



# Inclusive Healthcare Design

For Dementia and  
Ageing Environments  
Taralay Impression Collection

**Gerflor**<sup>®</sup>





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# Inclusive Design is for everyone!

It is design that considers the full range of human diversity with respect to ability, language, culture, gender, age and other forms of human difference.



## And it considers...



- Vision
- Hearing
- Mobility
- Intellectual abilities
- Communication abilities



- Culture
- Religion
- Social status
- Economic status



- Height
- Weight
- Age
- Gender



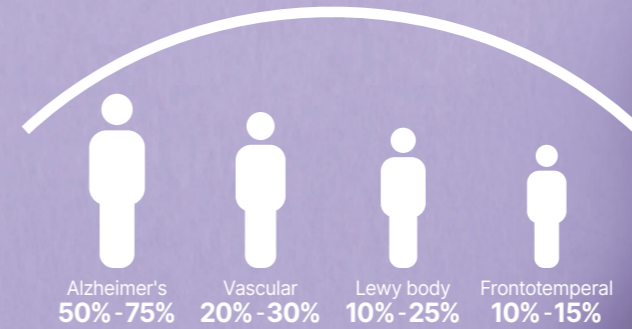
- Psycho-emotional state
- Ways of perception

# Dementia: Disease or syndrome?

It is a syndrome, usually of a chronic or progressive nature, caused by a variety of brain illnesses that affect memory, thinking, behaviour and ability to perform everyday activities.

Dementia is overwhelming not only for the people who have it, but also for their caregivers and families.

An "umbrella" term used to describe a range of symptoms associated with cognitive impairment.





# Why Dementia is important!

**55m** Today

**132m** 2050  
People living with Dementia

**7th**

Leading cause of death

**65%**

Of people dying of dementia-related deaths are women

Dementia is a major cause of disability and dependency among older adults worldwide

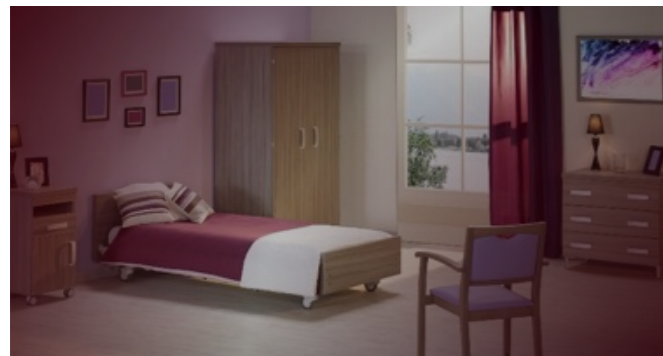
Source: Global action plan on the public response to dementia, WHO Report

## They see and experience the world differently !



Less sensitivity to variations in the contrast between objects and background

- Diminished ability to detect movement
- Reduced ability to see different colours
- Problems directing or shifting gaze
- Problems with recognizing things and faces
- Reduced sensitivity to depth perception



# Dementia Services Development Centre



Is an international centre for knowledge exchange and research impact dedicated to improving the lives of people with dementia.

In order to accommodate the unique needs of people with dementia and make their lives easier, DSDC is responsible for accrediting finishing material designs and patterns in addition to offering guidance for designing dementia-friendly surroundings.

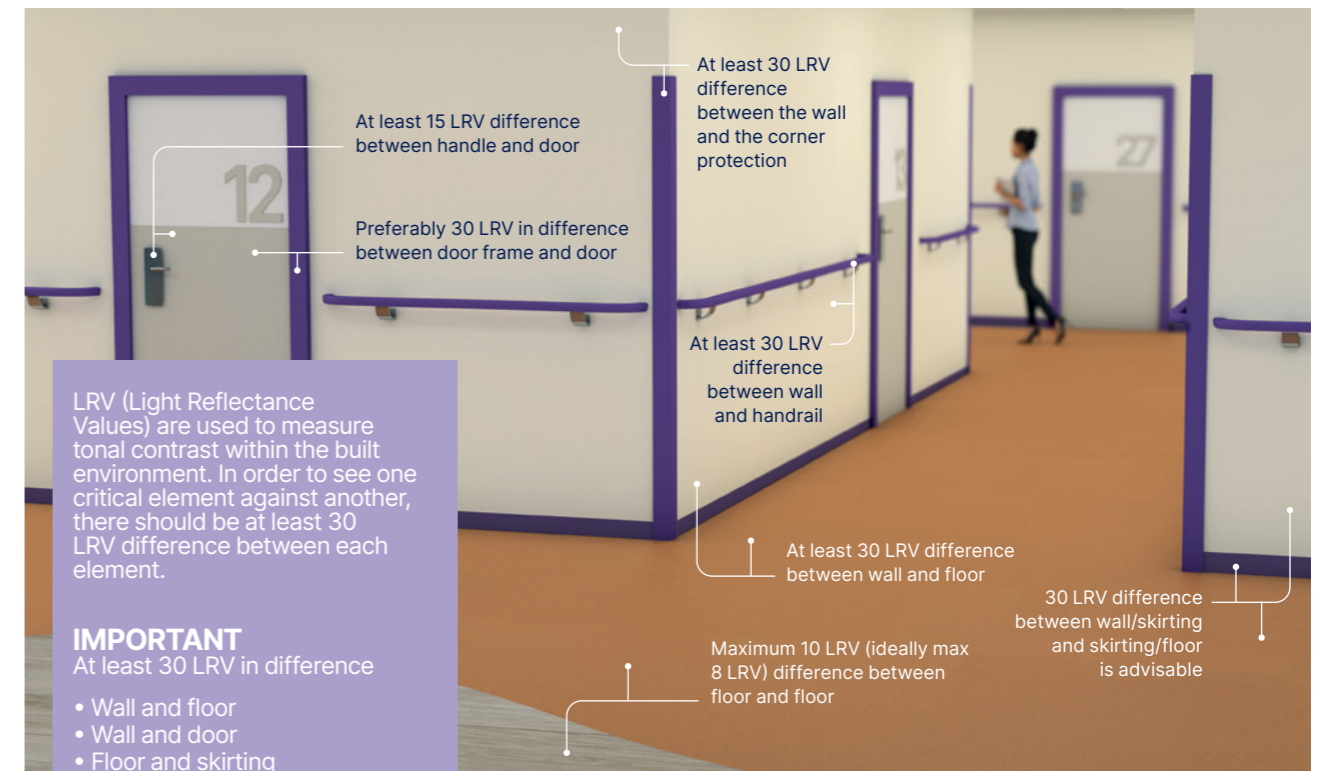


<https://www.dementia.stir.ac.uk/>

## Respect contrasts

### How can we make the surrounding environment Dementia friendly?

Colours need to contrast to ensure visibility within spaces and give a 3D enhancement to the environment. As people living with dementia age and the condition progresses, their eyesight can change. Contrasting walls and floors, tables and chairs, and even sets of plates and bowls, ensure that everything is noticeable and recognisable.



LRV (Light Reflectance Values) are used to measure tonal contrast within the built environment. In order to see one critical element against another, there should be at least 30 LRV difference between each element.

**IMPORTANT**  
At least 30 LRV in difference

- Wall and floor
- Wall and door
- Floor and skirting
- Wall/door and sign
- Wall and handrail



## Avoid falls and trips

- Tonal contrast is one important factor that must be considered.
- This is because persons who have dementia frequently struggle to recognise contrasts between surfaces.
- It's crucial that people living with dementia can distinguish between the ends of the floor and the walls that surround them.



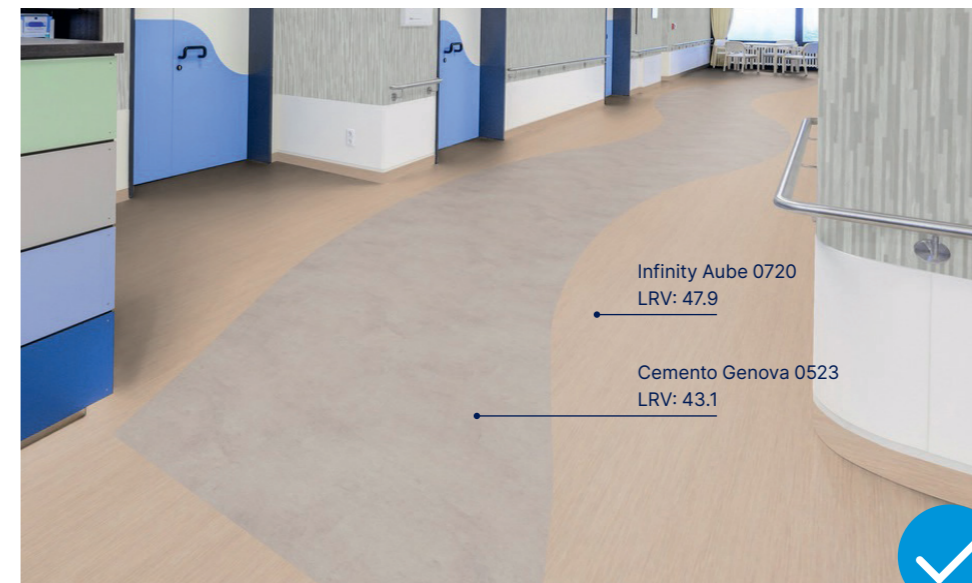
LRV differential  
of Floor/Wall  
>30 points



LRV differential  
of Floor/Wall  
<30 points

## Falls also caused by high stepping

- The floor should feel and appear to be one continuous surface in its ideal state.
- It is essential to choose flooring materials for adjacent areas that have LRVs that are close to one another and have complementary tones.
- The threshold strips between two floor surfaces have to be similar tone ideally within 3 LRV of each other.



LRV differential  
of Floor/Floor  
<10 points



LRV differential  
of Floor/Floor  
>10 points



## Door colours are also important !



LRV differential of Wall/Door  
<10 points = Staff Door

- Utilize the colours of the door to control entry to various rooms and zones.
- If at all feasible, provide each end user with a unique door colour to personalise the room entrance; door colour is only one way to achieve it.



LRV differential of Wall/Door  
>30 Points = Public Door

## Handrails contrast to the walls

- For safety, it is important that handrails are visible.
- Use LRV value to highlight them.



LRV differential  
of Wall/Handrail  
>30 Points



LRV differential  
of Wall/Handrail  
<30 Points



# Where to find LRV Values ?



LRV values are available for all Gerflor floorings and walls solutions.

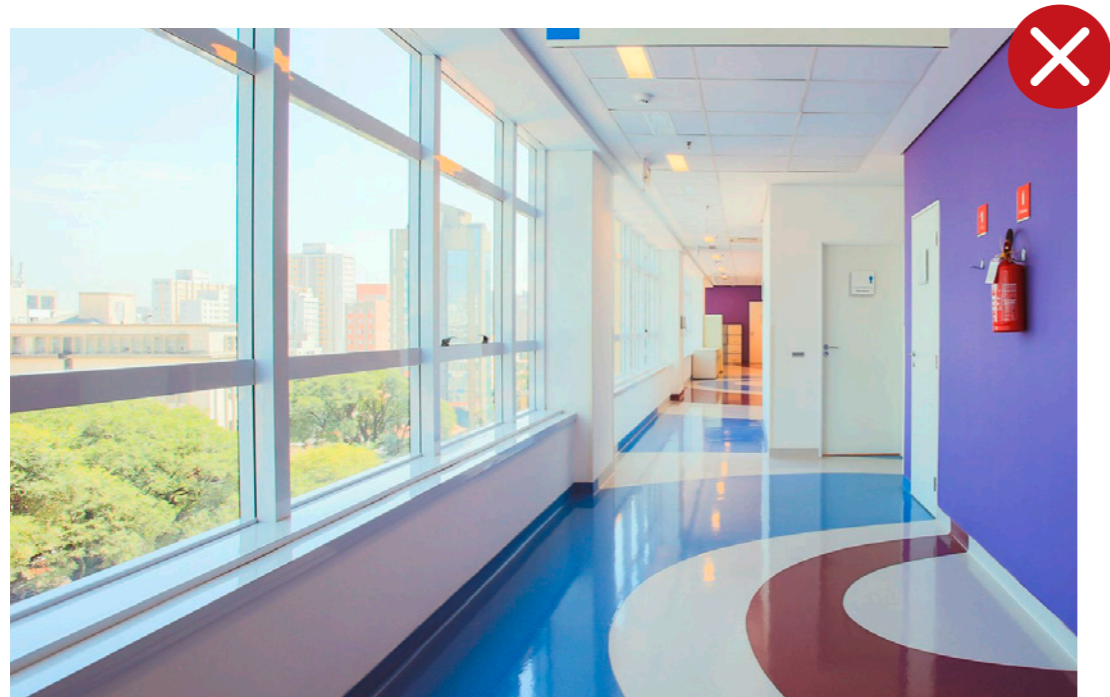
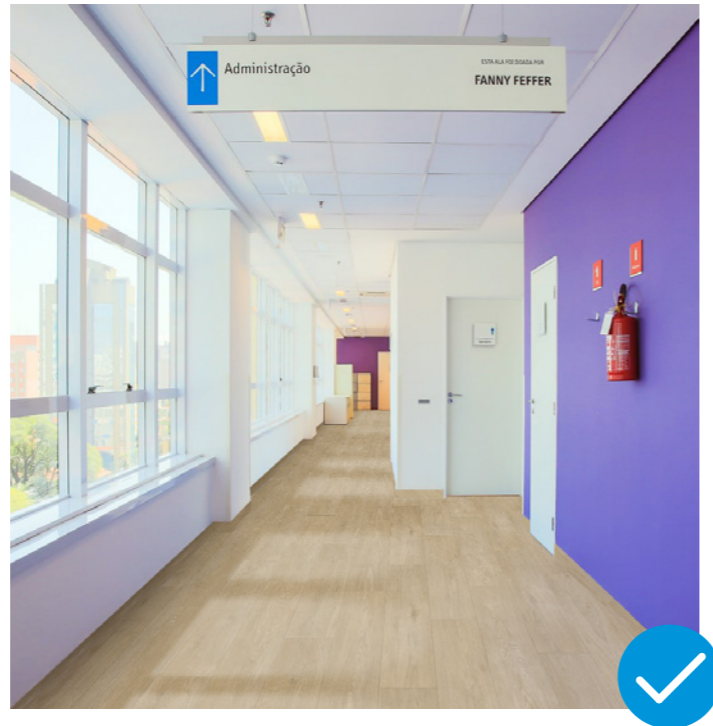




# Pay attention to patterns, designs and visual aspects

## Avoidance of erroneous moves and confusion

- It's important to keep the flooring design free of contrasting colours and patterns. Plainer floor designs are more suitable for dementia inclusive environments.
- These can be perceived as changes in level or things to avoid and may lead to trips and falls.



## Control the shine

- It is important to select flooring options without any shine or sparkle effect in their design since these elements may be seen as a wet floor surface by someone with dementia, disrupting their gait and raising the possibility of a slip.



Shows minimal glare and reflection which is ideal for a dementia inclusive interior.

Shows potentially confusing patterns on the floor caused by reflections and glare from artificial lighting.





## Blend the dots into the principal floor's surface colour

- A large tonal contrast between the secondary flecks and the primary floor tone should be avoided when using speckles or secondary flecks in the flooring material.
- Dementia patients could mistake the specks for pieces on the floor and try to pick them up to toss them away.
- Flooring with slight tonal secondary flecks or a solid colour is preferred.



Is a good example of tonally consistent flooring. The secondary colour within the pattern is tonally close to the main background colour.



Shows an example of flooring to avoid using in dementia inclusive environments. The light edges contrast noticeably with the main background colour and this creates tonal inconsistency and could be perceived as undulations or movement within the flooring.



Cemento Brescia 0543  
LRV: 32.5



# DSDC Accreditation Levels



Rating	Rating Description	
<b>class 1a</b>	Flooring within this rating are plain and can be used indiscriminately.	
<b>class 1b</b>	Flooring within this rating are semi-plain (minimal texture or fleck / and or minimum contrast between fleck / pattern, wood effect with no knots) and in general, can be used throughout. Natural patterns such as timber and stone may be used in most areas due to their familiarity but with a degree of caution.	
<b>Class 2</b>	Flooring within this rating have some pattern and need to be used with caution. The natural patterns such as timber & stone in this range are more figured / patinated and although still familiar they need to be used with more caution than the above range.	
<b>Not suitable</b>	Flooring within this rating have strong pattern, flecks and / or are highly reflective & are not suitable for use in areas used by people with dementia. Tessellated tile arrangements are not considered appropriate irrespective of pattern. This rating incorporates stripes, flowers and dots which could be seen as dirt or something to pick up. Thus, it is possible that some people with dementia, particularly if on anti-psychotic drugs, may have an adverse reaction to these patterns. Thus, it is possible that some people with dementia, particularly if on anti-psychotic drugs, may have an adverse reaction to these patterns.	

## Accredited floorings ranges by the DSDC

	Product Range	Colourway	Colour code	LRV	DSDC Stirling Rating	Notes
TARALAY IMPRESSION		Uni Matt Brick	1090	23	1a	Totally plain & matt
		Uni Matt Copper	1089	21,3	1a	As above
		Uni Matt Corail	1091	28,4	1a	As above
		Uni Matt Dark Beige	1088	36,8	1a	As above
		Uni Matt Dark Green	1079	14,1	1a	As above

	Product Range	Colourway	Colour code	LRV	DSDC Stirling Rating	Notes
TARALAY IMPRESSION		Uni Matt Green	1080	32,6	1a	Totally plain & matt
		Uni Matt Grey	0832	43	1a	As above
		Uni Matt Indigo	1078	34,1	1a	As above
		Uni Matt Jungle Grey	1084	29	1a	As above
		Uni Matt Lagoon	1081	38,6	1a	As above

	Product Range	Colourway	Colour code	LRV	DSDC Stirling Rating	Notes
TARALAY IMPRESSION		Uni Matt Light Beige	1092	48,2	1a	Totally plain & matt
		Uni Matt Light Green	1082	46,9	1a	As above
		Uni Matt Navy	1083	9,1	1a	As above
		Uni Matt Poudre	1086	29,9	1a	As above
		Uni Matt Teal	1085	17,7	1a	As above
		Uni Matt White	0848	64,3	1a	As above
		Uni Matt Yellow	1087	53,7	1a	As above
		Riverside	1057	13	1b	Mottled effect which could look slightly patchy
		Cemento Brescia	0543	32,5	1b	Some blotchy patches which are relatively noticeable
		Cemento Capri	0524	21,8	1b	The mottled effect is much more subtle
		Cemento Firenze	1025	22	1b	Some scratches and spots with a slightly patchy effect
		Cemento Genova	0523	43,1	1b	The mottled effect is much more subtle
		Cemento Napoli	1024	33,8	1b	As above
		Cemento Roma	1026	37,8	1b	As above
		Finesse Brown	1063	36	1b	Not totally plain
	Finesse Nature	1064	37,6	1b	As above	
	Finesse Paille	1065	44,5	1b	As above	

	Product Range	Colourway	Colour code	LRV	DSDC Stirling Rating	Notes
TARALAY IMPRESSION		Finesse Poudre	1066	40,5	1b	Not totally plain
		Gentlemen Clear	0770	46,2	1b	As above
		Gentlemen Denim	1068	23,2	1b	As above
		Habana 3D Vinales	1070	35,5	1b	There is larger scale figuration
		Infinity Aube	0720	47,9	1b	Not totally plain
		Infinity Greige	0680	33,1	1b	As above
		Nature Oak Blond	1053	36,8	1b	Some dark spots, knots and figuration
		Nature Oak Brown	1054	22,9	1b	As above
		Nature Oak Clear	1055	41,2	1b	Some knots but overall consistent tonally
		Nature Oak Dark	1056	25,5	1b	Some dark spots, knots and figuration
	Noma Ice	0373	52	2	There is a stronger & larger scale figuration	
	Habana 3D Trinidad	1069	24,7	2	Knots are noticeable and some strong figuration	
	Charme Kraft	1093	26,9	2	Tonally less consistent due to some lighter edges on plank pattern	

The DSDC Accredited product logo is awarded on the merit of the individual product and colourway. This accreditation does not merit the final application. Whilst every endeavor has been made to ensure the ratings are reflective of the product's suitability and applied use at the time of print, DSDC cannot be held responsible for the application of the final product, its performance or its interface with other products or finishes.



**we care / we act** Our Commitments for a Sustainable future



**CARBON FOOTPRINT\***  
-20 % kg

CO<sub>2</sub> equivalent/m<sup>2</sup>  
between 2020 and 2025



**BIOSOURCED CONTENT\*\***  
10 % by 2025



**RECYCLED CONTENT**  
30 % by 2025



**ADHESIVE FREE\*\*\***  
35 % by 2025



**ANNUAL VOLUME RECYCLED**  
60 000 t by 2025



\* Scopes 1 and 2 defined in the GHG protocol \*\* % of activity with biosourced materials \*\*\* % of activity - adhesive free solution