



HUMAN CENTRIC DESIGN THROUGH COLOUR AND PAINT

FOR OFFICES, HEALTHCARE
AND EDUCATION





COLOR DESIGN OPPORTUNITIES

Color design in public spaces is challenging, however colors applied in the right way provide strong opportunities. Designing color schemes for spaces happens in the context of settings and situations and our reaction to color is strongly influenced by light, its neighboring colors and other environmental factors *₁. Studies show that the impact of color in spaces depends upon individuals’ sensitivity towards the environment, their color preference and time of exposure to interior colors. Also, physiological factors such as age, eye fatigue and visual- and color deficiency play a role in space perception *₂. Yet we believe it is possible to give direction and suggestions for color combinations that work in different areas and that benefit the all users.

Based on these insights and research we designed this brochure with easy to apply color-palettes for offices, education and healthcare environments. We share our color-knowledge to help you improve the lives of your customers and their users.

* Source 1: <https://www.cleverclassroomsdesign.co.uk/reports-guidance>
* Source 2: Cholor and lighting in hospital design, Dalke and others, Kingston University (2006) <https://eprints.kingston.ac.uk/id/eprint/23109/>



BRINGING SURFACES TO LIFE

Well-designed spaces can impact our behavior and feeling of well-being. The use of color plays a vital role, the color approach can vary per space and highly depends on the needs of the users in that specific space. We believe that there is an additional, underutilized dimension to building design –color this element considers more than building function and aesthetics.

For all kinds of spaces, lifestyles and life-stages, we offer color and paint solutions for comfortable environments that improve the feeling of wellbeing. As well as safe-guarding national treasures and icons, you can expect us to consider the desired user-experience of a building. Whether working on a school redevelopment, a work-place refurbishment, or a new hospital construction project – we will help you deliver product- and color specification that focuses on the user's experience. We are taking up the challenge of 21st century living and offer help to building-owners to deal with trends affecting human health and performance. As well as environmental sustainability, social sustainability remains high on our agenda. The built environment, architecture, can play an important role in enhancing individual well-being. As a result, we believe that it's our role to inspire to high quality building design through color.

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HUMAN CENTERED DESIGN

With our People. Planet. Paint. approach to sustainability, we want to play a positive role in creating a brighter, more sustainable future for our planet and our communities. Our mission is to add color to people's lives. We do this by creating harmony between spaces and the people living or working within them.

We believe in optimized building design that enables people to thrive. We are committed to finding new possibilities for working in partnership with others to deliver innovative, high quality, sustainable solutions to our customers – enabling us all to continue to thrive and feel productive, despite the ever-growing demands on our daily life. This requires a fresh look at interior spaces and building design. Research has shown that color can elevate spaces. This brochure gives you the color-insights and color-rational you need to make a space, a place where people can be more productive, better focused, more at ease, or better supported. We believe that well executed color design promotes enhanced well-being and productivity. In everything we do, we try to focus on the experience of the user of buildings as part of our human- or occupant centered design approach. In this brochure we will help you to develop color design-solutions that can improve the overall experience of all users.

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THE SPACE TO SPACE APPROACH

The importance of the human-, functional- and corporate design objectives may vary per space and highly depends on the needs of the users in that specific space. Good color design provides color schemes that can be applied to support the purpose of the spaces and how people use them, while maintaining a unified design for the building as a whole *3. For example, when you enter a hospital, it is important that you can easily find your way, while in a waiting room you want to feel at ease. At the same time these spaces need to feel connected, the color-approach has to come from the same design-idea. Our color palettes for various spaces within one building cater for the need of the specific space and connect the spaces at the same time.

* Source 3: Color, Environment, and Human Response, Frank H. Mahrke, Van Nostrand Reinold, NY, USA, 1996

HUMAN FACTOR

improve the overall experience of all users of the building



FUNCTIONAL FACTOR

manage spaces, while also improving navigation and orientation



CORPORATE FACTOR

image-building, reputation and ambiance of the building



THE SPACE TO SPACE APPROACH

KNOWING YOUR USER

Whatever project you are working on, we advise to take the following color design considerations into account:

Knowing the user:
Our reaction to color is related to our perception which is an interpretation of the user of the space and his sense of well-being. Knowing the user, whether they are employees, pupils, patient or visitors is vital.

Design for all:
Whenever color is used for the coding of information, color deficiency should be considered. “Design for all” means inclusive design that takes color- and visually deficiency in consideration.

Involve the user:
General redecoration can have an enormous effect on appearance, boost morale and raise interest, especially if you involve the users of the building in the color design process. This will make them co-owners of the design.

In this brochure we provide you with research-based color-schemes and detailed color-information for office spaces, education environments and healthcare facilities. Based on the scientific insights and the space-to-space approach, we designed color-palettes for various sectors, spaces and user-moments. The easy-to-use palettes show you the best colors and color-combinations for ceilings, walls and accent-areas.



AVOIDING COMMON DESIGN MISTAKES

Color design decisions can be challenging. Below some examples and tips that illustrate that, taking the right color decisions, is more easy using this brochure

1. WAY FINDING



Lack of color contrast between the critical surfaces; walls, floor and doors can make it more difficult for those with visual impairments to navigate unfamiliar spaces. Add accents to make sure users can find their way, using color as signage with the right contrast improves navigation.

2. CONTRAST



A clinical, white room environment can cause glare, impacting negatively on concentration, where color on the wall can aid focus. This brochure will help you to select the right colors to avoid over-stimulation. While at the same time improving the indoor environment.

3. LIGHT REFLECTION VALUES



Color on handrails, carpets and pillars should contrast with the wall color with at least a minimum difference of 30 points of Light Reflectance Value. The LRV expresses the percentage of light that is reflected from a surface. To improve safety, it's important areas differentiate from each other. Color is an easy way to do this.

4. ZONING

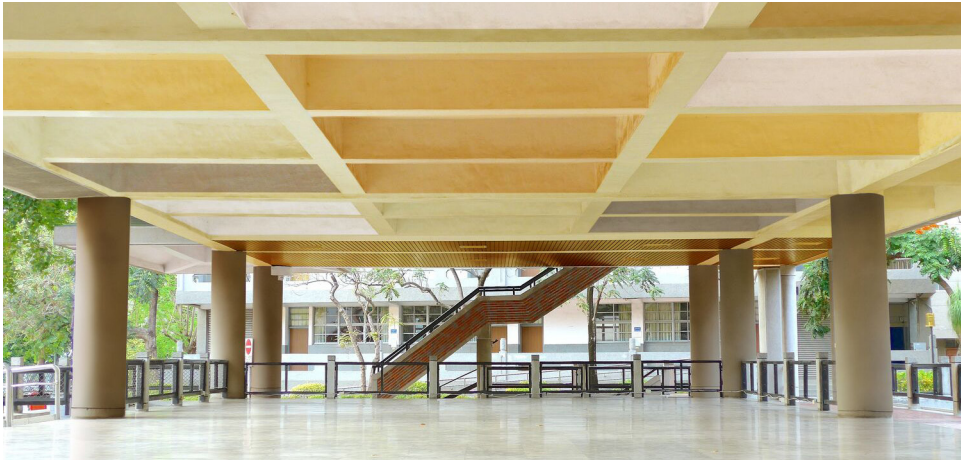


Creating a distinct contrast between walls and floor supports navigation for those with visual impairments and this clearly defined walkway adds a smart finish to the fresh and upbeat office design, where zones are created through wall and furniture color.

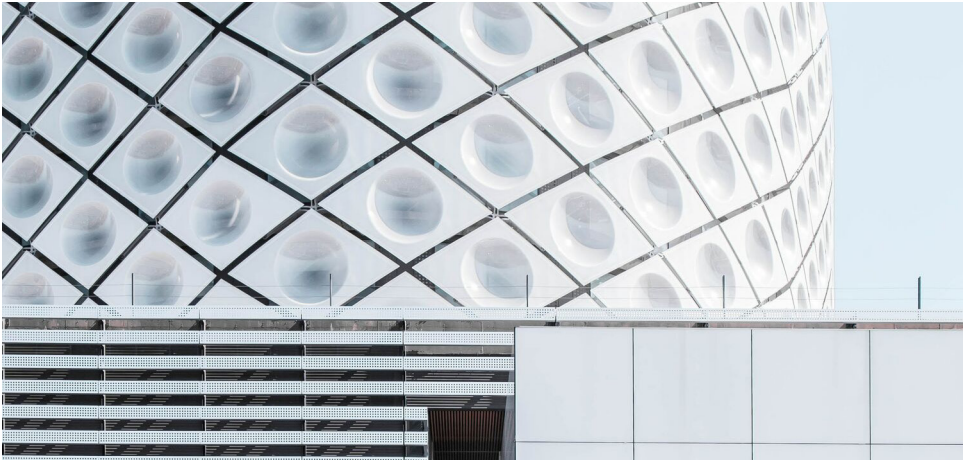
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DESIGNING FOR OFFICES



DESIGNING FOR OFFICES

CHALLENGE

We spend much of our day in workplaces designed to let our minds thrive. Well-being in an office environment often stems from employee satisfaction as well as working together with others and being part of a team. In the past the well-being and health of employees in context of the office environment were, hardly considered. Now more and more business managers recognize that the conditions in the workplace influence the people who work there. Several studies statistically show that office environments affect our well-being, motivation, job satisfaction and operational productivity.

Source: BRE. Biophilic Office

COLOR SOLUTION

Lighting, climate, natural elements, acoustics, flooring, visual ergonomics and floor space efficiency, have to be considered in relation to color. Health and wellbeing gains can be achieved through expert application of color and design and use of products that reduce VOC emissions. Where it comes to color-design in office environments, there are options to consider. Tonal color combinations tend to be more tranquil, compared to combining two different hues. Muted colors create comfortable environments. Lighter shades make spaces appear bigger. Matt finishing avoids reflected glare and uncontrolled brightness. Rhythmic color arrangements produce variety in large open spaces. We designed color palettes to illustrate this, identify the type of space and use the color options of the Offices Color Palette for ideas and inspiration.

1

Color design can be used as an image factor. First impressions count! Overall appearance and the way a company presents itself can have an impact on visitors.



2

Use color in corridors – this can be particularly helpful for wayfinding, especially as the trend continues to rent office space in large shared buildings.



3

Identify what you want to improve, the type of space and use the color options of the Offices Color Palette for ideas and inspiration.



OFFICES COMMUNAL SPACES

ceiling & wall

G9.13.85 83YY 80/18	E8.07.77 10YY 65/095	D5.03.82 70YR 74/045	D4.04.71 67YR 56/055	GN.01.88 83YY 88/033

wall

F8.31.69 45YY 51/365	E4.29.62 98YR 41/326	D2.10.70 59YR 53/163	B0.07.55 90RR 31/100	F6.06.69 40YY 51/084

F6.60.70 39YY 52/691	E0.50.50 75YR 27/487	C4.40.50 28YR 25/461	Z2.32.26 30RR 10/321	CN.02.47 04YR 24/029

accent & feature wall

F6.60.60 37YY 38/594	D0.47.33 50YR 12/406	C3.56.32 17YR 13/463	Z9.19.20 48RR 08/146	CN.01.23 62RR 09/009



Public spaces are not only designed for communal activities, but also as a first impression to visitors. These areas include meeting and conference rooms, as well as receptions, cafeterias and lounges. Colors should be inviting & welcoming, complemented with colors reflecting the workplace's culture & identity. Different colors can be helpful in defining separate departments, floors and to differentiate various facilities. Bold colors attract attention and can provide visual directions and focus in corridors.

OFFICES WORKSPACES

ceiling & wall

F5.04.85 41YY 82/071	GN.02.90 65YY 90/062	J9.07.78 50GY 66/111	S1.05.82 90BG 72/063	ON.00.90 81YR 85/004

wall

F1.11.77 20YY 63/149	G1.13.79 54YY 71/171	H7.18.71 10GY 54/238	S6.15.65 08BB 46/152	ON.00.78 17GY 68/005

D5.13.72 70YR 56/190	F7.25.70 41YY 53/306	H7.15.53 10GY 29/158	T0.20.40 18BB 19/153	SN.02.67 95BG 49/025

accent & feature wall

C3.46.30 21YR 13/383	F1.64.54 20YY 28/613	H2.50.60 88YY 38/53	S6.30.20 10BB 07/150	ON.01.26 26BB 10/008



Space-efficient designs, colors, ergonomics & functionality are necessary for office workspaces. Yet the correct color balance is essential for standard workstations where intense focus is needed. Ideally, no more than two different hues should be combined. Paler colors, in general, are a good choice for workplaces. Soft yellow, sandstone, pale orange, soft green and blue green are always appropriate. Don't forget to use saturated accent colors though, they can help enliven plain workplaces as accents.

OFFICES **INDIVIDUAL WORKING SPACE**

ceiling & wall

JO.05.85 99YY 77/080	LN.02.77 94GY 66/038	SO.05.85 82BG 79/062	T5.04.81 30BB 73/052	ON.00.86 75GY 81/005

wall

H1.21.68 90YY 48/255	N6.08.70 68GG 53/098	SO.09.71 83BG 55/097	U1.06.71 50BB 54/079	ON.00.69 49GG 52/001

accent & feature wall

H8.12.61 10GY 39/136	P1.24.61 90GG 38/242	R5.21.61 69BG 40/190	T3.14.55 32BB 33/133	SO.05.45 95BG 23/044
JO.50.50 21GY 28/472	PO.50.40 78GG 19/378	S9.30.40 15BB 19/227	U0.20.20 52BB 08/128	T7.05.25 42BB 09/032



Private workplaces are where individuals have their privacy to concentrate on their tasks. These spaces require soft or mid-tone colors to encourage focus and concentration. Because of its tranquil, calm and natural qualities, green, especially pale green, along with blue green provides a good environment for tasks involving high concentration. In contrast, large amounts of vibrant colors should be avoided.

OFFICES **SUPPORT AREA**

ceiling & wall

CN.02.88 93YR 86/030	HN.02.88 77YY 86/032	RN.01.85 56BG 81/023	UN.03.81 70BB 73/035	ON.00.83 13GY 77/016

wall

CN.02.76 30YR 63/031	G4.05.77 64YY 65/071	LN.02.67 80GY 50/031	VN.02.67 10RB 47/036	ON.00.76 88BG 62/005

accent & feature wall

E0.60.50 76YR 27/558	F5.72.71 34YY 55/802	K2.60.40 59GY 20/482	Y1.22.29 90RB 12/225	ON.00.50 31BG 26/004
C2.59.33 19YR 13/558	H2.60.60 91YY 40/628	S7.51.34 10BB 13/362	V3.34.18 91BB 07/263	ON.00.10 81YR 06/003



Support areas are often centrally located within work-places. Such areas should be easily identifiable & accessible to everyone in the workplace. This can be attained by high contrast in both lightness and color intensity. Bold colors can help with the navigation & organization of these spaces. The light, neutral colors help illuminate dim spaces such as archives and parking.

DESIGNING FOR EDUCATION



DESIGNING FOR EDUCATION

CHALLENGE

Schools, colleges and universities are unique places. They must support learning and stimulate the senses, yet allow for concentration. Increasingly, learning environments must additionally balance that requirement to be more robust and inspiring, with the need to provide safe and nurturing environments that are flexible enough to support complex behavioral needs and provide the sense of well-being.

COLOR SOLUTION

We aim to help students to thrive through the power of their environment. Well-designed schools influence the behavior, motivation and performance of their users and impacts feelings of happiness and excitement. We worked closely with the Sussex University to identify the impact of color on children’s performance in school *6,*7. The outcome of this scientific study has been used to design our color schemes. For various spaces in education-environments. Hallways, classrooms as well as sports areas and even staff-rooms, they all have different color requirements to make them well performing spaces for their users to thrive. Next to easy to use color-palettes our products ensure durability and wash-ability, qualities that are an immediate priority for the hard-wearing common areas, such as atriums and corridors, that experience high foot traffic.

* Source 6: The effect of colour on children's cognitive performance. Brooker, A., & Franklin, A. University of Sussex (2015). <http://www.sussex.ac.uk/psychology/colour/projects>
* Source 7: A holistic, multi-level analysis identifying the impact of classroom design on pupils’ learning, Building on Environment 59 678-689, P. Barret et. Al University of Salford, 2013

1

Use the Education Color Palette, identify the type of space, review the color and product options selected for that space. Don’t forget to involve the users.



2

Intense red significantly hurts performance of students (by approx. 6%) and should be avoided in classrooms. Over-use of white can cause glare, making concentration more difficult. Use mid-tone colors behind whiteboards whilst keeping other walls neutral, this will help focus attention on the learning wall.



3

Color provides an excellent element for way finding. Different corridors, classroom pods, clusters or wings of a building can be color-coded to help children develop a sense of location in a large school.



EDUCATION **CORRIDORS**

ceiling & wall

DN.03.85 50YR 83/O40	F9.04.83 53YY 77/O64	LN.00.86 50GG 83/O11	ON.01.86 50RB 83/O05	GN.00.88 93YY 89/O12

wall

CO.04.78 21YR 67/O74	G4.15.84 63YY 79/219	M3.08.82 30GG 75/111	R6.11.74 70BG 59/124	SN.00.76 30BB 62/O04

accent & feature wall

A5.27.27 70RR 10/250	F6.60.70 39YY 52/691	L1.38.56 90GY 33/408	S9.35.56 11BB 35/316	SN.02.58 12BB 35/O25
C6.59.36 30YR 15/550	E8.58.54 10YY 30/560	H2.50.70 93YY 52/598	T4.36.27 30BB 11/244	ON.00.31 87YR 12/O05



In corridors, colors chosen must ease navigation and aid recognition. Colors used to differentiate critical surfaces should vary by at least 30 points in their light reflectance values for optimal clarity. Different corridors or wings of a building can be color-coded to help users develop a sense of location in a large school. At the same time, colors can give a school its distinctive personality and identity, especially at the entrance.

EDUCATION **AUDITORIUM**

ceiling & wall

ON.01.87 30BB 83/O01	TN.02.82 04BB 75/O27	WN.02.82 23RB 76/O36	ZN.00.87 99YR 80/O20	C7.04.83 50YR 78/O64

wall

R9.06.73 85BG 59/O64	TO.10.70 14BB 55/113	W2.04.69 30RB 50/O72	A5.04.73 70RR 57/O70	C6.22.61 38YR 40/290

Q4.20.38 30BG 16/133	T4.20.39 30BB 17/158	W4.13.37 30RB 16/144	Z9.24.26 50RR 10/229	B9.50.36 10YR 15/500

accent & feature wall


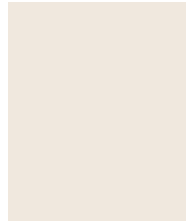
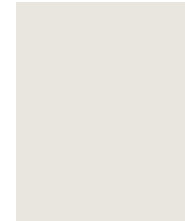

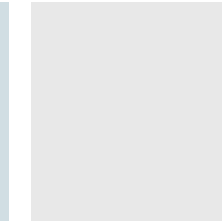
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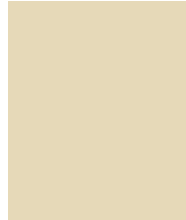


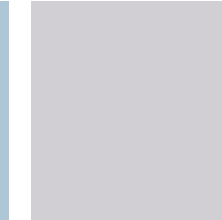
School events, theatrical performances or presentations, the auditorium serves many functions and purposes. As assembly space for mass gatherings, the atmosphere in auditoriums needs to be warm, inviting and comfortable. Warm neutrals in combination with darker colors, such as purple, navy, dark red or green make the space look and feel more intimate. In addition, textures and materials in the auditorium, even the amount of glass used, help define the visual experience within the space.






EDUCATION **CLASSROOMS**

ceiling & wall






 DN.00.87 60YR 83/026	 F6.03.86 40YY 83/043	 HN.02.85 89YY 80/039	 S1.05.81 67GY 40/437	 UN.00.87 30BB 83/013
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wall

 E0.10.80 86YR 70/136	 G1.13.79 54YY 71/171	 KO.05.77 50GY 65/084	 S1.12.72 90BG 56/125	 WN.01.77 30RB 64/030
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 E8.40.60 04YY 39/480	 F9.43.74 50YY 60/538	 J3.23.69 30GY 51/294	 TO.10.60 10BB 39/100	 W2.04.59 30RB 36/055
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accent & feature wall

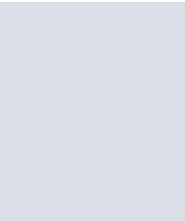
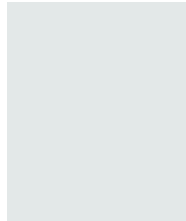
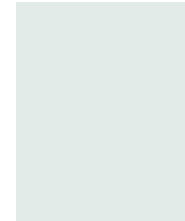
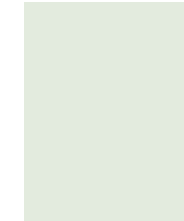
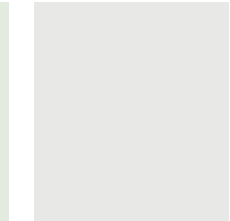
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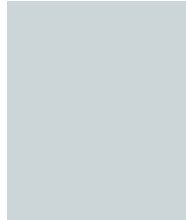
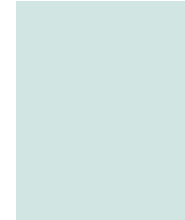

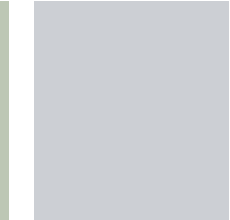
Classrooms have to accommodate many students through their times of learning and reflecting. Such spaces have to encourage focus and concentration. For classrooms subdued colors work best. Warm, earthy tones reduce anxiety, while soft, muted cool colors enhance concentration. Avoid overuse of deeply saturated bright hues as this will create too much stimulation as children will have a hard time focusing. Use color behind whiteboards whilst keeping other walls neutral. This will help focus attention on the learning wall.






EDUCATION **ART CLASS**

ceiling & wall

 T4.05.83 29BB 75/065	 RN.01.85 56BG 81/023	 NN.01.85 70GG 83/023	 J9.03.86 50GY 83/060	 ON.00.88 00NN 83/000
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wall

 TO.10.70 14BB 55/113	 R7.04.78 61BG 68/049	 N9.05.83 75GG 77/065	 J9.07.73 50GY 57/096	 UN.02.76 70BB 64/035
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 T3.14.55 32BB 33/133	 R4.05.62 70BG 40/050	 N6.08.70 68GG 53/098	 J0.05.65 20GY 46/067	 RN.01.61 50BG 38/011
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accent & feature wall

 U6.09.35 70BB 15/081	 S2.13.39 90BG 17/090	 P1.21.54 90GG 30/195	 K0.05.47 52GY 24/050	 ON.00.10 50BG 38/012
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Academic research shows there is a tendency for blue and green to enhance creativity & originality. Light, minimal, neutral but inspiring colors work well since displays of students' artistic endeavors are what bring art rooms to life. Of all the rooms in a school, the art room should have the windows to the best view to inspire learning and creativity. Bright white walls are best avoided because they reflect light, which causes strain and fatigue on the eyes.

EDUCATION **SPORTS FACILITIES**

ceiling & wall

SN.00.81 30BB 72/003	PN.02.82 85GG 76/039	HO.01.86 30GY 83/021	GO.03.81 90YY 73/040	GN.00.85 81YY 81/016

wall

TN.01.71 30BB 53/012	Q5.04.72 30BG 56/045	HN.02.77 96YY 66/036	G5.07.77 70YY 65/090	GO.05.75 54YY 63/072

RN.01.38 03BB 17/015	S1.09.41 93BG 18/066	JO.10.60 12GY 39/101	G5.13.66 70YY 46/160	F3.17.59 30YY 36/185

accent & feature wall

GO.60.70 50YY 53/687	R5.29.55 92YY 51/593	H2.49.69 92YY 51/593	D2.50.50 48YR 26/519	B2.40.40 88RR 18/464



Sports give students a balance between their physical health and intellectual development, at the same time stimulating students’ determination and healthy competitive spirit. There are no hard and fast rules on color for sports facilities, however, avoid bright white in large areas which may lead to visual discomfort. Using cool, unobtrusive tones is one key tip. Large expanses of vivid color can be too distracting in such a hectic environment. Using split colors for the upper and lower sections of the walls helps with visibility.

EDUCATION **STAFF ROOM**

ceiling & wall

G3.03.87 67YY 88/044	FO.03.87 20YY 83/038	FN.01.86 40YY 83/021	LN.01.82 10GG 72/022	SN.02.77 84BG 66/028

wall

F4.06.78 30YY 67/084	D6.07.77 75YR 64/102	FO.06.64 20YY 43/083	J2.04.59 37GY 38/050	SO.05.45 95BG 23/044

E8.20.60 11YY 37/219	D2.20.50 57YR 27/226	F2.10.40 21YY 18/079	ON.01.26 26BB 10/008	TO.10.20 20BB 08/051

accent & feature wall

F6.45.56 40YY 34/446	C4.40.50 57YR 27/226	B1.18.51 90RR 28/245	J9.21.65 50GY 44/248	P2.15.51 90GG 28/133



When class ends, not only do students need their space for rest & play, teachers need their own space too. Relaxing, restful and uplifting colors in staff rooms keep teachers motivated to see students through their learning journeys. Accent colors help spark a sense of energy in spaces within staff rooms. By managing contrast in lighting and color you can create a space that stands apart from other spaces, giving teachers the opportunity to step out their daily environment for a while.

DESIGNING FOR HEALTHCARE



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DESIGNING FOR HEALTHCARE

CHALLENGE

The past years a lot of research has been done to the hospital's visual environment in order to find solutions for problems related to the quality of healthcare facilities. Think of the growing healthcare consumption (partly due to aging), patient recovery as well as the motivation, recruitment and retention of hospital staff. Aesthetics and environment quality are considered to be increasingly important. Cold, formal, inaccessible antiseptic hospital environments are more and more replaced by more friendly and welcoming, attractive areas with color, variety and interest for patients, staff and visitors.

COLOR SOLUTION

When applied with the users' needs in mind, color can improve patient's quality of life, reduce feelings of stress and anxiety aiding recovery. In more practical ways color can be an invaluable tool, aiding wayfinding and navigation *8,*9. Optimal and appropriate color design, but also lighting, materials, art, planting, interior climate and acoustics can contribute to an environment that promotes a sense of well-being for all users of the building. Healthcare spaces need to be friendly and visually attractive, where the well-being of patients is enhanced, staff feel more motivated and visitors are greeted with a warm welcome.

* Source 8: Color and Lighting in hospital design, Hilary Dalke e.o. Color and Lighting in hospital design, article Optics & Laser Technology 38, Elsevier Science, 2006 article Optics & Laser Technology 38, Elsevier Science, 2006
* Source 9: Color Communication in architectural space, G. Meerwein, B. Rodeck and F.H. Mahnke, Birkhäuser Verlag AG, Basel, Switzerland, 2007
* Source 10: <https://www.duluxtradepaintexpert.co.uk/en/advice/knowledge/creating-colour-contrast-line-equality-act-guidelines>

1

Using the Healthcare Color Palette, identify the type of space, review the color and product options selected for that space. Don't forget to involve users.



2

Colors can be used to differentiate between facilities. Clear colors with contrast, such as red, blue and yellow, are useful for zoning between different levels and spaces. Use a strong color at the reception to help guests identify it as a prominent point in the facility.



3

Elderly may have eyesight difficulty in differentiating between green and blue. Create contrast, a minimum of 30 points difference in light reflectance values is especially helpful for the elderly and visually impaired *10.

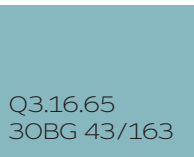
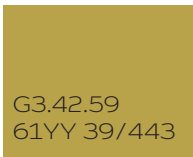
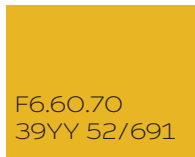
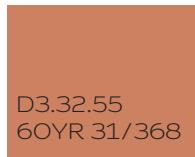

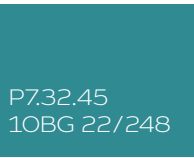
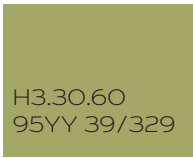
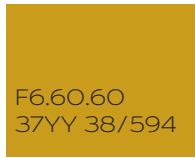
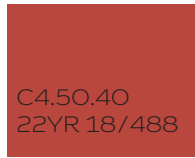



HEALTHCARE **COMMUNAL SPACE**

ceiling & wall

 MN.02.87 36GG 87/O38	 HN.02.88 77YY 86/O32	 G3.04.83 67YY 82/O72	 EO.03.83 98YR 78/O41	 LN.00.87 11GY 85/O16
 P0.04.83 95GG 78/O54	 H0.09.80 83YY 72/129	 F8.25.77 45YY 65/334	 D6.07.77 75YR 64/102	 G0.03.86 90GG 83/O11

accent & feature wall

 Q3.16.65 30BG 43/163	 G3.42.59 61YY 39/443	 F6.60.70 39YY 52/691	 D3.32.55 60YR 31/368	 G0.05.70 46YY 53/O62
 P7.32.45 10BG 22/248	 H3.30.60 95YY 39/329	 F6.60.60 37YY 38/594	 C4.50.40 22YR 18/488	 ON.00.45 28GG 22/O02



RECEPTION & CORRIDORS





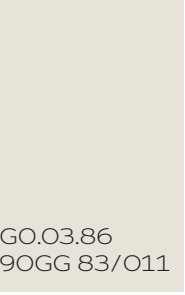
Highly visible, welcoming entrance lobbies and receptions help put anxious patients and visitors at ease. A comfortable environment with a sense of open space that is easy to navigate. Clear wayfinding signs, with contrasting colors also help guests easily access different spaces within a healthcare facility. Accessibility can be improved by using high contrast in colors.

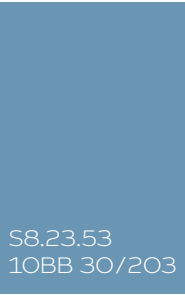
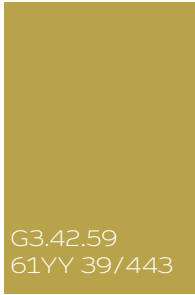

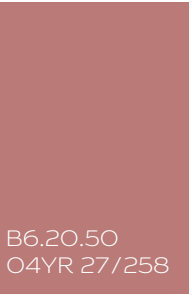
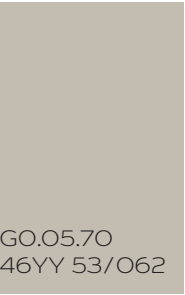
HEALTHCARE **COMMUNAL SPACE**

ceiling & wall

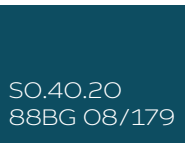
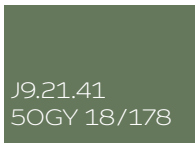
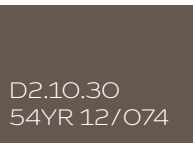
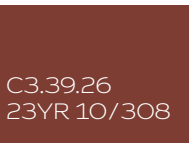
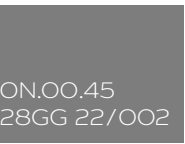
 S1.05.81 89BG 72/O60	 JN.02.83 30GY 76/O17	 E7.05.80 08YY 72/O77	 AN.02.77 67RR 66/O44	 LN.00.87 11GY 85/O16
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wall

 T0.10.70 14BB 55/113	 G4.05.77 64YY 65/O71	 F1.11.72 20YY 55/151	 C0.10.60 12YR 40/146	 G0.03.86 90GG 83/O11
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 S8.23.53 10BB 30/203	 G3.42.59 61YY 39/443	 E8.55.45 99YR 23/456	 B6.20.50 04YR 27/258	 G0.05.70 46YY 53/O62
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accent & feature wall

 S0.40.20 88BG 08/179	 J9.21.41 50GY 18/178	 D2.10.30 54YR 12/O74	 C3.39.26 23YR 10/308	 ON.00.45 28GG 22/O02
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WAITING AREAS

When in physical discomfort and with tensions running high, comfortable and reassuring waiting rooms can help reduce anxiety and stress. Simple domestic colors, combined with neutrals and some lively effects and decorative ornaments, create a more intimate environment that makes visitors feel at ease.

HEALTHCARE **COMMUNAL SPACE**

ceiling & wall

UN.O2.85 39BB 81/O32	MN.O1.86 45GY 83/O23	JN.OO.88 30GY 88/O14	E8.O3.85 21YY 82/O53	LN.OO.87 11GY 85/O16

wall

WN.O2.72 30RB 56/O36	J5.O3.71 45GY 55/O52	F6.14.78 40YY 67/196	E4.10.76 00YY 62/144	GO.O3.86 90GG 83/O11

U6.O9.58 70BB 35/108	J9.10.64 50GY 43/12	F6.35.68 40YY 49/408	D6.38.51 70YR 27/404	GO.O5.70 46YY 53/O62

accent & feature wall

VO.28.18 83BB 07/202	M9.21.31 51GG 12/132	F4.49.46 30YY 21/43	D6.49.39 62YR 18/397	ON.OO.45 28GG 22/O02



RESTAURANT

The restaurant in healthcare facilities should possess a different atmosphere compared to other areas in the building. An open and inviting restaurant attracts visitors. While its decor must complement the healthcare facility, soft lighting paired with brighter colors that are not too saturated are ideal. Since this is a place where visitors can relax and eat, the colors suport an air of warmth and informality.

HEALTHCARE **PATIENT ROOMS**

ceiling & wall

T3.O3.81 30BB 72/O40	S9.O3.81 10BB 73/O39	F8.O7.85 45YY 82/O98	CN.O1.87 30YR 83/O23	LN.OO.87 11GY 85/O16

wall

T5.O7.77 30BB 63/O84	R7.O4.78 61BG 68/O49	E7.O7.79 10YY 68/110	C9.O3.77 50YR 65/O56	GO.O3.86 90GG 83/O11

U1.O9.60 54BB 39/103	Q5.O4.72 30BG 56/O45	E8.30.60 10YY 38/316	B7.10.59 10YR 37/143	GO.O5.70 46YY 53/O62

accent & feature wall

U6.31.25 70BB 09/241	R6.14.65 70BG 44/129	EO.50.50 75YR 27/487	B6.30.40 04YR 18/324	ON.OO.45 28GG 22/O02

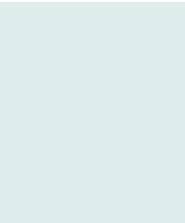
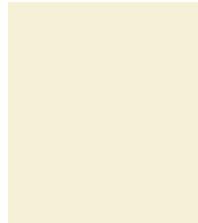
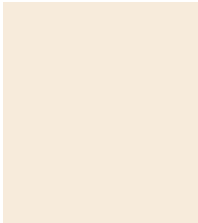
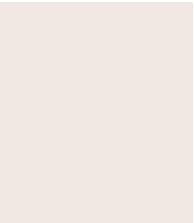
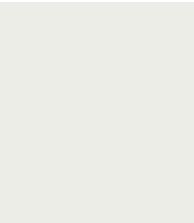


PATIENT ROOMS



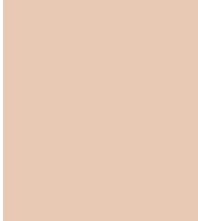


Calm and comfortable patient rooms are a safe hav-en to retreat to for rest and recovery. Colors have to be carefully selected and light delicately positioned. In gen-eral, limit the use of high intensity hues on large areas to help accurate visual diagnosis and to avoid overwhelm-ing visual stimulation. Minimize bright green in patient rooms because it causes an unflatteringly skin reflection. Soft tones combined with some color accents are ideal.






HEALTHCARE **PATIENT ROOMS**

ceiling & wall




 N9.04.86 90GG 83/O57	 G4.08.88 66YY 88/114	 F2.05.87 23YY 86/O81	 BN.03.87 18YR 83/O42	 LN.00.87 11GY 85/O16
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wall

 N8.09.81 79GG 75/125	 G3.46.83 62YY 78/618	 E1.12.76 90YR 64/166	 B1.07.76 90RR 62/124	 G0.03.86 90GG 83/O11
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 Q0.20.73 17BG 60/228	 H1.33.74 90YY 58/424	 D9.47.54 80YR 31/508	 C3.41.53 26YR 30/511	 G0.05.70 46YY 53/O62
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accent & feature wall

 Q5.44.49 37BG 26/349	 K2.30.50 57GY 28/292	 C4.75.30 16YR 13/558	 A0.41.28 55RR 11/401	 ON.00.45 28GG 22/O02
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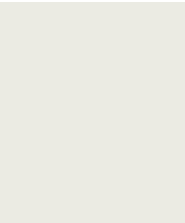
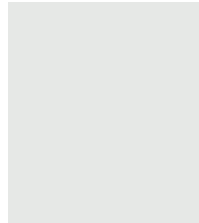
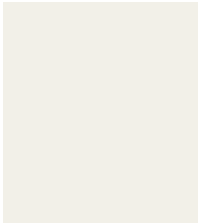
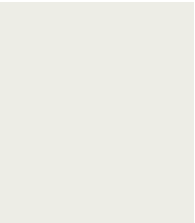
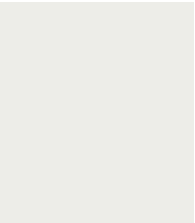


PEDIATRY

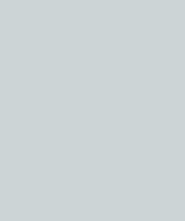
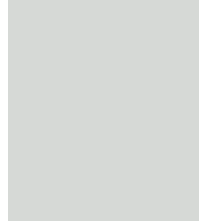
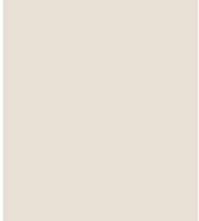
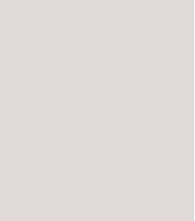
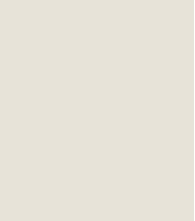
Children often are fearful of medical treatments. Pediatric units have to breath an air of familiarity and comfort for children to cope with the unfamiliarity of their situation. Such an environment and, for example, a play area, can give children the comfort & security they need to calm their nerves and to soothe their ailments. Colors can either be clear and bright or warm and varied. Avoid using bright yellow for baby units since it reduces the ability to detect signs of jaundice.


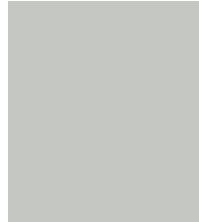
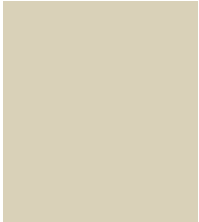
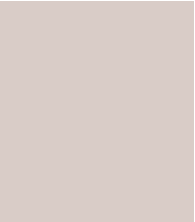

HEALTHCARE **PATIENT ROOMS**

ceiling & wall

 H0.01.86 30GY 83/O21	 MN.00.86 90GG 83/O11	 GN.01.88 83YY 88/O33	 HN.02.88 77YY 86/O32	 LN.00.87 11GY 85/O16
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wall

 SN.02.77 84BG 66/O28	 K0.03.81 70GY 72/O25	 F9.04.83 53YY 77/O64	 DN.01.82 50YR 73/O22	 G0.03.86 90GG 83/O11
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 S0.05.65 90BG 44/O49	 KN.01.74 79GY 59/O17	 G5.09.78 70YY 66/130	 C0.03.77 30YR 64/O44	 G0.05.70 46YY 53/O62
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accent & feature wall

 T4.20.39 30BB 17/15	 L0.10.60 79GY 36/106	 F3.24.57 30YY 35/249	 B7.10.59 10YR 37/143	 ON.00.45 28GG 22/O02
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INTENSIVE CARE

Intensive Care Units need utmost care & attention. Soft lighting, controlled by dimmers, creates a restful area with minimal visual clutter. While wall colors should be kept neutral and light with either a flat or matt finishing, some color accents may be used sparingly in selected areas to avoid monotony. The environment must be kept clean, safe & restful for the patient, while also supporting advanced medical equipment to function smoothly. Avoid bright white since it could create glare.

HEALTHCARE **TREATMENT ROOMS**

ceiling & wall

UN.02.86 59BB 81/O22	SN.00.86 50BG 83/O09	GN.00.88 93YY 89/O12	EN.00.87 60YR 83/O09	LN.00.87 11GY 85/O16

wall

UN.02.76 70BB 64/O35	G1.06.80 58YY 72/O95	JO.05.85 99YY 77/O80	EN.01.81 10YY 72/O21	GO.03.86 90GG 83/O11

U5.06.67 70BB 49/O82	F8.18.76 45YY 63/251	N7.04.73 74GG 60/O59	E7.03.76 10YY 64/O48	GO.05.70 46YY 53/O62

accent & feature wall

UO.23.51 50BB 27/232	F8.31.69 45YY 51/365	P8.12.61 10BG 38/119	EO.15.55 85YR 32/167	ON.00.45 28GG 22/O02



CONSULTATION ROOMS

The color choice for consultation rooms depends greatly on the purpose, function and type of treatment or therapy. Patients usually come for a short consultation or treatment. The space is often small. Hence, the use of light colors is recommended to make the room appear more spacious. Friendly, light and pale colors are generally a good choice for consultation rooms. However, apply bolder accents to uplift the mood, eliminate monotony and add some positivity for both patients and staff.

HEALTHCARE **TREATMENT ROOMS**

ceiling & wall

LO.03.86 30GG 83/O25	E8.07.83 17YY 79/105	FN.01.85 50YY 49/191	CN.00.88 50RR 83/O06	LN.00.87 11GY 85/O16

wall

LO.04.78 77GY 68/O66	FO.15.79 20YY 67/216	F7.07.86 44YY 80/106	ZN.02.80 26RR 73/O37	GO.03.86 90GG 83/O11

P8.10.66 10BG 46/112	E8.56.62 10YY 40/608	F9.35.78 50YY 65/454	Z9.06.69 50RR 51/109	GO.05.70 46YY 53/O62

accent & feature wall

T1.23,25 27BB 10/138	EO.62.53 80YR 28/650	F4.54.66 30YY 46/608	B5.51.34 00YR 15/510	ON.00.45 28GG 22/O02



ACTIVE TREATMENT ROOM

The active therapy or treatment room should stimulate the patient to recover, by doing physical exercises. More saturated colors can be applied in active treatment rooms. Stimulating color-hues like intense red, orange and yellow will encourage patients to actively participate in their treatment's process and progress. In spaces where patients are in therapy to regain the ability to walk, floors could be divided into sections of different hues, which could activate, stimulate and show their daily progress.

HEALTHCARE **TREATMENT ROOMS**

ceiling & wall

QN.02.82
72BG 75/O23

MN.00.86
90GG 83/O11

KN.02.86
90GY 83/O33

H3.04.85
94YY 83/O72

LN.00.87
11GY 85/O16

wall

Q2.04.81
30BG 72/O51

N0.03.77
50GG 63/O42

L2.04.81
90GY 73/O59

H6.05.78
16GY 66/O78

GO.03.86
90GG 83/O11

R6.06.73
70BG 56/O61

N6.08.70
68GG 53/O98

K9.09.72
79GY 57/120

H9.09.69
13GY 52/120

GO.05.70
46YY 53/O62

accent & feature wall

TO.20.40
18BB 19/153

P8.16.50
10BG 26/134

L1.11.53
90GY 29/121

H6.20.49
08GY 26/190

ON.00.45
28GG 22/O02



OPERATING ROOM

Operating theaters often are blue green, almost, every-where in the world. There is a functional reason behind this. A monochromatic color scheme, made up primarily of either green or blue, reduces visual strain caused by prolonged visual concentration on the wound. Green colors are ideal because they neutralizes the afterimage caused by blood red and minimizes glare owing to the intense light emitted from operating lamps.

HEALTHCARE **STAFF ROOM**

ceiling & wall

SN.01.85
06BB 79/O16

KN.01.85
63GY 83/O21

G3.03.84
64YY 83/O58

EN.01.81
10YY 72/O21

LN.00.87
11GY 85/O16

wall

S2.04.76
90BG 63/O43

LN.02.77
94GY 66/O38

G1.06.80
58YY 72/O95

F4.04.73
30YY 56/O60

GO.03.86
90GG 83/O11

R4.05.62
70BG 40/O50

LO.04.65
90GY 46/O56

FO.20.61
20YY 38/225

E7.10.53
10YY 30/106

GO.05.70
46YY 53/O62

accent & feature wall

TO.10.40
18BB 18/O75

J3.19.55
30GY 31/202

F2.50.50
20YY 27/426

C8.42.29
39YR 11/342

ON.00.45
28GG 22/O02



STAFF ROOM

Not only do patients need their space for resting and recovering, staff too needs their space. Especially when performing under high pressure it is important to be able to withdraw from time to time. Relaxing, restful and uplifting staff rooms keep healthcare professionals motivated to see patients through their speedy recover-ies. Contrast in color and lighting help staff differentiate between their work and rest places. Health matters for both patients and staff.

DESIGNING FOR DEMENTIA & AGED CARE

CHALLENGE

Dementia is one of the major causes of disability and dependency among older people. Worldwide, around 50 million people have dementia and every year, there are nearly 10 million new cases. The estimated proportion of the general population, aged 60 and over, with dementia is between 5-8% *11. Dementia has a physical, psychological, social, and economic impact, not only on people with dementia, but also on their carers, families and society at large. With numbers set to rise to over 152 million people with dementia by 2050, there is an increasingly urgent need to provide living spaces that provide wellbeing and comfort for dementia-patients.

COLOR SOLUTION

It is important that interior designs are created which consider and embrace all users of the facility including staff. From the ambiance to functional use, good color design can create a comfortable and safer place and make a valuable contribution to the well-being of its users. In the palette, colors have been selected and combined to enable enough color and contrast of critical surfaces, minimizing the risk of trips and falls. The contemporary color-palettes reinforce a sense of dignity, instill positive personal connections and provide stimulation within the space *12,* 13.

* Source 11: WHO, Sept 2021 <https://www.who.int/news-room/fact-sheets/detail/dementia>
* Source 12: https://www.alzheimers.org.uk/sites/default/files/migrate/downloads/making_your_home_dementia_friendly.pdf
* Source 13: Dulux Trade Dementia Friendly Colour Palette and Design Guide www.duluxtradepaintexpert.co.uk/contact

1

Color can be used to improve how a space functions; use contrasting colors on the door and adjacent walls to help residents to identify spaces they can enter. Conversely, paint a door and the surrounding wall the same color to minimize stand-out, discouraging access to restricted areas.



2

Use the Dementia Color Palette, identify the type of space, review the color and product options selected for that space. Don't forget to involve the users.



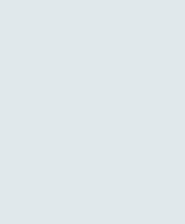
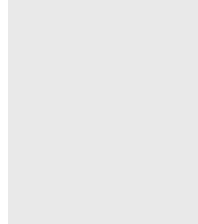
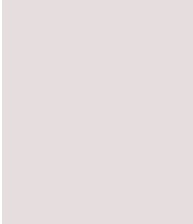
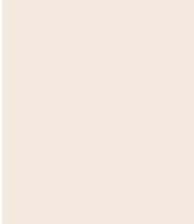
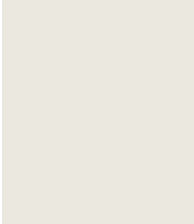
3

Very white or shiny flooring should be avoided because the reflected light can disturb or dazzle someone with dementia. Also avoid very dark flooring or mats which can look like a hole in the floor.

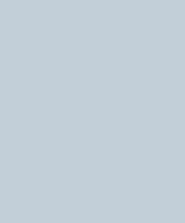
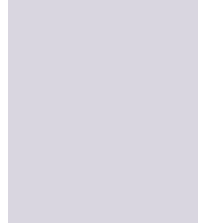
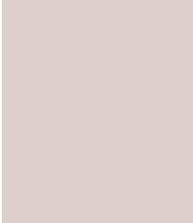
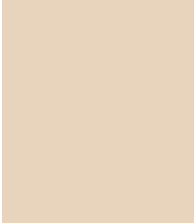
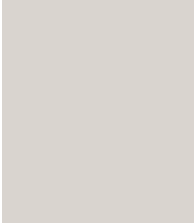






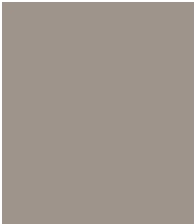
HEALTHCARE **DEMENTIA**

ceiling & wall


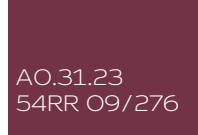
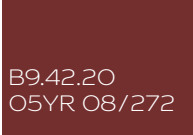
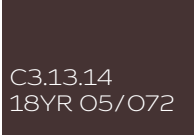
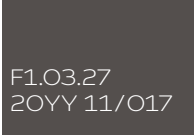
				
SN.02.85 02BB 81/030	ON.01.86 50RB 83/005	XN.01.84 74RR 76/023	F3.04.86 20YY 83/063	FN.01.86 40YY 83/021

wall

				
T5.07.77 30BB 63/084	WO.04.78 16RB 69/065	B7.03.77 19YR 67/058	FO.10.80 20YY 70/138	FN.01.79 30YY 68/024

				
UO.11.50 50BB 26/105	Z2.07.54 30RR 30/103	B8.35.45 07YR 21/415	E4.34.45 93YR 22/305	E4.05.55 02YY 32/054

accent & feature wall

				
UO.20.20 52BB 08/128	AO.31.23 54RR 09/276	B9.42.20 05YR 08/272	C3.13.14 18YR 05/072	F1.03.27 20YY 11/017



CORRIDORS

Design-for-all, “inclusive design” within any care-environment encourages the application of color and color-design that enables occupants to have greater confidence to move around independently within a space. Colors have been selected and combined to enable enough color and contrast of critical surfaces, minimizing the risk of trips and falls. Within a care home, critical surfaces (walls, floors and doors) should be defined and have contrast between them. The recommendation is a minimum of 30 points of light reflectance (LRV).






HEALTHCARE **DEMENTIA**

ceiling & wall

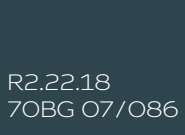

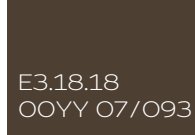
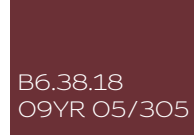

				
L1.03.86 10GG 83/018	ON.00.86 75GY 81/005	EN.02.90 14YY 88/041	CN.00.88 50RR 83/006	FN.01.86 40YY 83/021

wall

				
Q2.04.81 30BG 72/051	K6.05.81 70GY 73/074	GO.05.75 54YY 63/072	E7.05.80 08YY 72/077	FN.01.79 30YY 68/024

				
P8.16.50 10BG 26/134	H7.15.53 10GY 29/158	E4.30.50 98YR 26/291	C3.12.54 30YR 31/154	E4.05.55 02YY 32/054

accent & feature wall

				
R2.22.18 70BG 07/086	H8.21.30 14GY 12/129	E3.18.18 00YY 07/093	B6.38.18 09YR 05/305	F1.03.27 20YY 11/017

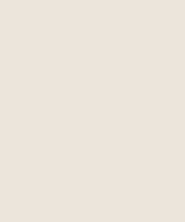
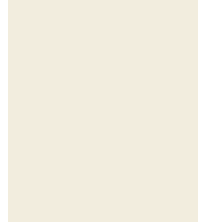
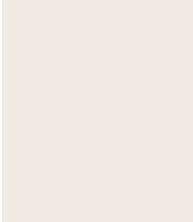
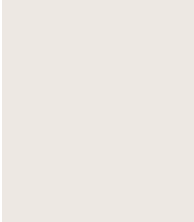
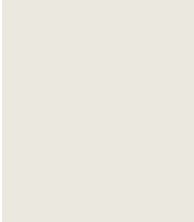


BEDROOMS


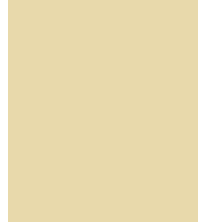
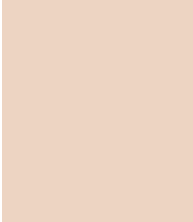
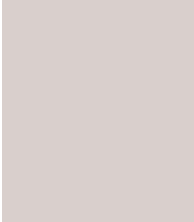
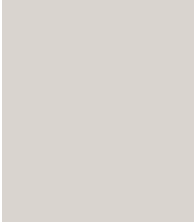
Color can be used within the design-solution as way of reinforcing positive personal connections and to provide stimulation within the space. We all enjoy being in places that are interesting and vibrant and make us feel secure. Colors reduce feelings of stress or anxiety. For bedrooms the main wall colors should be kept soft and light. Feature wall colors are often used for aesthetic purposes, however they can also help with highlighting obstacles, i.e. pillars, handrails, radiators and can also aid with way finding. It is important to apply the color and contrast guidelines to these surfaces.


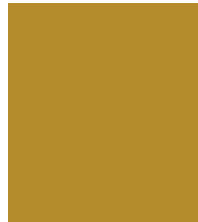


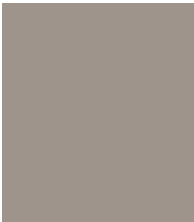
HEALTHCARE **DEMENTIA**

ceiling & wall






				
F8.03.85 43YY 81/O51	G4.04.88 57YY 86/O73	EN.02.88 11YY 85/O42	CN.00.86 10YR 83/O15	FN.01.86 40YY 83/O21

wall

				
G5.07.77 70YY 65/O90	G2.16.81 60YY 72/225	EO.10.80 86YR 70/136	BN.02.77 90RR 64/O36	FN.01.79 30YY 68/O24

				
H1.30.50 87YY 27/274	F6.55.54 34YY 31/502	D6.38.51 70YR 27/404	A4.07.48 70RR 24/O96	E4.05.55 02YY 32/O54

accent & feature wall

				
K2.16.16 50GY 06/O77	F8.37.27 45YY 11/200	D0.47.33 50YR 124O6	Y7.12.21 10RR 08/100	F1.03.27 20YY 11/O17



COMMUNAL SPACES

The communal area is the space where residents spend a large part of the day. A warm homely atmosphere where people feel comfortable and at ease is important. Try to include some materials that are soft, natural and textured, giving a comforting homely depth and softness to the space. Creating contrast to highlight critical surfaces remain the first priority, but another is to remember that furniture also needs to have contrast with the surrounding walls and floor. For example, use contrasing background or floor colors behind chairs and tables to avoid any confusion and to prevent trips and bumps occurring.



