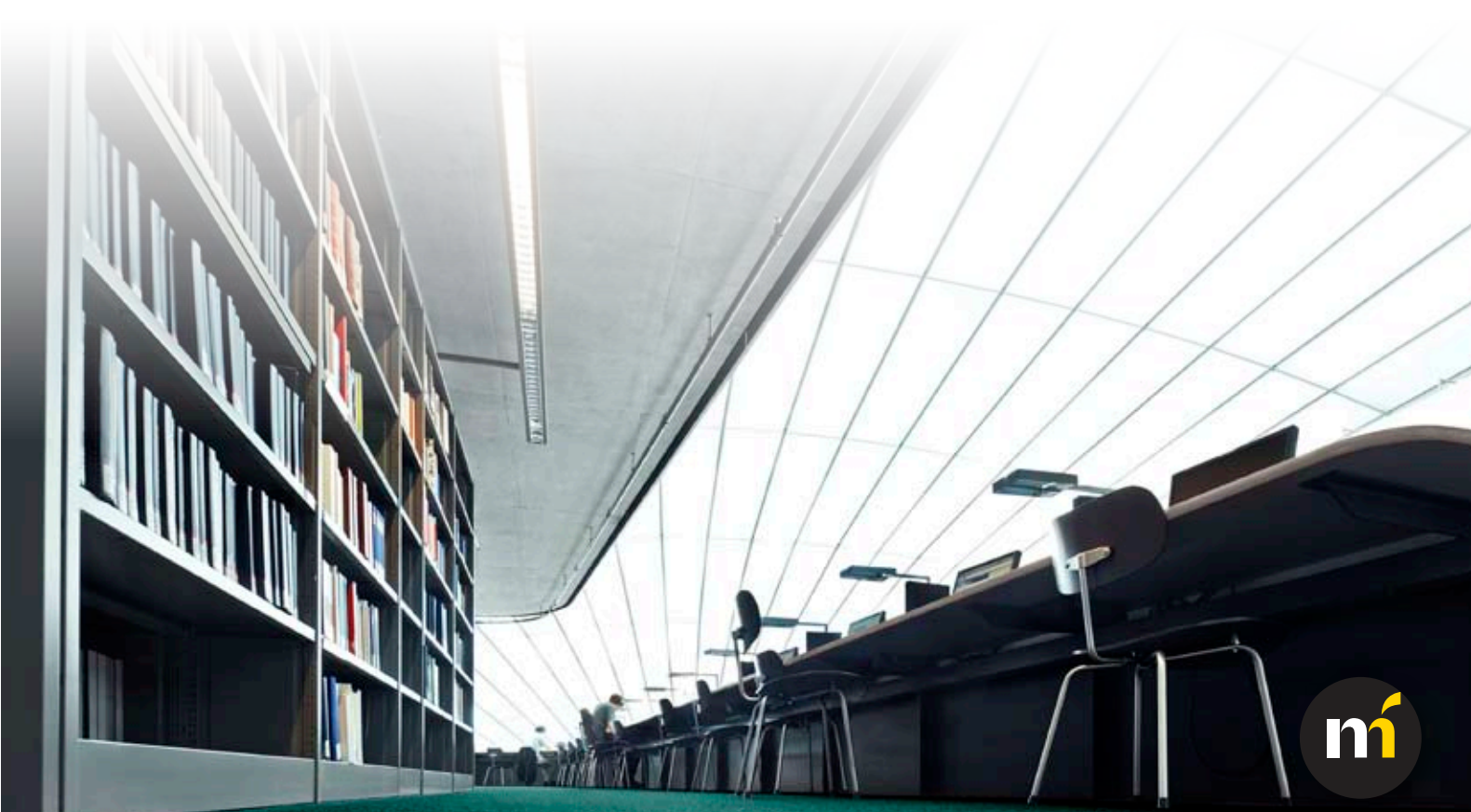


# Orbit®

Product Specification  
& Technical Detail



Commercial Carpet by Melded Products

[www.meldedproducts.com](http://www.meldedproducts.com)



## Introduction

 PLEASE READ ALL INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION

Melflor® Orbit® carpets should be installed in accordance with AS/NZS2455-1-2007 (Textile Floor Coverings – Installation Practice).

In presenting the following information, Melded Products Group cannot claim to serve in any but an advisory capacity, and can undertake no liability. All recommendations regarding the use of our products should be modified, if necessary, to conform to local regulations and materials.

## Installation – Sub-Floor Preparation

All sub-floors should be sound, level (plane), rigid, clean, dry and smooth. They should be free from dust, old vinyl, adhesive, underlay and carpet, plaster, polishes and other coatings.

Concrete and Sand/Cement Screed sub-floors must not allow moisture to rise to the surface. Direct to earth sub-floors must include an effective damp proof membrane. New concrete and sand/cement screed must be dried out before laying floor coverings. They should give a reading of not more than 70% R.H. on a hygrometer test. Uneven surfaces should be levelled with a screeding compound and dusty or very absorbent surfaces should be primed.

Other Surface Coatings – Waterproofing and hardening/curing treatments should not be applied to concrete as these may interact with adhesives. If they are present, these and other coatings/treatments should be removed, mechanically if possible, and/or covered by a 3mm skim of screeding compound after scouring the surface with a coarse abrasive to provide a key. Check that the screeding compound is bonded to the sub-floor before laying commences. If in doubt about surface coatings, refer to the adhesive or carpet manufacturer.

Non-Absorbent Surfaces – E.g. ceramic, quarry tiles, terrazzo, power floated concrete slabs with a dense, smooth surface – may need to be skimmed with a 3mm skim of screeding compound. This is particularly necessary for tiled surfaces to prevent the pattern of the tiles showing on the surface of the floor covering. Heavily glazed surfaces need to be roughened to provide a good key for the screeding compound. If there is no damp proof membrane under the floor tiles it is necessary to seal the surface with a layer of flooring grade mastic asphalt to prevent moisture coming through. A minimum of 3mm of screeding compound should be laid on top of the asphalt lower layer to prevent contact between the asphalt and adhesive or tile backing compound.

Existing Floor Coverings should be removed wherever possible, together with any adhesive used to fix them. Melflor® Orbit® carpet should not be laid directly over vinyl floor coverings.

Wooden Floors must have adequate sub floor ventilation to ensure that the moisture content is not excessive. Worn or uneven boards should be replaced or levelled by sanding, planing and filling holes with screeding compound, before covering with sheets of hard board underlay. Joins in the sheets should be staggered and nailed or stapled at 100mm – 150mm centres 10mm from edges. Wood block floors and mosaic panels should be similarly treated. On ground floors, wood blocks must have an effective damp proof membrane under them.

Composition Floors constructed of magnesite cement or PVA/cement must be adequately protected by a damp proof membrane, otherwise it must be removed and the base made good before installation commences. If protected, all cracks and hollows must be filled and the whole area skimmed with 3mm of screeding compound prior to installation.



## Installation – Laying of Roll Carpets

Conditioning – Orbit® carpets should be removed its packaging, unfastened and unrolled in the area into which it is to be installed. The carpet is to be conditioned for 48 hours at the same temperature and humidity as the area will experience in general use.

Planning - Where the room is other than square, the length of the carpet should be laid parallel to the longest room dimension. Avoid having joins in doorways and other high traffic areas.

Cutting First Piece - Inspect all rolls of carpet before cutting and keep all rolls in case of complaint. Cut the first length of carpet 75mm longer than the length of the room, allowing extra for doorways, alcoves and other irregularities. Lay the length of the carpet in a position facing the doorway with the other end lapped up against the wall. Laying the first strip in front of the doorway ensures there will be no join in this heavy traffic area. Subsequent strips will be laid moving out towards the walls. Run a marker (chalk/pencil) along the edges of the carpet to provide a guideline on the floor for adhesive spreading.

Applying Adhesive - Fold back half of the carpet onto itself taking care not to disturb its position. Apply adhesive to the exposed floor to within 20cm inside the guidelines. Carefully replace the carpet back into position after allowing the necessary "tack up" time for the adhesive. Repeat for the other half. Apply pressure from the centre of the carpet towards the perimeter to squeeze out any air pockets. Roll with a flooring roller (minimum 45kg) to ensure good contact with the adhesive.

Laying Successive Lengths - Place the second piece parallel to the first piece and overlap the adjacent edge by 3cm. Mark the floor on the other edge as a guideline. Fold half of the second piece back and apply adhesive from 30cm inside the previous guideline to 30cm inside the new guideline. This will leave an area of 40cm between the first and second strip of carpet. Orbit® roll carpet is supplied at 206cm wide and must be trimmed back to 200cm to achieve a good join. Place a straight edge over the middle of the overlap and cut through both pieces of carpet. Remove the off cut of carpet, fold back edges, apply adhesive and re-lay the carpet edges. Continue with this method until all of the carpet is laid. Trim off surplus edges flush to the floor / wall junction and re-roll the entire area starting from the centre and working out towards the walls to remove any air bubbles.



### Notes:

Lay the carpet strips in the same direction to avoid colour difference due to pile reversal. Mark the back of the carpet with an arrow prior to cutting the strip.

It is recommended that the overlap is raised before cutting by inserting a strip of masonite or carpet off-cut under the join. This will ensure that there is sufficient carpet to prevent any gaps forming due to shrinkage before the adhesive has dried.

Ensure carpet has the same batch number. Do not mix batches as colour variation can occur.

Always use a sharp knife for trimming the carpet.

## Installation – Adhesives and Underlays

If underlays are to be used with Orbit® carpet, Melded Products Group recommends consulting with a professional carpet layer for advice.

For indoor direct stick applications, Melded Products Group recommends **Roberts 85 Adhesive**  
For outdoor direct stick applications, Melded Products Group recommends **Roberts 6037 Adhesive**  
Roberts Adhesives are available from:

### RLA POLYMERS PTY LTD

215 Colchester Road, Kilsyth, Victoria 3137, Australia

Telephone (03) 9728 1644

Facsimile (03) 9728 6009

Email: [info@rlapolymers.com.au](mailto:info@rlapolymers.com.au)

[www.rlapolymers.com.au](http://www.rlapolymers.com.au)



## Product Specifications

### Orbit® Carpets

Specification	
Pile	100% Polypropylene
Pile Weight	1000 gm/m <sup>2</sup> ± 10%
Primary Backing	Latex
Backing Weight	200 gm/m <sup>2</sup> ± 10%
Total Weight	1200 gm/m <sup>2</sup> ± 10%
Roll Length	200cm wide Supplied at 206cm for on-site trimming
Roll Size	25 Metres Nominal

### General Specifications - Inherent Properties

Orbit's® blend of polypropylene fibre is inherently mildew, insect and fade resistant and is not affected by water and most chemicals. The unique manufacturing process ensures that the carpet will not fray, and the polypropylene fibre combined with an anti-static agent during the manufacturing process ensures that the effects of static electricity are rarely felt at relative humidities as low as 30%.

Orbit® carpets are manufactured under the strict International Standards Organisation ISO9001 Quality Management System, ensuring product quality and customer satisfaction.



### Flammability

Orbit® roll carpets have been tested to AS/ISO 9239.1.2003 and have achieved the following excellent results.

<b>Regulatory Index</b>	<b>Orbit®</b>
<b>Mean Critical Radiant Flux</b>	5.1kW/m <sup>2</sup>
<b>Mean Smoke Development Rate</b>	245%.min

Like all carpets, Orbit® can be made to burn under certain circumstances. The values quoted above are as required by Specification C1.10a Fire Hazard Properties ( Floors ) of the Building Code of Australia.

Copies of flammability certificates are available on request.



## Cleaning & Maintenance


The Orbit® range of carpets are manufactured from stain resistant polypropylene fibre and therefore is inherently resistant to soiling and liquid spills. However, regular maintenance will not only keep Orbit® carpets clean, it will also extend the products service life by removing abrasive dirt particles. The following points should assist with cleaning and maintenance.

- Always check a proposed cleaning method on a concealed section.
- Avoid unnecessary severe abrasion.
- Use only carpet shampoo. Do not use dishwashing or laundry detergents.
- Vacuum to restore pile – do not use a stiff brush.

## Problem Stains

The golden rule with all stains is to attend to them as soon as possible. Some staining substances chemically react with fibres and permanent staining may result unless immediate first aid action is taken. The actions listed below should be used in conjunction with the treatment table (see fig 1.2 - following page) to address certain common stains.

- A.** Absorb excess as soon as possible with a sponge or cloth.
- B.** Remove surplus with a knife edge or spatula.
- C.** Sponge with carpet shampoo working from well outside the stain and stroking towards the centre (this avoids spreading the stain). Sponge afterwards with clean, warm water and mop up excess with a sponge or cloth. Allow to dry and vacuum or brush gently to restore pile direction.
- D.** Dilute stain with cold water applied by sponge and absorb with a sponge or cloth.
- E.** Apply enzyme detergent solution (one teaspoon per 300ml warm water) by sponge. Leave for 20 minutes, rinse with clean water and absorb excess.
- F.** Sponge with clean, warm water and absorb excess.
- G.** Lubricate stain with glycerine.
- H.** Sprinkle salt onto stain to absorb liquid, leave overnight and vacuum.
- I.** Apply methylated spirits or an ink removing solvent using a sponge.
- J.** Cover stain with absorbent paper and apply a warm iron. The temperature setting will have to be adjusted to suit the stain being absorbed by the paper, but should be as low as possible to avoid damage to the carpet.
- K.** Apply nail polish remover or acetone – only required if other treatments leave a stain residue. Immediately blot the whole area with absorbent paper and rinse with warm water.
- L.** Apply paint brush cleaner of water dispersible type (i.e. Polyclens) very sparingly with a sponge and immediately blot with absorbent paper. Rinse affected area thoroughly with copious amounts of water.
- M.** Clean with a regular extractive carpet cleaner (steam cleaner).

 **WARNING** – The types of solvents mentioned in sections 'K' and 'L' are injurious to the carpet backing. DO NOT let the solvent soak down the pile.

**Burns and Scorches** – If the pile of Orbit® carpet has been melted and permanently damaged, cut out the damaged portion and replace with a new piece from the same batch.

While this advice is offered in good faith, no responsibility is accepted for claims arising from the use or suggested treatments.



## Treatment Table

Treatment (in sequence 1 - 5)					
Stain	1	2	3	4	5
Beetroot	D	E			
Bleach	A	C			
Blood	D	E			
Butter/Margarine	B	A	I	C	
Chocolate	B	F	C		
Cream	B	A	C		
Dust/Dirt	Vacuum, then C or M				
Drinks - tea, coffee, juice, beer	A	F	E	C	
Glue - non water based	A	I	C	(then K and C if required)	
Glue - water based	A	D	G	C	
Gravy	B	A	F	C	
Grease	B	J	I	C	
Ink - permanent	A	I	C		
Ink - non permanent	A	F	C		
Mildew	B	C			
Milk	A	F	C		
Mud	B	A	C		
Oil	B	A	I	C	
Paint - oil based	A	L	C		
Paint - water based	A	D	G	C	
Salad Dressing	B	A	I	C	
Sauces	B	A	F	C	
Urine - fresh	A	C			
Vomit	B	A	C		
Wine - Red	A	H	E		
Wine - White	A	F	C		



## Note

All information is given in good faith but without warranty. Freedom from patent rights cannot be assumed. Melflor, Orbit and logos are trademarks of Melded Products Group. Melded Products Group reserves the right to alter specifications without notice.

## Questions

For further information or samples on these or any Melded Products Group range, please contact us on +61 3 8791 9200.



Manufactured by:

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