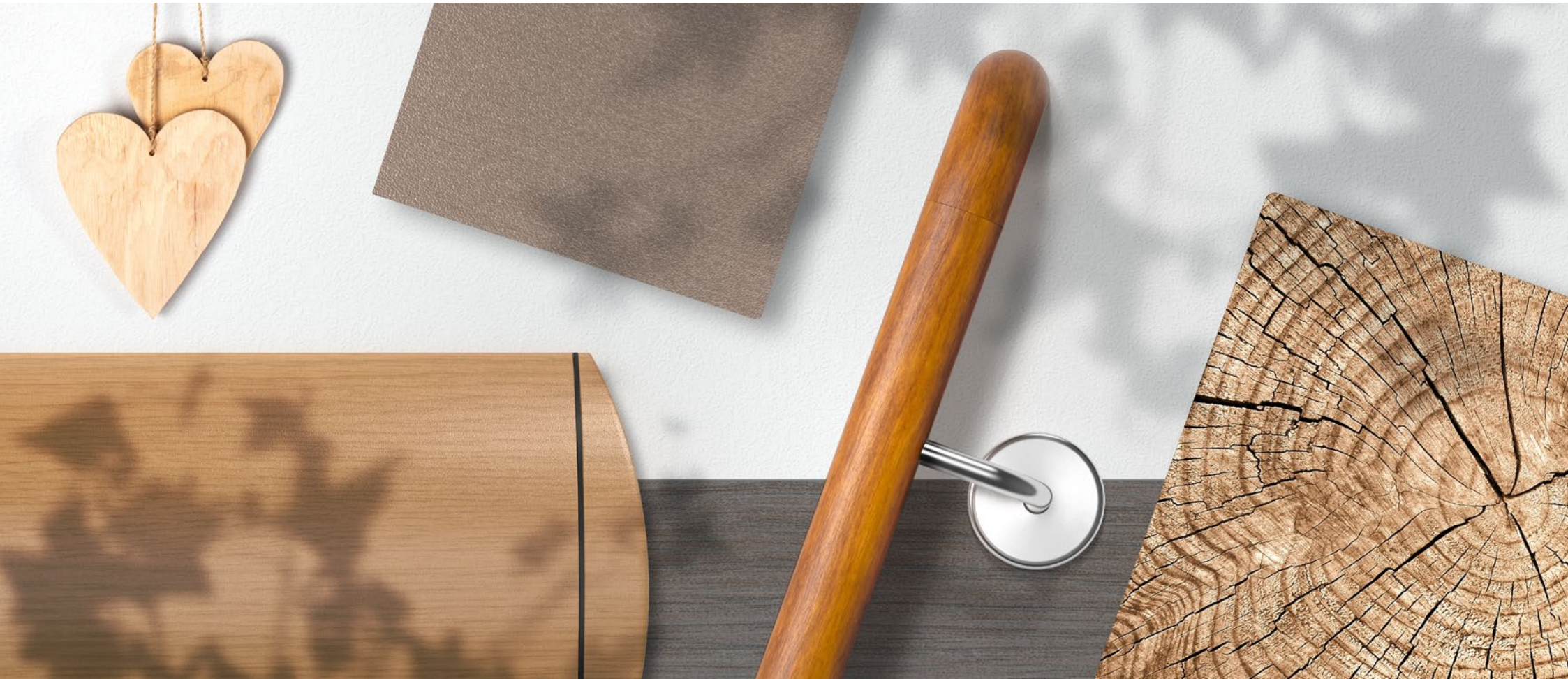


HEALING ENVIRONMENTS



Acrovyn®

Wall protection and handrails



Construction Specialties®

WHAT IS A HEALING ENVIRONMENT?

Patient-centred design is a departure from the design principles that dominated healthcare construction from the mid-20th century onwards.

At that time, efficiency of construction in terms of heating, cooling and clinical workflow called for spaces that often seemed cold and impersonal.

Over the last decade or two, however, the emphasis has shifted away from a narrowly defined set of measures of efficiency. Substantial evidence has shown the importance of patient experience on the healing process. It has been proven that the physical design of a facility can have a powerful effect on patients, helping them recover more quickly from injury or illness.

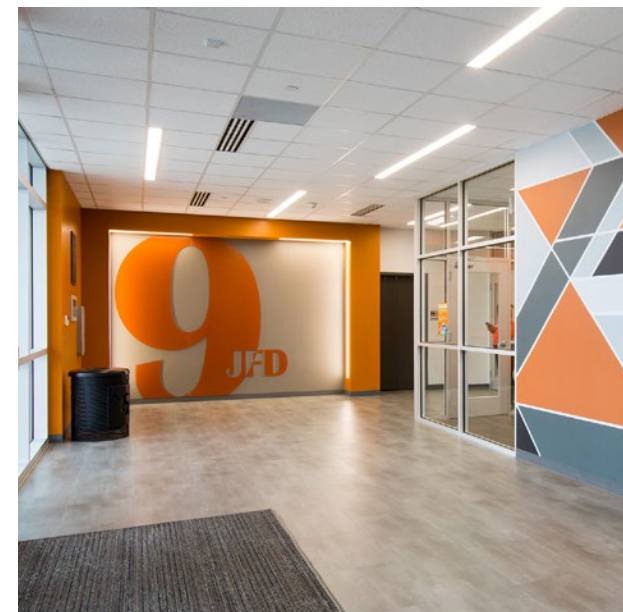
And so, the term 'healing environment' was coined, denoting an environment that has a nurturing and therapeutic effect. It marked the onset of an exciting transformation in the field of healthcare design that will significantly change the look and feel of hospitals.





*HEALTH IS A STATE OF COMPLETE
PHYSICAL, MENTAL AND SOCIAL WELL-
BEING AND NOT MERELY THE ABSENCE
OF DISEASE OR INFIRMITY*

Opening statement of the WHO Constitution



WHAT ARE THE BENEFITS?

Research has shown that healing environments go beyond the patient-centric perspective, affording benefits to the entire health framework.

The benefits of healing environments on patients are wide-ranging: more positive attitudes, greater resilience, faster recovery times, shorter hospital stays, fewer post-operative complications, and a more positive patient experience overall.

These same effects of reduced stress and anxiety that are of such benefit to patients are also just as valuable to medical staff. You can see it in the form of improved performance levels, fewer diagnostic errors, and better patient-medical staff relationships. Healing environments also encourage carers, family members and visitors to visit more frequently and for longer periods of time, which help further improve patient support and well-being.

Healthcare facilities also stand to gain from a sizeable return on investment with healing environments.

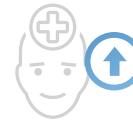
On an organisational level, this comes in the form of enhanced staff recruitment, satisfaction, productivity and retention. On the revenue side of things, profits increase because reputation and quality recognition attract more patients to the facility and through the use of in-house amenities by a growing number of visitors.



Overall cost savings



Improved patient healing



Higher staff satisfaction and productivity



Reputation and quality recognition

*HEALING ENVIRONMENTS ARE BENEFICIAL
TO ALL PARTICIPANTS IN THE HEALTH SECTOR FRAMEWORK*

PATIENTS

- + healing
- + resilience
- ♥ experience



- + trust
- + hope
- + sense of safety

STAFF

- + productivity
- + resilience
- ♥ experience



- + patient - staff relationship
- + treatment quality

- + optimism
- isolation

- + patient turnover
- ♥ client retention
- + clients attracted
- + quality recognition

CARERS/ VISITORS

- + visits
- + trust



- + usage of amenities
- + clients attracted

- + performance
- staff turnover
- + talent attraction

HEALTHCARE FACILITY

+ PERFORMANCE

+ COST SAVINGS

+ REPUTATION

THE HEALING POWER OF NATURE

Natural views appear to elicit positive feelings and may block or reduce patient stress which in a growing body of research is shown to be correlated to reduced immune system functioning.

Roger Ulrich, an architect and environmental psychologist, carried out a study in a hospital in Pennsylvania in 1984. Together with his team, Ulrich examined the records of patient recovery following gallbladder surgery in a suburban Pennsylvania hospital.

Under the same conditions, patients with a view, a leafy setting, got better one day quicker on average, needed much less pain medication and had fewer post-operative complications than those whose windows faced a brick wall.



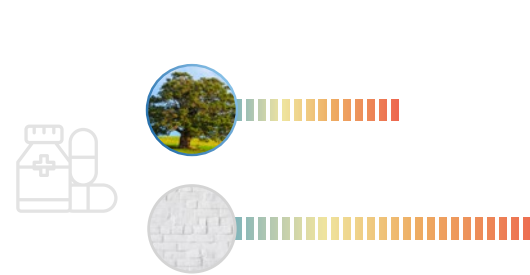
*PATIENTS WITH A VIEW LOOKING OUT ONTO
NATURE GOT BETTER QUICKER, HAD SHORTER
STAYS AND NEEDED LESS PAIN MEDICATION*

<https://www.researchgate.net/publication/17043718>





Consumption of painkillers



Recovery time



Even **photos** of landscapes can **alleviate pain**

Years later, Ulrich demonstrated in another study that photographs of landscapes also provided the same benefits. Patients who were shown images of nature were less anxious and needed fewer doses of strong painkillers.

Other Investigations of aesthetic and affective responses to outdoor visual environments found a strong tendency for American and European groups to prefer natural scenes more than urban views that lack natural elements.

SPENDING THREE TO FIVE MINUTES LOOKING AT PICTURES OF TREES, FLOWERS OR WATER CAN REDUCE FEELINGS OF ANGER, ANXIETY AND PAIN

COLOURS

AS THERAPY, AND A DISTRACTION AND ORIENTATION AID

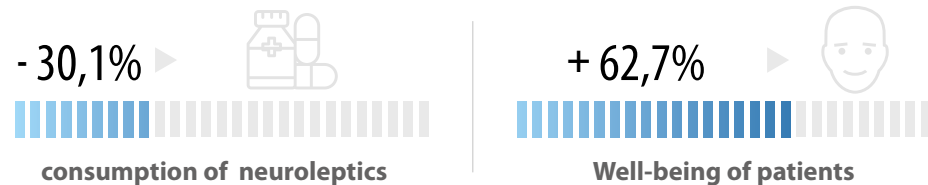
Studies have shown that colours are a physical environmental factor that can either make you tired, listless and sick or awake, active and healthy.

Colours have a real impact on people's feelings. They shape a person's perception of themselves and their environment, and can help people feel better, live healthier and rest more easily.

Colours are not only perceived visually; they are also perceived via light-sensitive skin sensors. They have a massive effect on the body's biochemical and biophysical processes by influencing the heart rate, pulse, breathing rate or blood pressure.

Well design color concepts provide a welcome change for the eye and distract patients taking their minds off stress and foster restoration from anxiety and pain.

In a study published in 2019 on 'The influence of the colour and lighting design of intensive care units on the well-being and state of health of patients', researcher Prof. Dr. Axel Buether achieved the following results, among others:





COLOURS HAVE AN INFLUENCE ON ALL VEGETATIVE FUNCTIONS SUCH AS METABOLISM, BREATHING, BLOOD PRESSURE, OR MUSCLE TONE

Colour schemes for orientation and guidance

A well-thought-out use of colour can help confused or elderly patients with a poor sense of orientation find their way around with greater ease. This is particularly useful in hospitals or care institutions that are often large and complex facilities.

Memorable, easily recognisable colour concepts for building areas serve as orientation aids and signposts and help dramatically reduce the stress associated with disorientation in patients.







ACROVYN®

WALL PROTECTION FOR HEALING ENVIRONMENTS

The Acrovyn product range is both functional and human-centric. Its purpose is to breathe life into outstanding healing healthcare environments.

Acrovyn's range of colours and finishes has been developed by colour specialists with attractive, comfortable and calming interiors in mind. It's exactly what you need to allay the stress and anxiety patients feel when spending time in a healthcare facility.

Using our Acrovyn by Design wall coverings depicting works of art, images or nature scenes, you can protect walls reliably and create welcoming interiors that are anything but clinical. They provide mental stimulation and visual inputs to lessen a patient's feelings of boredom and monotony and are a welcome distraction from their illnesses.

Acrovyn is ideal for introducing recognisable colour concepts in different building areas and colour guidance schemes that help visitors and patients effortlessly navigate their way through often complicated building structures.

From a functional standpoint, Acrovyn offers superior performance, a highly durable, hygienic finish and unrivalled wall protection. All of this for less facility maintenance.



Cradle to Cradle certified - Bronze



High impact resistance



CE mark



B-s1,d0 fire rating



RoHS compliant manufacturing

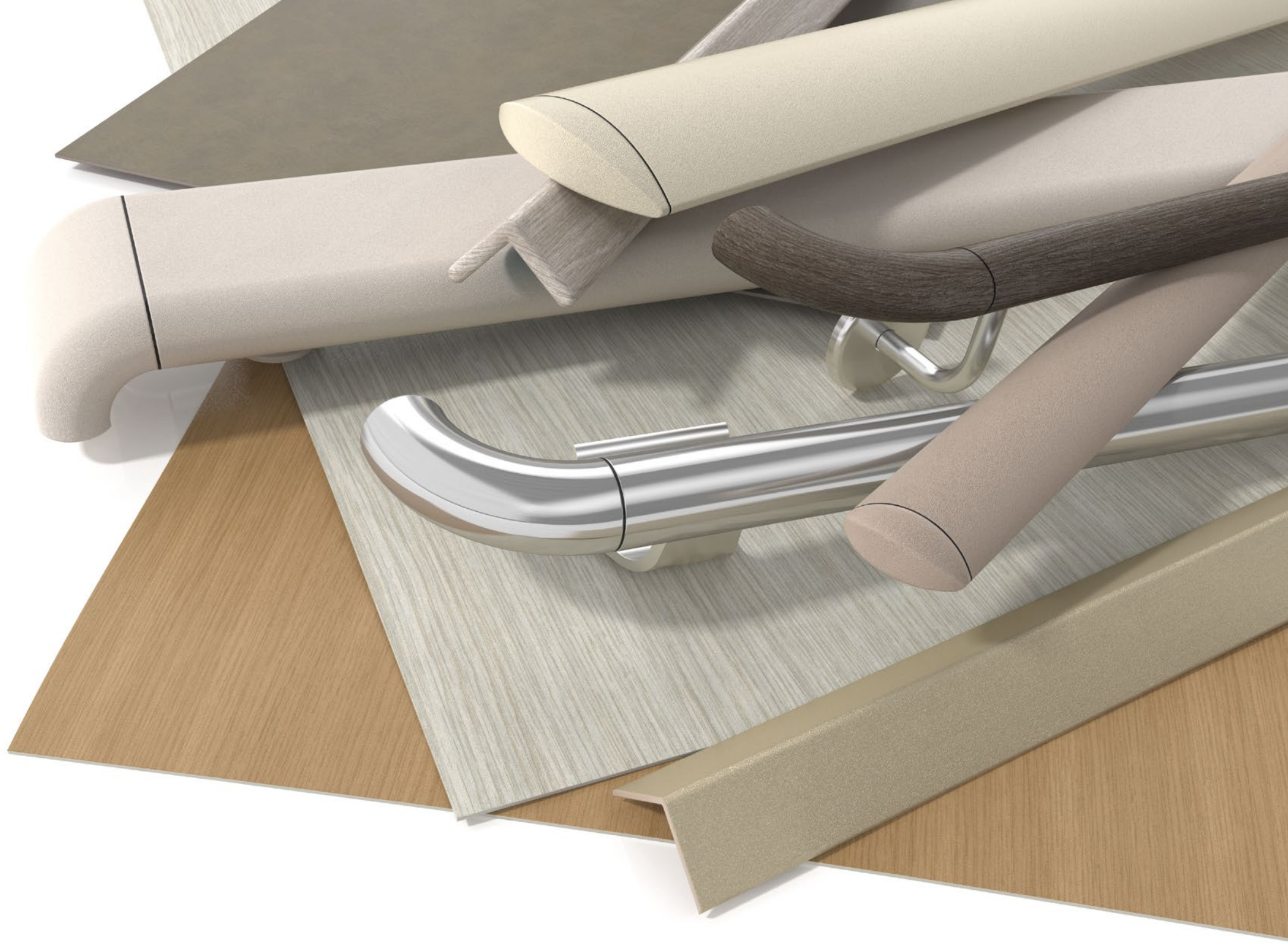


40 colours & 12 finishes



A+ Indoor Air Quality

COLOURS, TEXTURES AND FINISHES TRANSFORM BUILDING INTERIORS. THEY CAN AFFECT OUR EMOTIONS AND THE WAY WE PERCEIVE AND EXPERIENCE SPACES.



ACROVYN® COLOURS

VIVID COLOUR RANGE

Vivid colours are synonymous with energy and vitality. They are ideal for bold feature walls and bright, stimulating designs or colour guidance schemes.



5018

LAGOON

RAL / RAL Design: 5018
NCS: S 2050-B30G



5018

CORAL BLUSH

RAL / RAL Design: 020 60 30
NCS: S 2040-R



16

GOLDEN YELLOW

RAL / RAL Design: 080 80 70
NCS: S 0560-Y10R

AQUA BLUE RAL / RAL Design: 250 80 20 NCS: S 1030-R90B	11
CAPE BLUE RAL / RAL Design: 240 60 15 NCS: S 3020-R90B	325
PACIFIC BLUE RAL / RAL Design: 5012 NCS: S 1560-R90B	112
IMPERIAL PURPLE RAL / RAL Design: 290 50 15 NCS: S 5020-R60B	520
ICE BLUE RAL / RAL Design: 260 80 10 NCS: S 1015-R80B	1015
LAGOON RAL / RAL Design: 5018 NCS: S 2050-B30G	5018
BALTIC BLUE RAL / RAL Design: 230 50 20 NCS: S 4030-B10G	4030
YALE BLUE RAL / RAL Design: 5001 NCS: S 6030-R90B	129
ALMOND GREEN RAL / RAL Design: 180 80 05 NCS: S 1510-B80G	1510
ANISE RAL / RAL Design: 110 80 40 NCS: S 1040-G40Y	22

PRAIRIE GREEN RAL / RAL Design: 130 60 30 NCS: S 3040-G30Y	3040
SEQUOIA GREEN RAL / RAL Design: 200 40 10 NCS: S 6020-B50G	6020
FRENCH CREAM RAL / RAL Design: 1015 NCS: S 1010-Y20R	101
GOLDEN YELLOW RAL / RAL Design: 080 80 70 NCS: S 0560-Y10R	16
TANGERINE RAL / RAL Design: 060 70 70 NCS: S 1060-Y30R	17
SPECTRUM RED RAL / RAL Design: 3020 NCS: S 2070-Y90R	845
POWDER PINK RAL / RAL Design: 350 90 05 NCS: S 0507-R20B	510
CORAL BLUSH RAL / RAL Design: 020 60 30 NCS: S 2040-R	2040
PINK GRAPEFRUIT RAL / RAL Design: 030 60 40 NCS: S 2050-Y80R	2050
SUGAR PLUM RAL / RAL Design: 350 30 30 NCS: S 4040-R30B	32

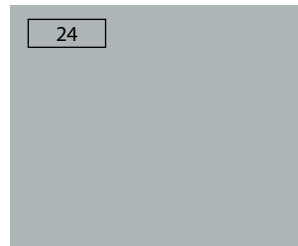
ACROVYN® COLOURS

NEUTRAL COLOUR RANGE

Soft, natural shades, neutral palettes and gentle pastels create calming, therapeutic environments. Perfect for encouraging patients to relax and let go of their anxiety and stress.



24

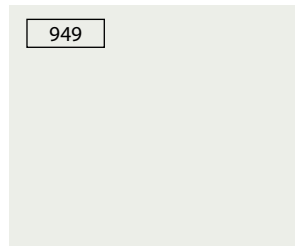


DOVE GREY

RAL / RAL Design: 200 70 05
NCS: S 2502-B

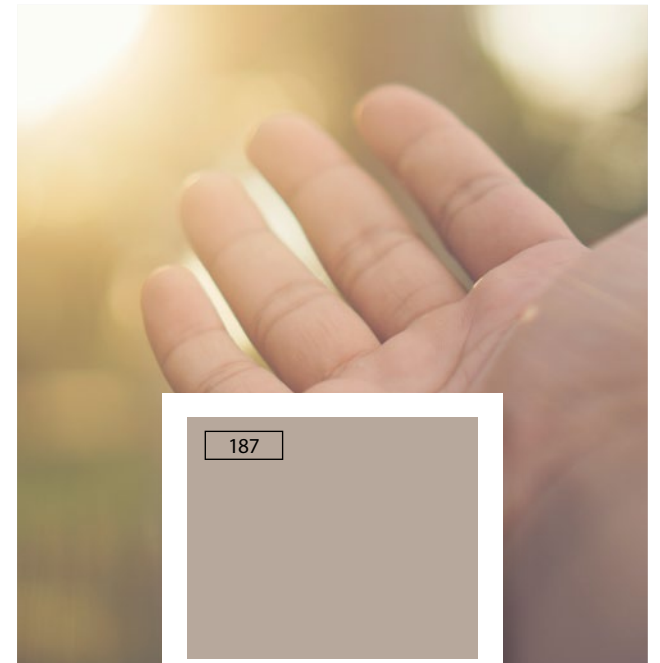


949

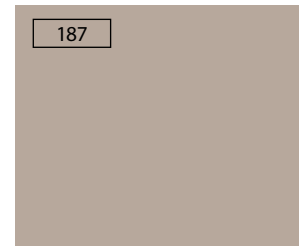


PURE WHITE

RAL / RAL Design: 9010
NCS: S 0502-6



187



TAN BARK

RAL / RAL Design: 070 70 10
NCS: S 3005-Y50R

SNOW WHITE RAL / RAL Design: 9003 NCS: S 0500-N	9003
PURE WHITE RAL / RAL Design: 9010 NCS: S 0502-6	9010
WHITE RAL / RAL Design: 9003 NCS: S 1002-Y50R	949
MISSION WHITE RAL / RAL Design: 9001 NCS: S 1002-Y50R	933
EGGSHELL RAL / RAL Design: 1013 NCS: S 1005-Y10R	100
GREY CLOUD RAL / RAL Design: 080 60 05 NCS: S 1502-Y50R	801
TAN BARK RAL / RAL Design: 070 70 10 NCS: S 3005-Y50R	187
TAUPE RAL / RAL Design: 060 50 05 NCS: S 8005-Y80R	26
EARTH RAL / RAL Design: 8019 NCS: S 8005-Y80R	8019

FELT RAL / RAL Design: 7044 NCS: S 2502-Y	7044
PEARL GREY RAL / RAL Design: 7004 NCS: S 2502-Y	136
CHARCOAL RAL / RAL Design: 7037 NCS: S 5500-N	162
ANTHRACITE RAL / RAL Design: 7043 NCS: S 7000-N	7043
MISTY GREY RAL / RAL Design: 280 90 05 NCS: S 0505-R80B	260
DOVE GREY RAL / RAL Design: 200 70 05 NCS: S 2502-B	24
GRAPHITE RAL / RAL Design: 7024 NCS: S 7502-B	7024
BLACK RAL / RAL Design: 7021 NCS: S 8000-N	108

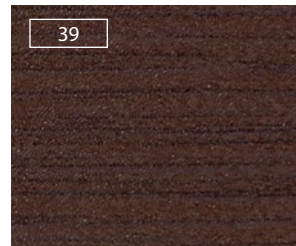
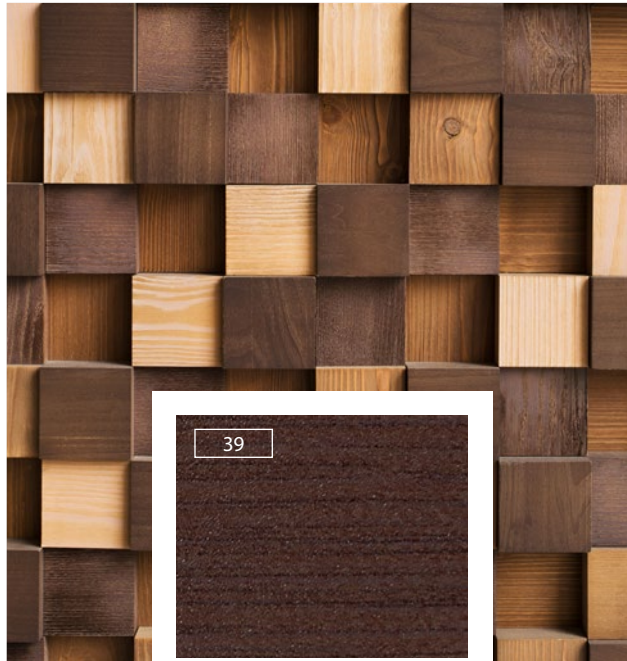
ACROVYN® FINISHES

DECORATIVE FINISHES

Beautiful woodgrain, stone and metal finishes paired with natural shades or depictions of nature create soothing atmospheres. Patients will feel comfortable and right at home in no time



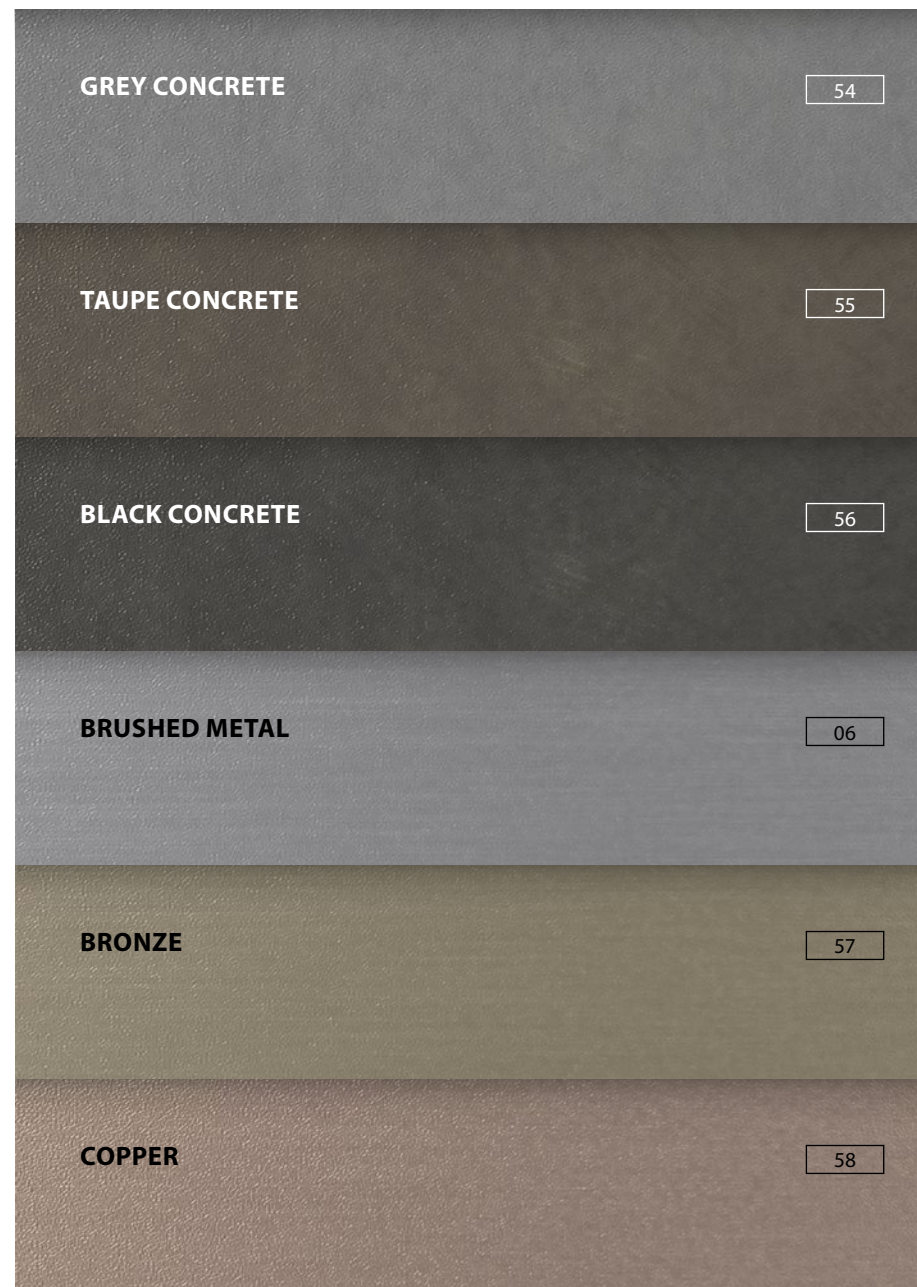
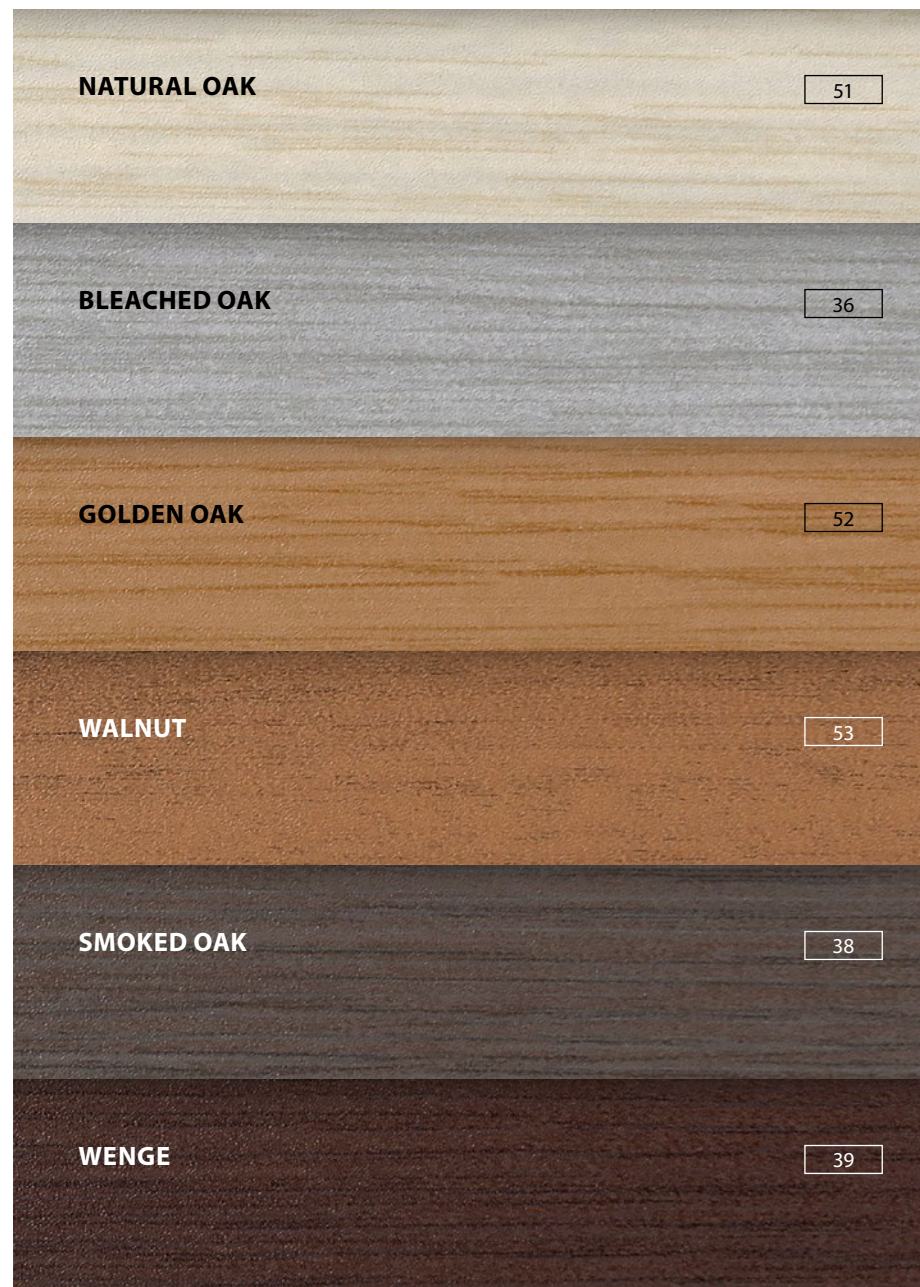
GOLDEN OAK



WENGÉ



GREY CONCRETE



THERAPEUTIC COLOUR COMBINATIONS

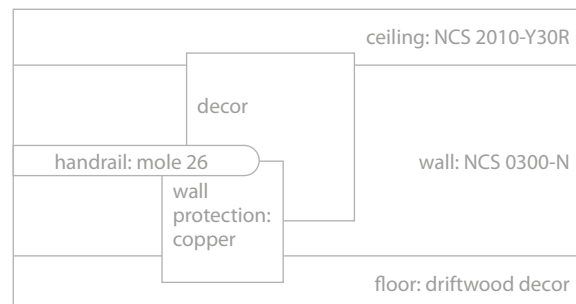
RETURN TO NATURE

UNIQUE
AUTHENTIC
SENSIBLE
PERFECT/IMPERFECT
WABI-SABI

STRONG CONTRAST - FORCE 2

Stark, sharp contrasts between wall and handrail.

- Nursing care homes
- Visual impairments
- Mental illnesses in the elderly
- Senile dementia, etc



THERAPEUTIC COLOUR COMBINATIONS

FOLIAGE

FRESCO

SHADE

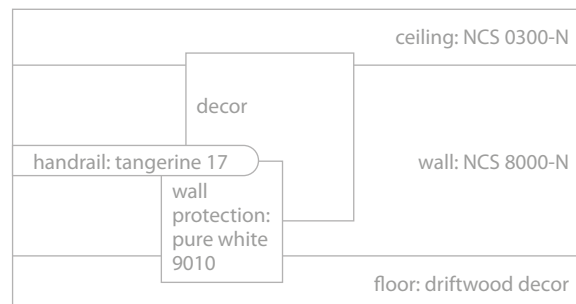
WORLD OF PLANTS

GREENERY

STRONG CONTRAST - FORCE 2

Stark, sharp contrasts between wall and handrail.

- Nursing care homes
- Visual impairments
- Mental illnesses in the elderly
- Senile dementia, etc



THERAPEUTIC COLOUR COMBINATIONS

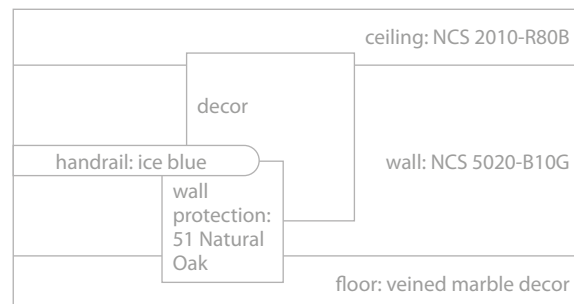
NATURE

TREE
LANDSCAPE
SEASON
DREAM
BREAK
PROTECTION

STRONG CONTRAST - FORCE 2

Stark, sharp contrasts between wall and handrail.

- Nursing care homes
- Visual impairments
- Mental illnesses in the elderly
- Senile dementia, etc



THERAPEUTIC COLOUR COMBINATIONS

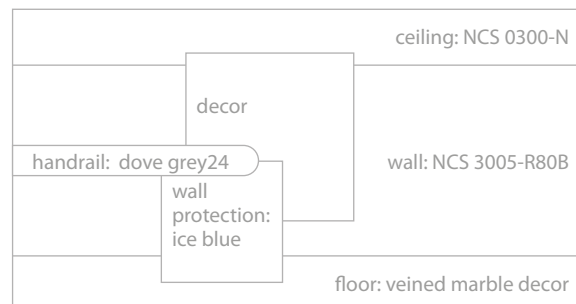
EMPATHY

SOCIAL LINK
FAMILY
FEELING
BROTHERHOOD
LOVE

NO CONTRAST - FORCE 0

No contrast between wall and handrail.

- Reminiscent of the hospitality sector (e.g. contemporary prestigious hotels)





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