



Kährs®

UPOFLOOR

ZERO SHEET | ZERO SOUND

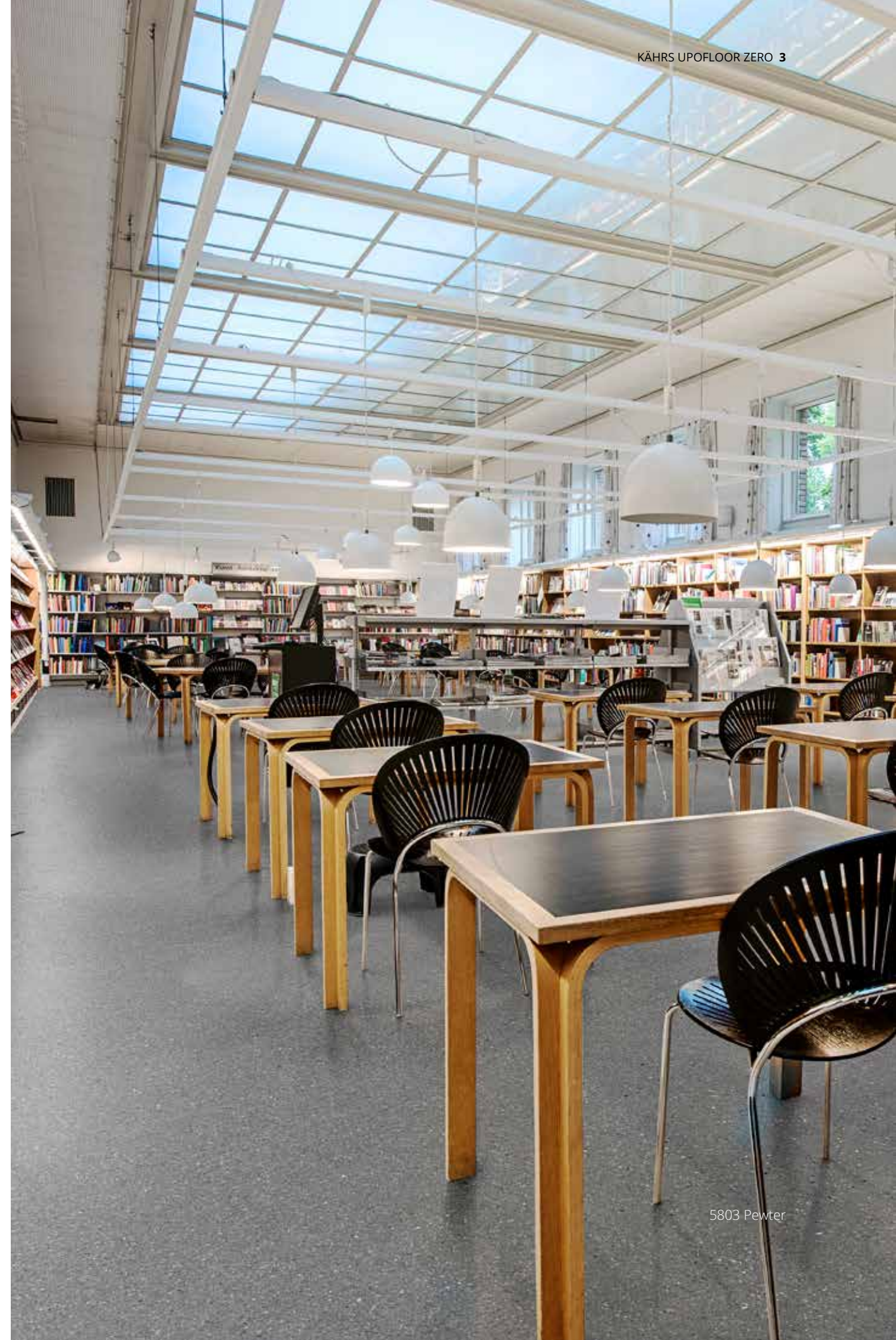
PVC FREE CONTRACT SHEET FLOORINGS

KÄHRS UPOFLOOR **ZERO**

PVC AND PLASTICIZER-FREE ENOMER® FLOORING

Zero PVC, Zero Plasticizers – and Zero worries. The Upofloor Zero product family flooring materials are environmentally and user friendly, making them well suited for public spaces, including those with especially high safety requirements – such as schools, day care centres, hospitals and healthcare facilities.

Upofloor Zero is made from our innovative flooring material Enomer®. Featuring a mineral based construction, thermoplastic polymers and ionomer reinforced surface treatment, the products are easy to maintain and extremely resistant to both staining and scratching.



PVC-FREE RESILIENT FLOORING FOR SAFE AND HEALTHY ENVIRONMENT



SUSTAINABLE GREEN FLOORING CHOICE

Upofloor Zero floorings are sustainable choices. They are made from safe raw materials consisting of natural minerals and clean thermoplastic polymers. The environment has been considered in every stage of the development and production process.



DESIGN AND COLOR

The outstanding quality and extensive range of colors, along with subdued patterns and unlimited combination possibilities, makes Zero flooring materials inspirational and easy to use in any interior design.



APPLICATION AREAS

Due to its Enomer®-properties (see page 6), Upofloor Zero flooring is suitable for all public spaces such as hospitals, schools, shops, offices, daycare centers, nursing homes and all public premises. It is perfect for areas subject to heavy wear-and-tear and with specific needs regarding cleanliness and easy maintenance.



RESPONSIBLE DESIGN

The life-cycle costs of Zero flooring materials – including initial costs, installation costs, operational costs and maintenance costs – are low due to the properties of Enomer®. It is also a sustainable choice, as production waste is recycled into new floor coverings. Installation and demolition waste are recyclable. They can also be included in energy recovery processes.

ENOMER®

Enomer® is a unique and innovative flooring material developed by Kährs Upofloor. Made from natural minerals and pure polymers, the material provides excellent performance characteristics, without compromising care for the environment or human beings.

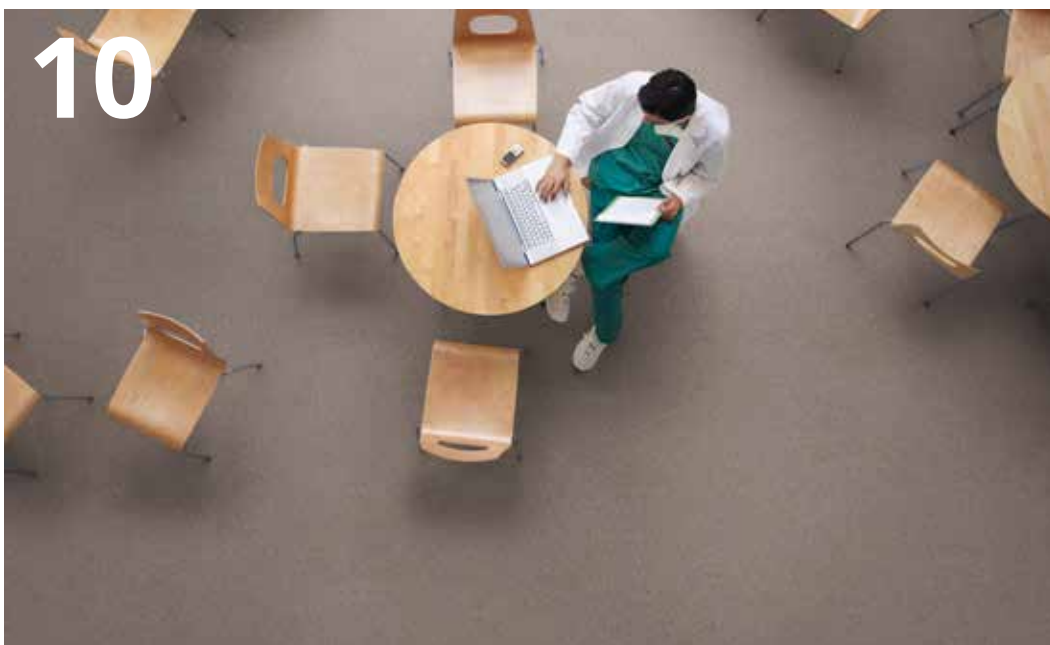
CLEAN INDOOR AIR AND SAFE CHOICE

Enomer® is free from pvc, plasticizers, phthalates, halogens, chlorines and heavy metals. With its clean composition, Enomer® promotes clean and healthy indoor air.

Due to the mineral-based Enomer® material, floors do not support combustion in fire situations and do not generate dangerous combustion gases, such as hydrogen chloride or hydrogen cyanide. Thanks to their slight embossing, they provide good slip-resistance. This flooring material does not act as a substrate for bacterial growth.

- Unbeatable performance characteristics
- Extremely durable - low life cycle costs
- Safe to walk on, good slip-resistance
- Low maintenance costs, does not require polishing or dry buffing
- Good resistance to scratching and dirt
- Easy to install
- Environmentally friendly
- Superior resistance to staining
- The dense surface and oil-free structure of Enomer® flooring means no dirt can penetrate it
- Does not react with rubber
- No PVC or plasticizers
- No chlorine, phthalates, halogens or heavy metals
- Excellent chemical resistance
- Antistatic
- Bacteria does not grow on Enomer®, making it very easy to keep the floor clean

KÄHRS UPOFLOOR ZERO RANGES



KÄHRS UPOFLOOR ZERO SHEET

Zero Sheet comes in a wide variety of colors – which means zero limitations for your creativity and endless opportunities to mix and match. Meanwhile, the design with a soft contrast chip design gives the floor a rich, yet beautifully uniform appearance.

- Environmentally friendly
- Clean indoor air
- Made in Finland
- Choice of more than 50 colors



KÄHRS UPOFLOOR ZERO SOUND

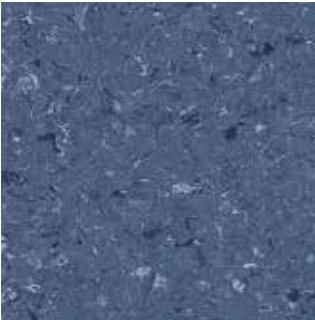
Zero Sound is like Zero in terms of use, maintenance and pattern. With additional acoustic and ergonomic qualities. A sense of warmth, for added comfort. Excellent choice for sheltered housing, day care centers, schools, libraries and stairwells.

- Superior properties of Zero
- Acoustic – reduced impact sound
- Ergonomic – improved comfort
- Made in Finland
- Makes a perfect combination with Zero
- Choice of 16 colors

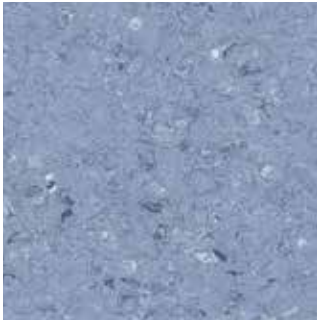
5763 Spruce, 5758 Blue Orchid, 5743 Terracotta, 5732 Carotene

KÄHRS UPOFLOOR
ZERO SHEET

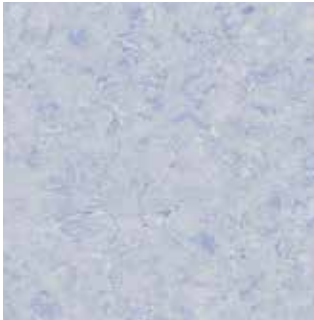
KÄHRS UPOFLOOR
ZERO SHEET



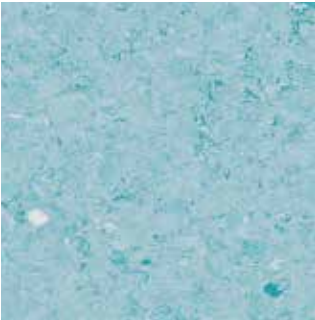
5752 Blue Moon
NCS S 5020-R80B LRV 15.9



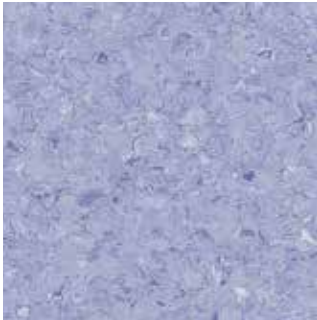
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NCS S 4020-R90B LRV 22.4



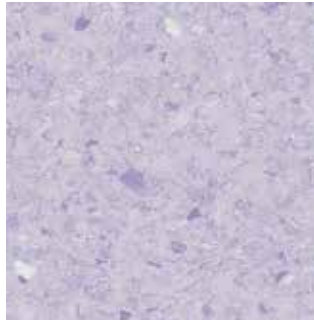
5751 Blue Mist
NCS S 1510-R80B LRV 59.6



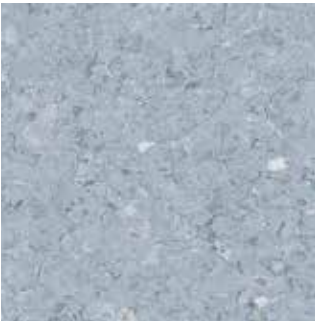
5753 Aquamarine
NCS S 1020-B10G LRV 52.7



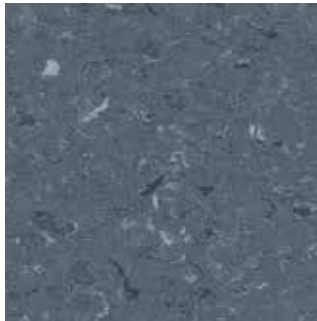
5757 Lavender
NCS S 2020-R70B LRV 43.7



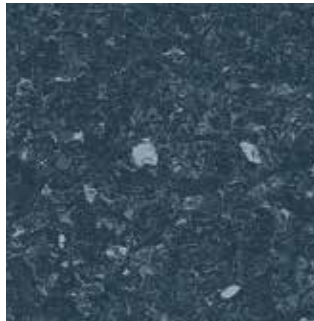
5756 Lilac
NCS S 1515-R60B LRV 55.4



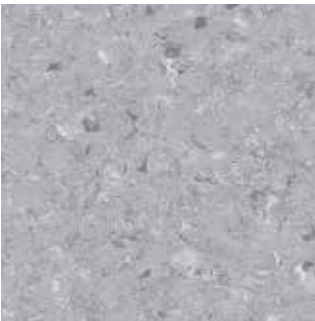
5754 Serenity
NCS S 2010-R90B LRV 46.4



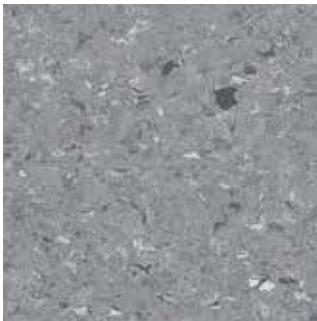
5759 Denim
NCS S 6020-B LRV 14.3



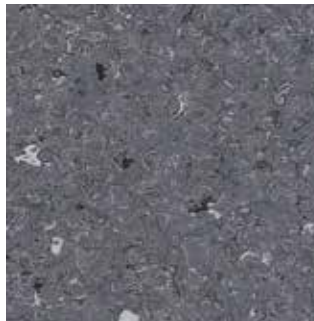
5755 Ozone
NCS S 7010-B10G LRV 11.0



5714 Ice Grey
NCS S 2502-B LRV 45.6



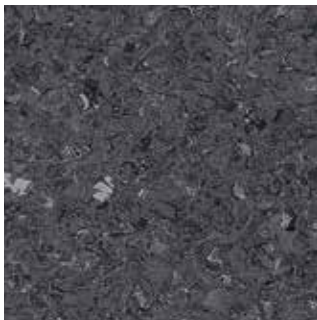
5715 Meteorite
NCS S 3502-B LRV 33.0



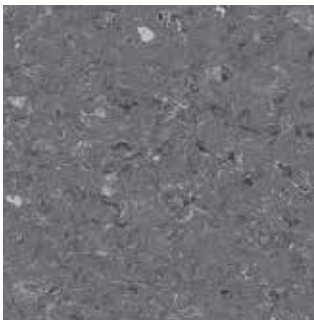
5716 Stormy
NCS S 6502-B LRV 16.9



5706 Midnight
NCS S 8502-B LRV 6.3



5705 Graphite
NCS S 7500-N LRV 10.2



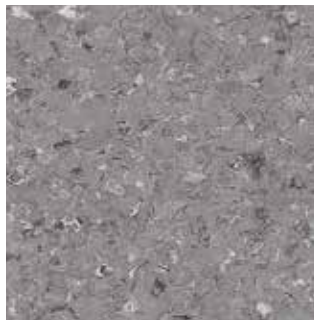
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NCS S 6000-N LRV 20.4



5701 Pearl
NCS S 1500-N LRV 60.7



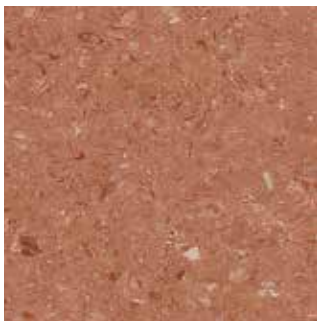
5702 Cape Cod
NCS S 2500-N LRV 49.8



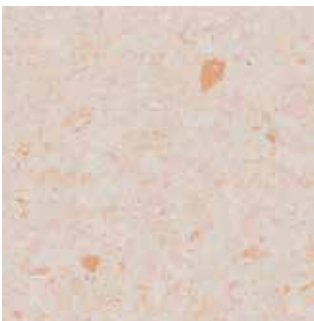
5703 Pewter
NCS S 4500-N LRV 28.8



5746 Rust
NCS S 4050-Y70R LRV 14.6



5773 Mesa
NCS S 3030-Y60R LRV 25.4



5772 Mojave Sand
NCS S 1005-Y50R LRV 62.7

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5775 Mystic
NCS S 7005-R80B LRV 12.5



5774 Asphalt
NCS S 7502-R LRV 10.7



5745 Mars
NCS S 5030-R20B LRV 8.7



5742 Mexicali Rose
NCS S 3020-R LRV 30.1



5713 Granite
NCS S 4502-Y LRV 25.3



5712 Concrete
NCS S 3502-Y LRV 36.0



5711 Silver Grey
NCS S 3000-N LRV 46.1



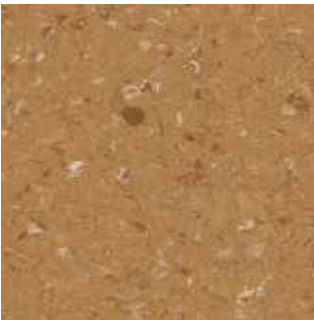
5723 Morocco
NCS S 4010-Y30R LRV 35.1



5722 Dusty
NCS S 2005-Y30R LRV 48.3



5721 Moon Rock
NCS S 1505-Y30R LRV 63.6



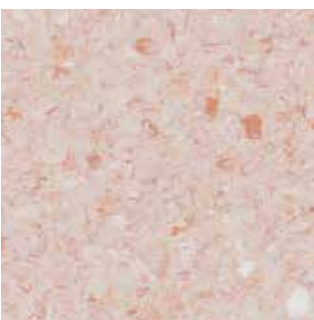
5776 Curry
NCS S 3040-Y30R LRV 28.2



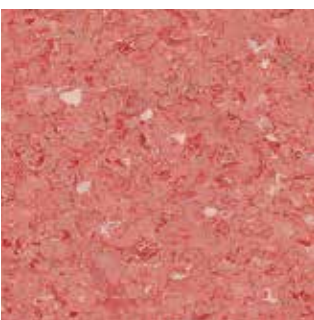
5724 Corundum
NCS S 6005-Y50R LRV 17.6



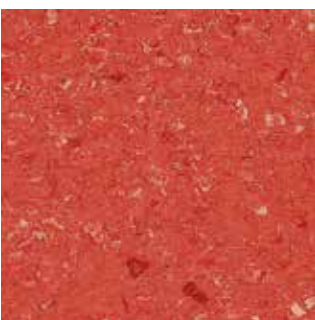
5729 Sunbeam
NCS S 2030-Y20R LRV 46.2



5741 Rose Beige
NCS S 1510-Y70R LRV 59.3



5731 Berry
NCS S 2040-Y80R LRV 29.3



5743 Terracotta
NCS S 2060-Y80R LRV 21.0



5726 Canary
NCS S 1040-G90Y LRV 65.3



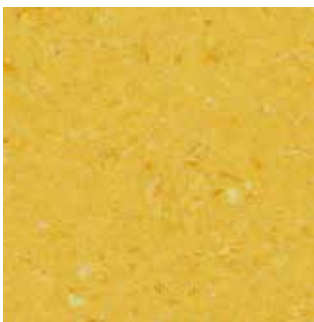
5725 Shell
NCS S 1515-Y10R LRV 61.1



5732 Carotene
NCS S 2060-Y40R LRV 30.4



5744 Allure
NCS S 2060-R LRV 17.5

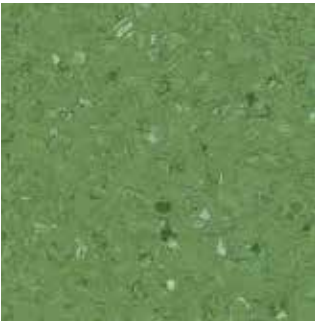


5728 Mayan Maize
NCS S 1060-Y LRV 50.8

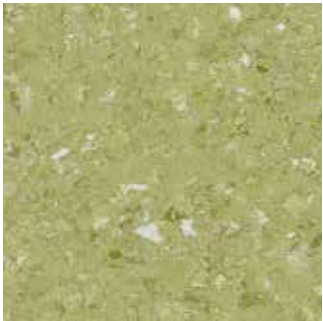


5727 Hummus
NCS S 1030-Y LRV 61.0

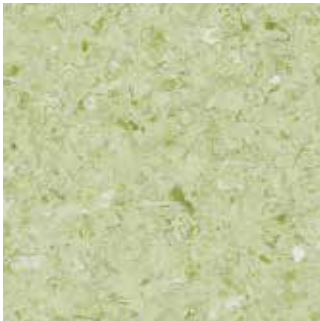
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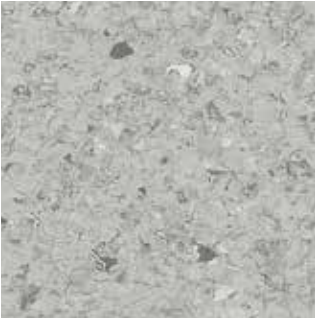
5763 Spruce
NCS S 3040-G30Y LRV 26.7



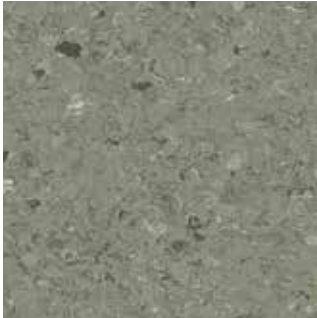
5762 Thorn Apple
NCS S 2030-G60Y LRV 42.7



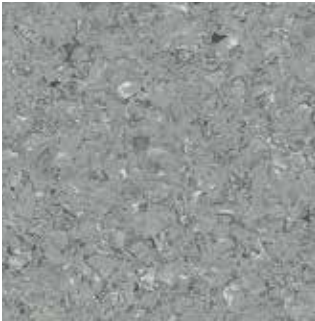
5761 Apple Mint
NCS S 1020-G50Y LRV 57.1



5764 Ambrosia
NCS S 2005-G30Y LRV 49.7



5768 Pine
NCS S 5010-G30Y LRV 23.1



5765 Sea Foam
NCS S 4005-G20Y LRV 32.8



5766 Jade
NCS S 6005-B80G LRV 18.6



5767 Verde
NCS S 7005-B80G LRV 11.3



5863 Spruce



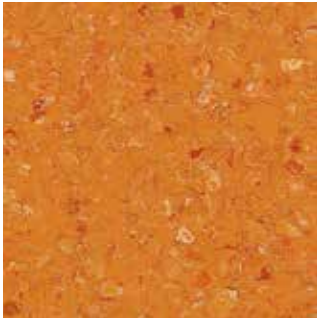
KÄHRS UPOFLOOR
ZERO SOUND

5832 Carotene, 5805 Graphite

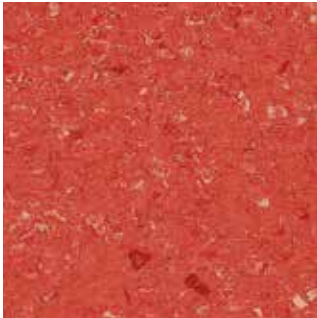
KÄHRS UPOFLOOR
ZERO SOUND



5829 Sunbeam
NCS S 2030-Y20R LRV 46.2



5832 Carotene
NCS S 2060-Y40R LRV 30.4



5843 Terracotta
NCS S 2060-Y80R LRV 21.0



5823 Morocco
NCS S 4010-Y30R LRV 35.1



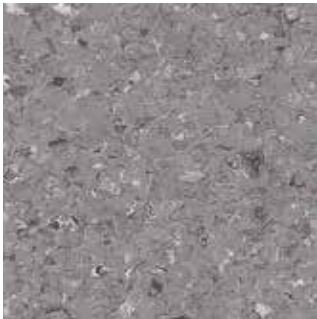
5824 Corundum
NCS S 6005-Y50R LRV 17.6



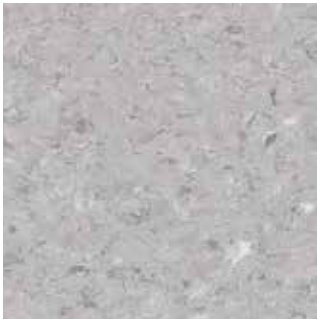
5822 Dusty
NCS S 2005-Y30R LRV 48.3



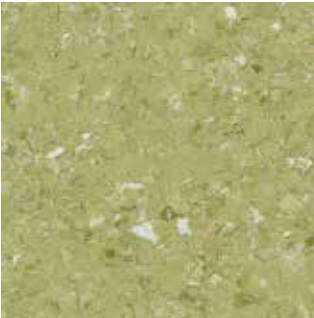
5805 Graphite
NCS S 7500-N LRV 10.2



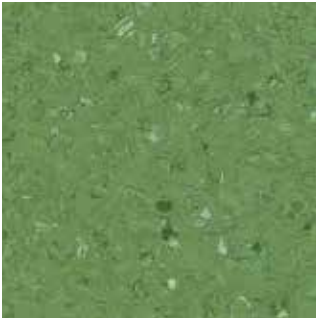
5803 Pewter
NCS S 4500-N LRV 28.8



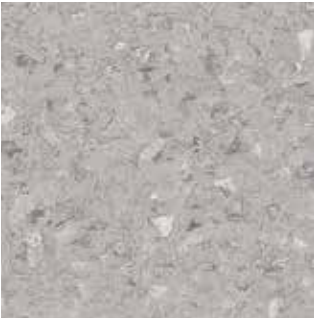
5802 Cape Cod
NCS S 2500-N LRV 49.8



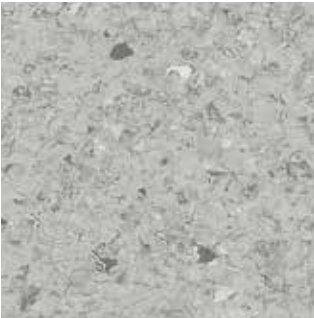
5862 Thorn Apple
NCS S 2030-G60Y LRV 42.7



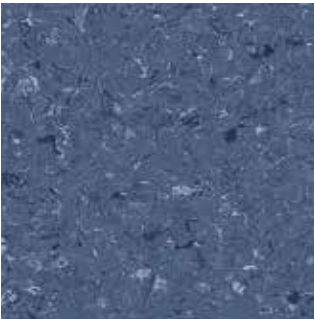
5863 Spruce
NCS S 3040-G30Y LRV 26.7



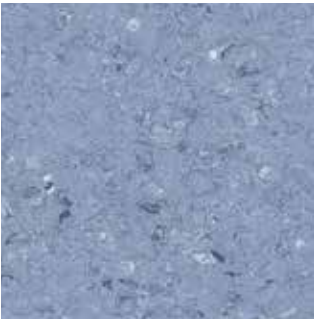
5811 Silver Grey
NCS S 3000-N LRV 46.1



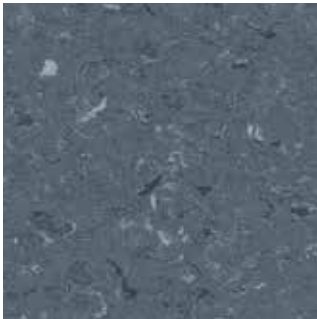
5864 Ambrosia
NCS S 2005-G30Y LRV 49.7



5852 Blue Moon
NCS S 5020-R80B LRV 15.9



5858 Blue Orchid
NCS S 4020-R90B LRV 22.4



5859 Denim
NCS S 6020-B LRV 14.3

PRODUCT DATA SHEET **ZERO SHEET**

PRODUCT			
Zero Sheet	EN 14565	PVC- and plasticizer-free Enomer® flooring	
Application	EN ISO 10874	23/34/43	
SPECIFICATION			
Thickness	 EN ISO 24346	2.0 mm	
Weight	 EN ISO 23997	3100 g/m²	
Roll length	 EN ISO 24341	10 - 25 m	
Width	 EN ISO 24341	145 cm	
PRODUCT PROPERTIES			
PROPERTY	TEST METHOD	RESULT	
Indoor air certifications		M1, Floorscore, Austrian Ecolabel	
Fire resistance	 EN 13501-1	C _f -s1	
Residual indentation	 EN ISO 24343-1 (2.5 h)	ca. 0.03 mm	
Slip resistance	 EN 13893 DIN 51130	DS (> 0.3) R9	
Electrical propensity	 EN 1815	< 2 kV (antistatic)	
Wear and scratch resistance	 EN 660-2 ISO 5470-1	< 2.0 mm³ (Class T) 0.05 g/1000 cycles	
Effect of castor chair	 EN 425	Suitable	
Dimensional stability	 EN ISO 23999 (50 °C/6 h)	< 0.2 %	
Colour fastness	 EN ISO 105-B02	≥ 6	
Flexibility	 EN ISO 24344 Method A	10 mm	
Chemical Resistance	 EN ISO 26987	Excellent	
Underfloor heating		Suitable (max. +28 °C)	
Insulation resistance	 EN 1081	> 100 GΩ	
Watertightness	 EN 13553 Annex A	Pass	
Thermal conductivity	 EN 12667	0.22 W/mK	
Tensile strength of seam	EN 684	> 400 N / 50 mm	
Bacterial growth		Surface does not act as a substrate for bacterial growth	



PRODUCT DATA SHEET **ZERO SOUND**

PRODUCT			
Zero Sound	EN 14565	PVC- and plasticizer free Enomer® flooring with additional acoustic qualities	
Application	EN ISO 10874	23/33/42	
SPECIFICATION			
Thickness	 EN ISO 24346	3.6 mm	
Weight	 EN ISO 23997	3800 g/m²	
Roll length	 EN ISO 24341	8 - 16 m	
Width	 EN ISO 24341	145 cm	
PRODUCT PROPERTIES			
PROPERTY	TEST METHOD	RESULT	
Indoor air certifications		M1, Floorscore	
Fire resistance	 EN 13501-1	C _f -s1	
Residual indentation	 EN ISO 24343-1 (2.5 h)	approx. 0.13 mm	
Slip resistance	 EN 13893 DIN 51130	DS (> 0.3) R9	
Electrical propensity	 EN 1815	< 2 kV (antistatic)	
Chemical Resistance	 EN ISO 26987	Excellent	
Underfloor heating		Suitable (max. +28 °C)	
Insulation resistance	 EN 1081	> 100 GΩ	
Thermal resistance	 EN 12667	R = 0.030 [m²K/W]	
Impact sound insulation	 ISO 717 / 2	ΔL _w 15 dB	
Bacterial growth		Surface does not act as a substrate for bacterial growth	

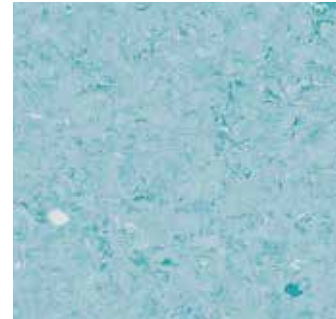


LRV VALUES

To show compliance and understanding of various building regulations within hospitals, schools and the commercial environment, one can use LRVs. It represents a relative light and dark value rather than an actual color.

LRV measures the percentage of light a color reflects, forming a universal value for contrast expressed on a scale of 1 - 100, with 1 equaling absolute black and 100 equaling absolute white. That is, a color's Light Reflectance Value (LRV) measures the amount of visible and usable light that reflects from (or absorbs into) a surface. The higher the value obtained, the greater the amount of light that is being reflected.

The typical optimal choice for everyday design considerations are LRVs between 9 and 75. The European Equality Act 2010 requires a 30 point difference between floors and walls to assist in the safety of people with disabilities.



5753 Aquamarine
NCS S 1020-B10G LRV 52.7

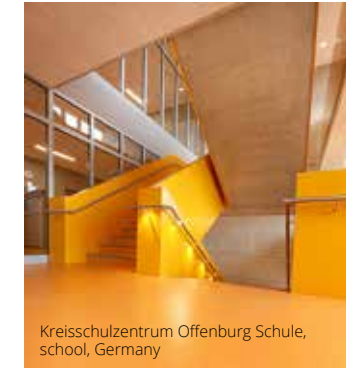


5805 Graphite
NCS S 7500-N LRV 10.2

REFERENCES



Evangelischer Kindergarten KIWW, day care center,
Germany



Kreisschulzentrum Offenburg Schule,
school, Germany



Kreisschulzentrum Offenburg
Schule, school, Germany



Queen Silvia's Hospital for Children and Young People, Sweden



Kreisschulzentrum Offenburg Schule, school, Germany



Queen Silvia's Hospital for Children and Young People, Sweden



Queen Silvia's Hospital for Children and Young People, Sweden



Elshult's and Krusets's preschool,
Sweden



FLOORS BEYOND EXPECTATIONS

www.kahrsflooring.com