



# Healthcare

**ØFlow<sup>®</sup>**

An Umbrella for your Floor

Carpets Inter<sup>®</sup>



# Healthcare and Assisted Living

**When** the need for caring requires a permanent relocation into an institution or assisted living facility, we owe it to our loved ones to ensure their surroundings are safe, functional and home-like...

**A primary** element towards creating a safe and functional environment within a healthcare or assisted living facility is the type of flooring used.





*Fit for Purpose...*

*Carpets Inter provide durable “fit for purpose” floor covering solutions to healthcare and assisted living facilities.*

**Flooring** becomes  
**another design medium** allowing  
**for the creation** of truly unique  
design schemes without  
**compromising performance.**

**ZeroFlow® can help**

achieve any creative vision through  
use of the exclusive patterns, textures  
and colours.



# INTRODUCTION TO HEALTHCARE

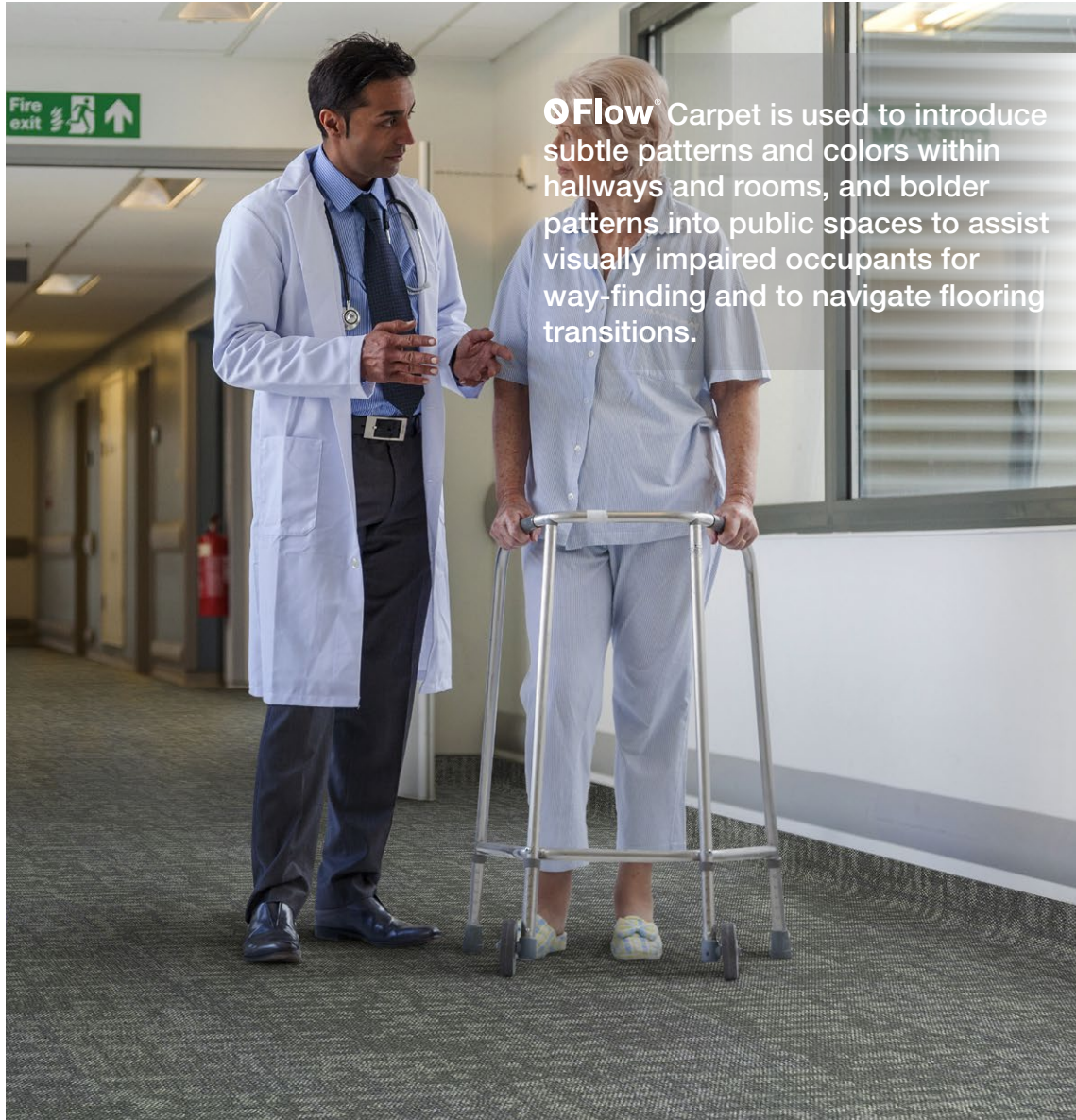
## GENERAL

The primary requirement governing the selection of flooring for healthcare is that it should be 'fit for purpose', i.e., that the functional performance of the flooring should match the users' requirements. This definition covers not only the physical or functional performance, but also the many factors that impact users and occupants, and are a recognized part of the healing environment, e.g. acoustic control, colour, texture, and comfort.

## MATERIAL PROPERTIES

Simply put, flooring materials can be classified as hard, resilient or soft. Hard and soft materials are easily distinguished and are represented by ceramic tiles at one end of the scale and textile finishes at the other. Resilient finishes by contrast include vinyl sheet, rubber and linoleum, ranging from semi rigid (vinyl composition tiles) to semi soft (acoustic backed vinyl and rubber). Within each category a further level of properties includes imperviousness, smoothness, slip-resistance, fire hazard properties, dirt retention/control, component size and method of joining, all of which affect suitability for use.





**ØFlow**® Carpet is used to introduce subtle patterns and colors within hallways and rooms, and bolder patterns into public spaces to assist visually impaired occupants for way-finding and to navigate flooring transitions.

## PERFORMANCE

‘Fit for Purpose’ implies that floor finishes achieve the performance required for the intended use, such as:

- Safety and OHS
- Infection control, hygiene and odor control
- Fire safety
- Interior environment quality (IEQ), including acoustic control and indoor air quality (IAQ)
- Being reassuring and comfortable, including underfoot comfort
- Sustainable or low environmental impact
- Ease of cleaning and low maintenance
- Whole of Life Costing (WLC) and Life Cycle Assessment (LCA) efficiency
- Accessibility, wheelchair and wheeled equipment use.

Many Healthcare facilities are governed by regulation, e.g. accessibility, safety, acoustic, fire safety and OHS. It is essential that the architect and/or interior designer consult with the client representative and product manufacturer to ensure that the end product can be signed-off as suitable and ‘fit for purpose’.



# WHY USE CARPET...

## UNDERFOOT COMFORT

Carpet effectively absorbs foot impact and as a result reduces leg muscle fatigue to a greater degree when compared with hard floor impact. Comfort under foot translates to a higher degree of comfort for the patient and may assist to increase the overall productivity of the staff working within the facility.

## ENERGY SAVING

Ambient temperature fluctuations which can occur with hard flooring, can be minimised by the use of ZeroFlow® carpet. In controlled experiments by textile laboratories measuring heat consumption of two identical dwellings (one with and one without fitted carpet), tests showed energy savings contributable to between 8.6% and 12.8%.

## ACOUSTICS

Carpet is an outstanding sound absorptive material compared to resilient & hard floor. When properly selected, carpet absorbs airborne noise as efficiently as many specialized acoustical materials.

## AESTHETIC

Carpet provides flexibility of pattern and colour within any interior space. In addition a modular carpet system may be installed in alternative configurations to create interesting effects. Laser cut inserts are now available to inset into the carpeted areas, demarcating transitions, signage or navigation for better safety and function.

## GLARE REDUCTION

Some Homogeneous & Ceramic Hard Flooring are reflective, creating glare from sunlight or overhead lighting which may disorient elderly patients, potentially causing them to fall. ZeroFlow® carpet will prevent glare and provide a consistent focal point.

## SLIP RESISTANCE

Underfoot grip is essential. Elderly or disabled occupants who require walking aids or are visually impaired, require firm contact with flooring surfaces. Wherever there is risk of spillage, or presence of moisture, ZeroFlow® provides a safe footing. The use of smooth hard floors with only dry slip resistance can make them potentially slippery and unsafe if wet.

## TROLLEY TRAFFIC

While resilient and hard flooring provides less drag on trolley wheels compared with most carpet, ZeroFlow's hard wearing, dense and nondirectional, level pile carpet is engineered for optimum performance using a direct-stick installation method. This will provide less rolling resistance when moving equipment, minimizing physical effort and sideways movement.

## INDOOR AIR QUALITY (IAQ)

Carpets using 100% synthetic materials perform best in Healthcare spaces. Airborne dust and bacterial particulates are released through everyday foot traffic and/or drafts from access routes. While hard surface floors allow allergens to be kicked up into the air - potentially triggering allergic reactions. ZeroFlow® carpet improves indoor air quality by capturing dust and small soil particles in its pile until they are vacuumed away.

## ENVIRONMENTAL

Carpets Inter is certified in ISO 14001, which means that our environmental management programs meet globally recognized standards. We are committed to minimizing environmental impact at every stage of production by

- Continued use of environmentally responsible recyclable synthetic fibers.
- Zero Landfill program by repurposing offcuts into refuse derived fuel (Biofuel) for Power generation and Cement manufacturing, and water treatment sediment for fertilizer production.
- Use of Low VOC carpet adhesives and backings for all our products.
- Support of environmentally friendly ECOgent™ carpet cleaning chemicals for maintenance.
- State-of-the-art water treatment facility.
- Paper recycling programs.
- Member of the Carpet & Rug Institute.





## A key criteria

of any Healthcare facility is to

**prevent moisture penetration**

into the substrate from surface spillage.

Any contaminant entrapped under

the flooring can react with the substrate

and cause bacterial attack, bad odor (VOC's) or

cause the floor covering to prematurely release

**resulting in potential trip hazards**

**and costly repairs.**



# ZeroFlow®

## Protection from liquid spills

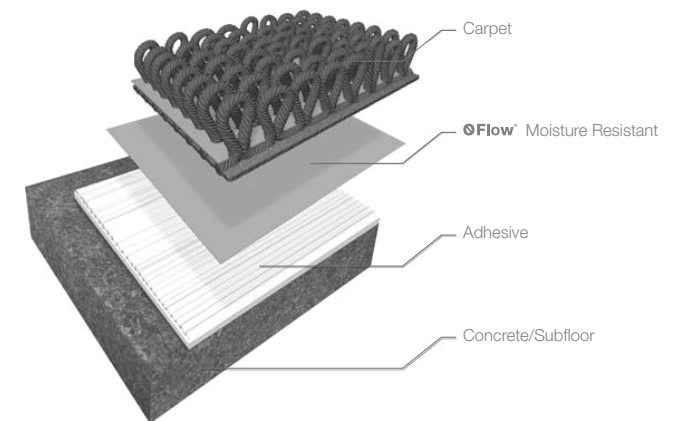
*Carpets Inter revolutionary ZeroFlow® moisture resistant backing prevents liquid spills from penetrating through the carpet into the subfloor, eliminating the risk of bacterial entrapment.*

## THE SOLUTION

**ZeroFlow®** is a uniquely engineered thermoplastic system developed to work with our 100% Solution dyed nylon fiber tufted and woven axminster carpet types. This backing establishes a moisture management system between the carpet and the subfloor.

Traditional carpet backings are porous, allowing liquid spills to penetrate through to the sub-floor where they cannot be effectively cleaned. This can lead to odours and potential growth of harmful bacteria, mould and mildew. Spills on ZeroFlow® don't reach the subfloor and remain on the carpet surface where they can be readily spot cleaned and treated. Carpet seams are sealed during installation to prevent moisture penetration.

ZeroFlow® backed products meet Green Label Plus indoor air quality standards and are available in a diverse range of textures and patterns.





# ZeroFlow® Outstanding features



ZeroFlow® is an applied moisture management backing system that is engineered for use in Healthcare and Assisted Living facilities.



ZeroFlow® moisture resistant backing prevents contaminants seeping into the substrate, thus providing a safe & healthy environment.



ZeroFlow® enables longer maintenance time for removal of liquid spillage, through avoiding penetration into the substrate below.



ZeroFlow® carries the CRI Green Label Plus certification from the Carpet & Rug Institute, assuring a Low VOC Indoor Air quality.



ZeroFlow® gives the customer broad pattern and color capability, all aligned to be sensitive and functional to the needs of the occupants.



ZeroFlow® installation is made easy by using 2.00-meter wide < 20-meter long modules, enabling faster and more economical installation with limited disruption to occupied spaces.



ZeroFlow® is installed on quick release adhesive and upon completion of the warranted lifespan may be uplifted with minimum affect to the substrate, avoiding lengthy and expensive substrate repairs often required after uplifting hard and/or resilient flooring.



ZeroFlow® can be disposed of at your nearest recycling centre (subject to regional capabilities).



For emergency maintenance, 2.00-meter-wide ZeroFlow® rolls may be placed upright requiring less storage space.





## Sanitized®

Sanitized® is a plus for all healthcare facilities.

The antimicrobial treatment offers cleanliness even in between normal cleaning cycles for more peace of mind.

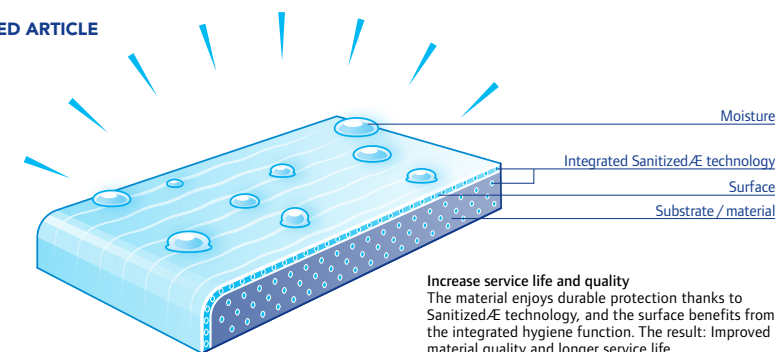
- ▶ Integrated into the carpets primary back-coating for everlasting effect
- ▶ Safe for people and the environment
- ▶ Constant protection against bacteria and fungal growth
- ▶ Helps reduce material degradation, stains and odors caused by the colonization of microbes

## LONG-LASTING HYGIENE MANAGEMENT

Long-lasting material protection thanks to SanitizedÆ technology

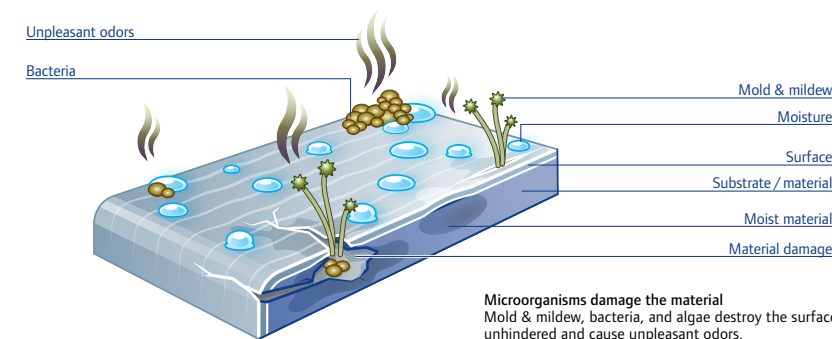


### PROTECTED ARTICLE



**Increase service life and quality**  
The material enjoys durable protection thanks to SanitizedÆ technology, and the surface benefits from the integrated hygiene function. The result: Improved material quality and longer service life.

### UNTREATED ARTICLE



**Microorganisms damage the material**  
Mold & mildew, bacteria, and algae destroy the surfaces unhindered and cause unpleasant odors.

Built-in Sanitized® material protection. Enhanced to improve durability, performance and aesthetics. The Sanitized® hygiene function is an integrated antimicrobial treatment providing long-lasting protection against microbial aggressors like bacteria, mold and mildew that cause material degradation.

Carpets Inter® 100% SDN fiber ZeroFlow® can be treated with the Sanitized® hygiene function upon request.



## When choosing floor covering

for healthcare and assisted living facilities, remember it is essential that the architect, interior designer and building contractor consult with the client representative and product manufacturer to ensure that the end product can be signed-off as suitable and **‘fit for purpose’** for each individual location within the facility.

**Carpets Inter, providing  
healthier flooring solutions....**





## General Specifications

	ACCOMMODATION-HEAVY DUTY	PUBLIC SPACE-HEAVY DUTY
<b>Performance</b>		
Application	Aged Care Facilities, Senior Living, Wards, Apartment	Hospital, Medical & Dental Clinic, Fitness Centre
British Spill Test Method E	Passes: No Penetration Occurred	Passes: No Penetration Occurred
Electrostatic Propensity	AATCC 134 < 3.5 KV	AATCC 134 < 3.5 KV
Colorfastness - To Light - To Rubbing Wet - To Rubbing Dry	ISO 105-B02 Minimum 6 ISO 105 – X12 Minimum 4 ISO 105 – X12 Minimum 4	ISO 105-B02 Minimum 6 ISO 105 – X12 Minimum 4 ISO 105 – X12 Minimum 4
<b>Wellbeing</b>		
Sanitized® Antimicrobial	Neutralizes Covid Type Virus, Harmful Bacterial and Microbial Infestations (See Pg: 10) AATCC-174	AATCC-174
Indoor Air Quality	CRI Green Label Plus	CRI Green Label Plus
<b>Acoustic</b>		
Sound Absorption	BS EN ISO 354 NRC 0.15 or higher (Superior Noise Reduction)	BS EN ISO 354 NRC 0.15 or higher (Superior Noise Reduction)
<b>Flammability</b>		
Hot Metal Nut	BS 4790 Low Radius	BS 4790 Low Radius
Radiant Panel Test	ASTM E648 Class 1	ASTM E648 Class 1
Smoke Density	ASTM E662 < 450	ASTM E662 < 450
Surface Flammability	ASTM D2859 / CPSC FF 1-70 Pill Test Pass	ASTM D2859 / CPSC FF 1-70 Pill Test Pass



## HEALTHCARE PROJECTS

- 📍 Bayside Specialist Centre, Australia
- 📍 Fernwood Fitness Parramatta, Australia
- 📍 Healthscope Dromana, Australia
- 📍 Marly Hemisphere Nursing Home, Australia
- 📍 Southbank Medical Clinic, Australia
- 📍 Pacific Radiology, New Zealand
- 📍 St George's Hospital, New Zealand
- 📍 Bumrungrad International Hospital, Thailand
- 📍 Vejthani Hospital, Thailand
- 📍 Whittlesea Lodge Aged Care, Australia





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