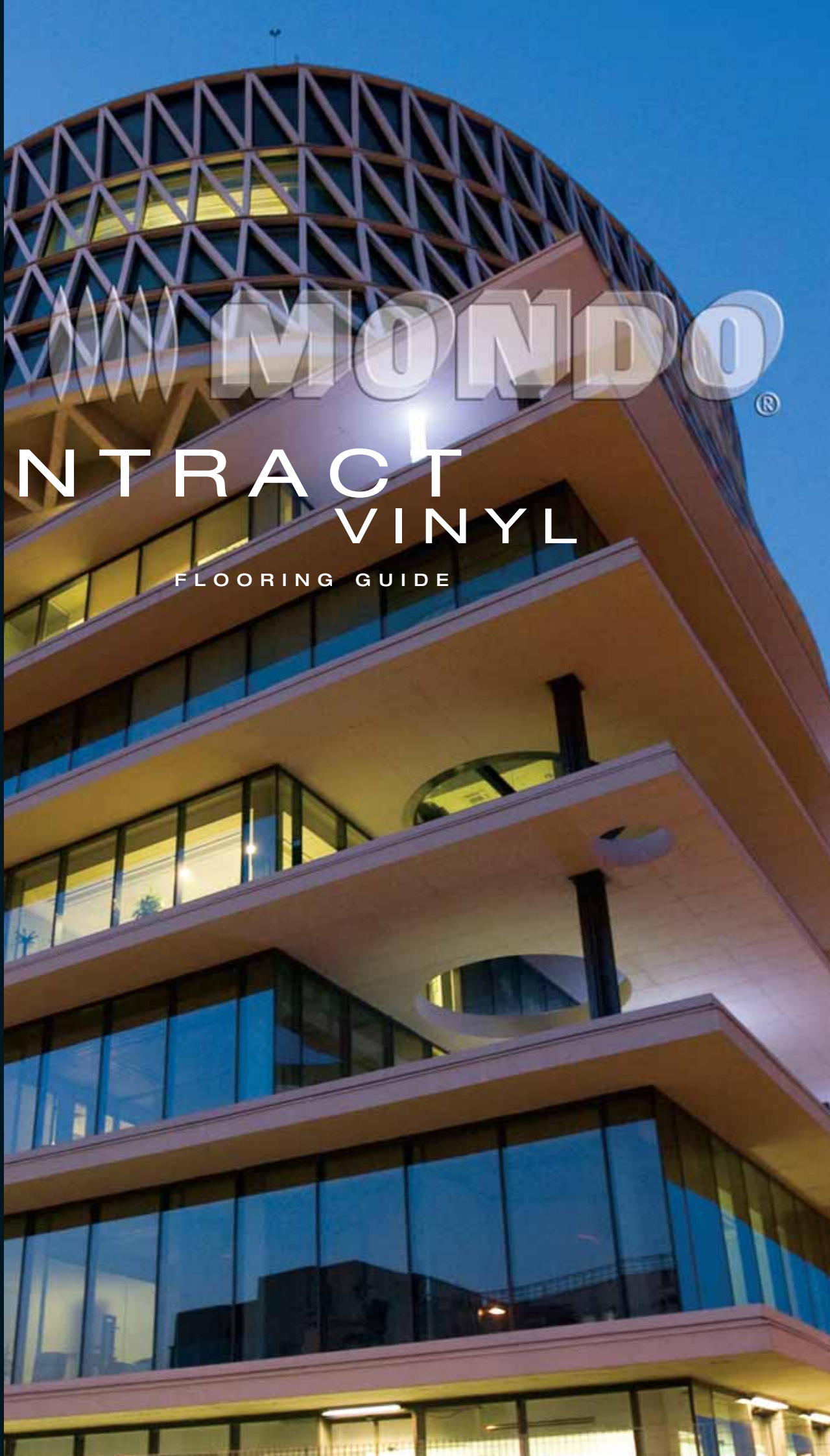
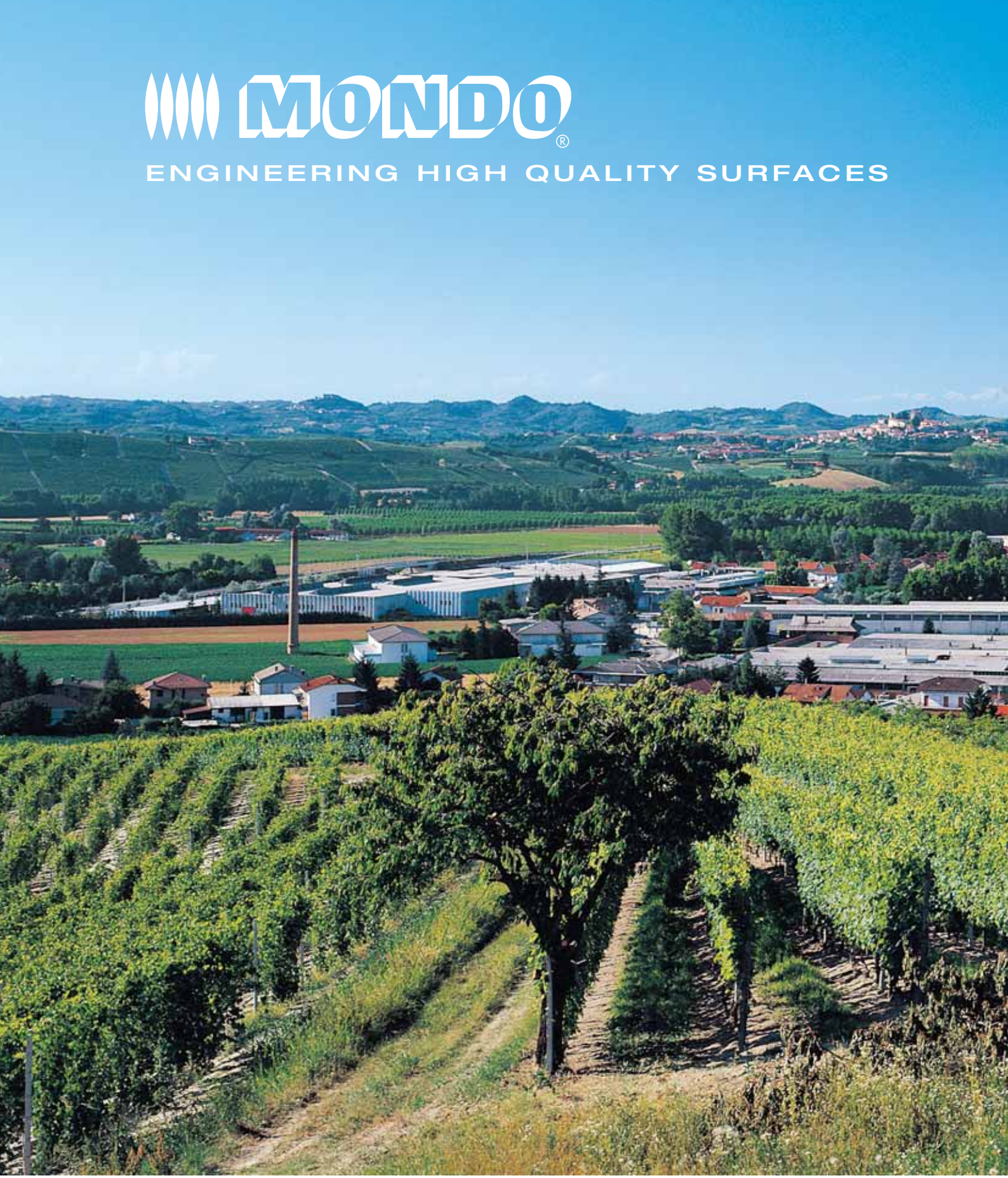


CONTRACT VINYL

FLOORING GUIDE

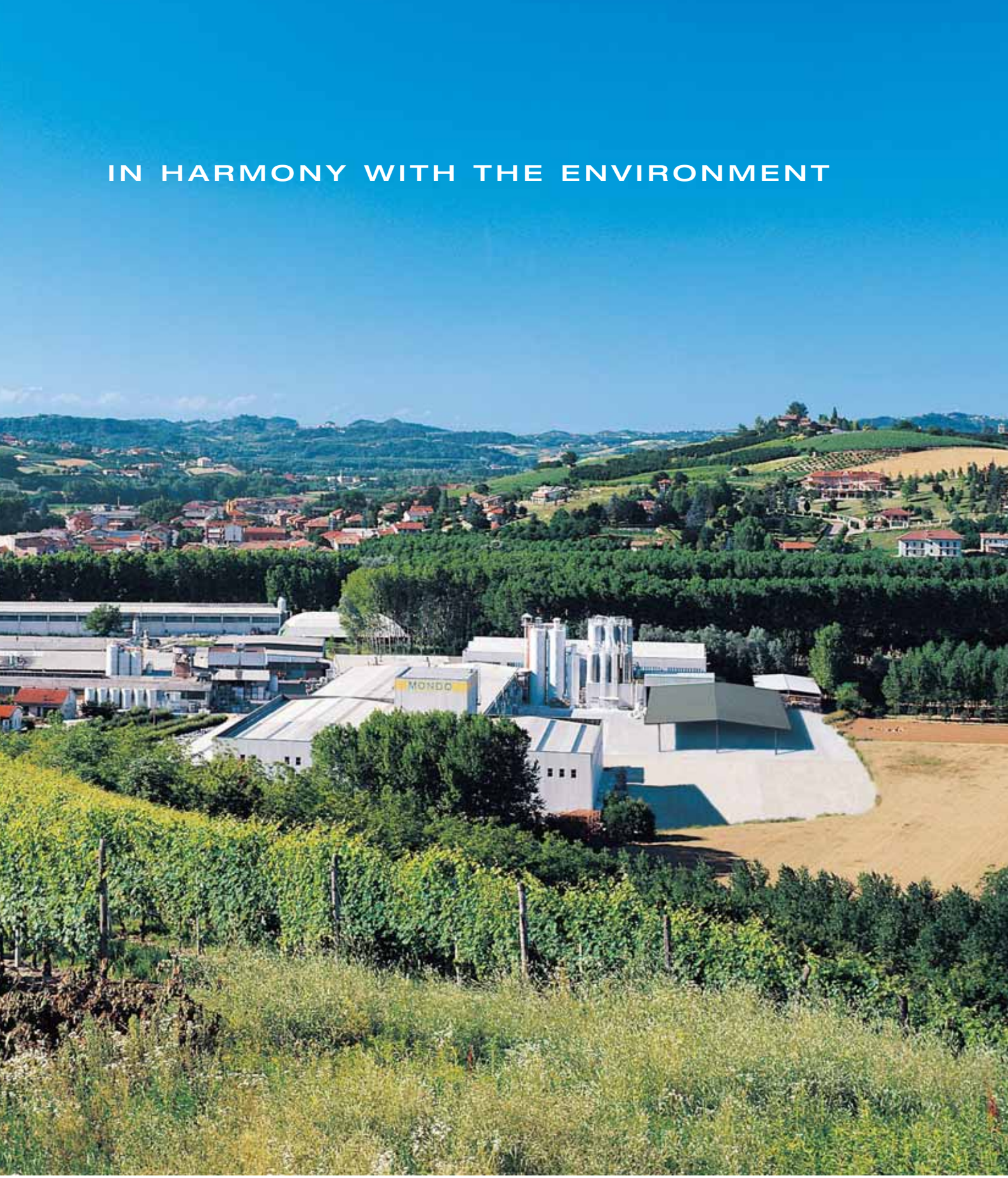
MONDO®

ENGINEERING HIGH QUALITY SURFACES



SGS ISO 14001:2004 · SGS ISO 9001:2008 · SGS ISO 9001:2000 · IQNet · AENOR Gestión Ambiental GA-2005/0005 · AENOR Empresa Registrada ER-1119/2001 · U.S. Green Building Council Member

IN HARMONY WITH THE ENVIRONMENT



Mondo has been a family owned company since its beginning in 1948. Mondo's success has been built upon our investments in technology and our commitment to the highest quality standards in the industry. Today, Mondo is a global company with over 1,500 employees in 13 production plants and sales subsidiaries, selling products in 193 countries. Mondo is the largest volume producer of sport surfaces.

EACH YEAR, WE INVEST 6% OF OUR REVENUES TOWARD RESEARCH &

GOAL

To contribute, through colors, to the improvement of the quality of life in different type of public environments by finding the tones and levels of clarity and saturation appropriate for the different uses.

RESEARCH

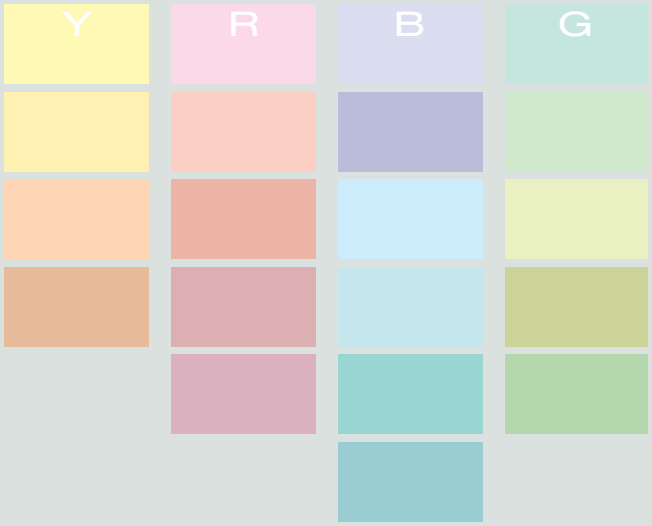
Mondo commissioned Giulio Bertagna and Aldo Bottoli's B&B Colordesign Studio to conduct a research project on developing different palette of colours organised according to use.

B&B Colordesign base their research on the psycho-physiological aspects of colour on the end user where they apply neurosciences to what they define as Colour Science.

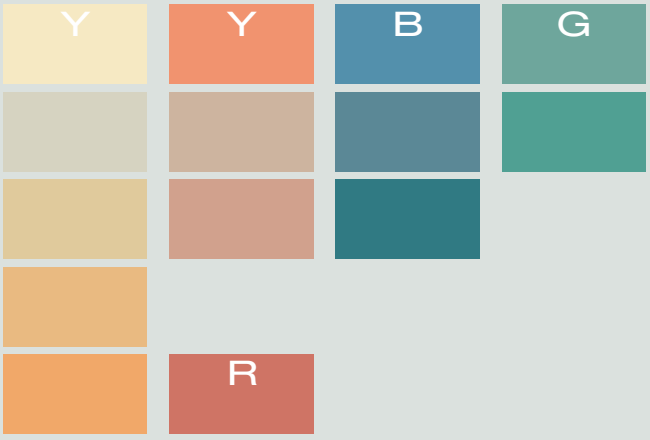
The new colours designed for the specific end use have been grouped according to the HML System and are arranged on thematic cards.

B&B PALETTE SUGGESTIONS

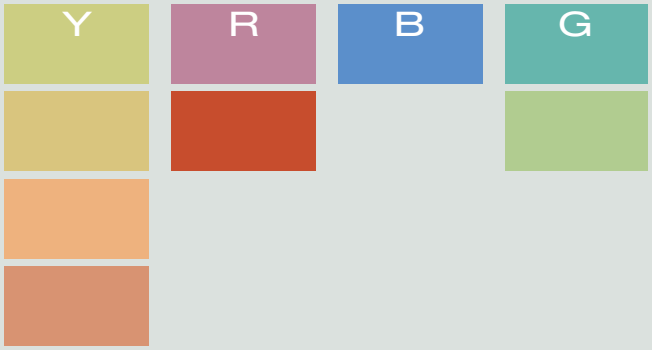
HEALTHCARE • CHILDREN



HEALTHCARE • ADULTS

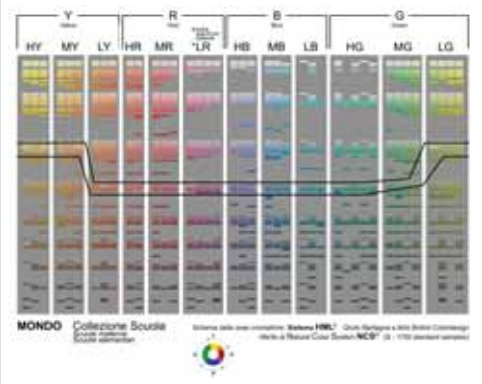


EDUCATION • NURSERY & PRIMARY SCHOOL



EDUCATION • SECONDARY SCHOOLS

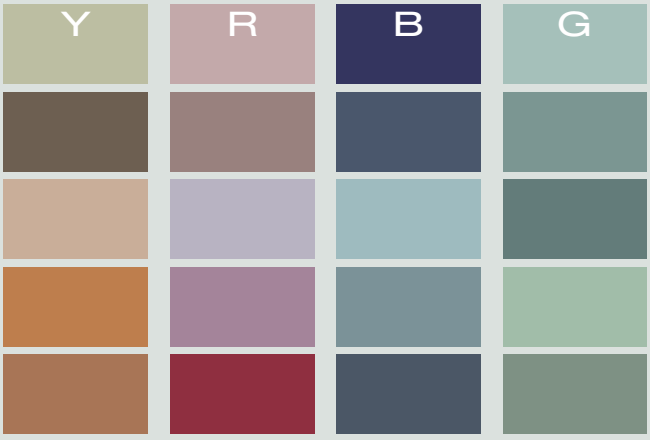
DEVELOPMENT:
WELL-BEING



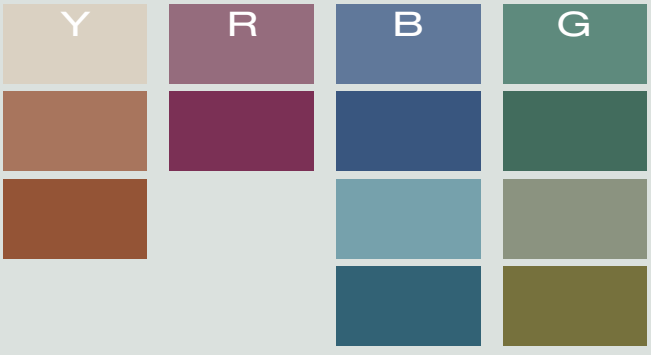
The HML System was created by Giulio Bertagna and Aldo Bottoli of B&B Colordesign in order to help designers choose colours, generate samples according to chromatic groups (yellows [Y], reds [R], blues [B] and greens [G]), and orders them according to colour frequencies (high [H], medium [M] and low [L]), that correspond to long, medium and short wavelengths.

HEALTHCARE • ELDERLY

OFFICES



EDUCATION • UNIVERSITIES



SHOPS • SHOPPING CENTRES

RESULTS

The results of the study led to an innovative colour palette organized according the end use.

COMFORT

COMFORT UNDERFOOT

Vinyl floorings are characterized by remarkable cushioned comfort underfoot.

WARM

Mondo floorings, compared to ceramics, have a better thermal conductivity value **(EN 12667).**

EFFECTIVE NOISE BARRIER

Compared to many other flooring products, Mondo vinyl floorings efficiently reduce the sound of foot traffic **(min 4 dB - max. 10 dB)**.
It can also act as an acoustical structural board (**ISO 140-8** and **ISO 717-2**).

PERFORMAN

CE

LONG LASTING

Exceptionally long-lasting thanks to the low values of residual indentation **(EN 433)**, very good flexibility **(EN 435)** and wear resistance **(EN 660-2)**.

WEAR RESISTANCE

Designed to suit high traffic areas:

- Wear resistance: **EN 660-2 Group T and P**
- CSTB classification: **U4 P3 E2/3 C1 suitable for high traffic areas**
- EN 685 Classification: **Class up to 43**

STAIN RESISTANCE

Mondo vinyl floorings stay perfectly clean thanks to their non porous surface **(EN 423)**.

CHEMICAL RESISTANCE

Vinyl floorings have an excellent chemical resistance to physiological liquids and hospital reagents, chemical substances, solvents, acids, alkaline solutions, oils and fats, disinfectants.

LOW MAINTENANCE

A protective coating is applied during the manufacturing process to make the subsequent maintenance of Mondo's floorings easier.

SAFE FOR THE ENVIRONMENT

Mondo floorings are designed to have a low emission of volatile organic compounds (VOC's).

ANTISTATIC

Vinyl floorings display an antistatic response when walked on **(EN 1815)**.

FIRE REACTION

Meets **EN 13501-1** standard, and is certified class **B_{fl} - S1 e C_{fl} - S1**. According the European Standards

SAFETY

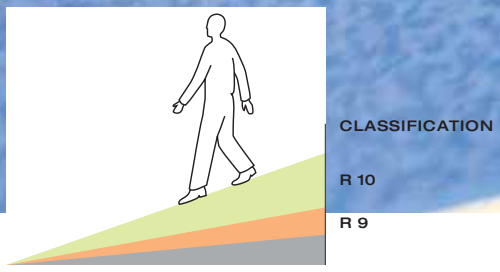
SAFE TO WALK ON

Vinyl floorings reduce slipperiness to a minimum, to the great advantage, safety and comfort of users. According to the national and international standards.

DIN 51130

Some of our vinyl products as Fluo can be produced in order to achieve the R10 classification during the determination of anti-slip characteristics - Standard DIN 51130

Determination of the anti-slip properties. Walking method on ramp test.



R 10 Safety/PC10 R 9 Standard product

HEALTHY

EXTRA HYGIENIC SOLUTIONS

BACTERIOSTATIC

Vinyl floorings with poliurethane finish are bacteriostatic.

WATER RESISTANT

Vinyl floorings with polyurethane finish are non-porous and therefore water resistant and **perfectly hygienic.**

WALL COVERING

The wall claddings can be easily disinfected having a perfect junction with the floor.
Vinyl Murale is a class 1 certified vinyl wall covering.
See pages 28 - 29 for more details.

FLASH COVE

It is possible to provide a perfect junction between the self coved skirting with the floor where special waterproofing and hygienic conditions are requested.

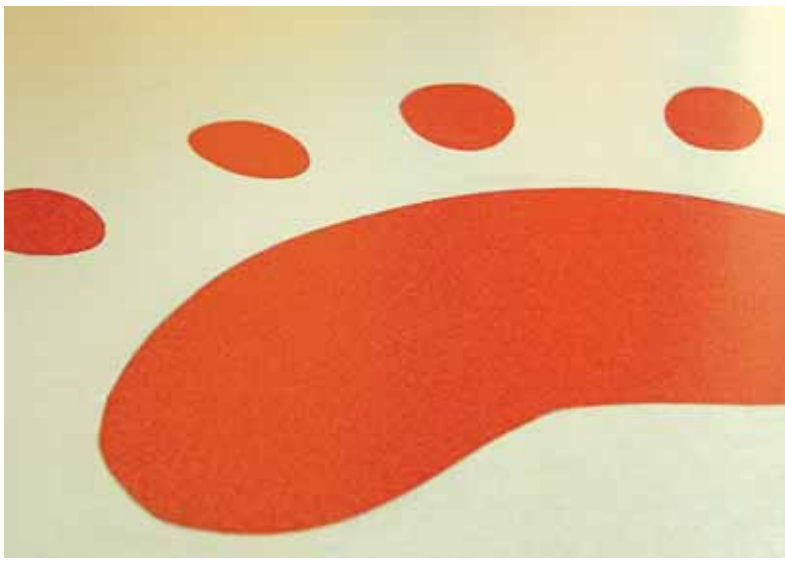
INLAID

LOGOS

WATER-JET TECHNOLOGY

Applies neither pressure nor heat,
so there is no distortion to the material.
Assemble cut material with no fluctuation
in the plane of the surface.

Aesthetics and durable.



P R

O D U C T S

C O M P A C T O

6009

6006

6001

6026

6027

6023

6028

6008

6011

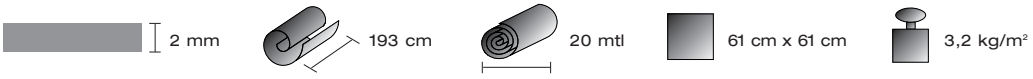
6020

6013

6004

TECHNICAL DATA

ISSUED IN ACCORDANCE WITH THE NORM UNI EN 649



GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Overall thickness	UNI EN 428	mm	nominal value + 0,13 nominal value - 0,10	2,0
Mass per unit area	UNI EN 430	g/m²	nominal value + 13 % nominal value - 10 %	3200
Density	UNI EN 436	kg/m³	nominal value + 50 nominal value - 50	1600
Residual indentation (after static loading)	UNI EN 433	mm	≤ 0,1	0,03
Dimensional stability	UNI EN 434	%	≤ 0,4 (rolls) ≤ 0,25 (tiles)	in conformity
Curling after exposure to heat	UNI EN 434	mm	≤ 8 (rolls) ≤ 2 (tiles)	in conformity
Flexibility (mandrel diameter 20 mm)	UNI EN 435 method A	-	no fissuring	no fissuring
Colour fastness to artificial light	EN 20105-B02 method 3	degree	blue scale ≥ 6 grey scale ≥ 3	≥ 6
Wear resistance (F_V)	UNI EN 660-2	mm³	2,0 ÷ 4,0	2,7
Wear group	UNI EN 649	group	-	P
Classification	UNI EN 685	class	-	21-23/31-34/41-43
Effect of castor chair	UNI EN 425	-	no surface change except slight matting	suitable with wheels type W
Seam strength	UNI EN 684	N/50 mm	≥ 240	≥ 240

ESSENTIAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Fire classification	UNI EN 13501-1	class	-	CLASS B_{fl}-s1 with or without adhesive
Anti-slip characteristics	DIN 51130	grade	-	R9
Dynamic coefficient of friction	UNI EN 13893	-	≥ 0,3	in conformity
Improvement in footfall sound absorption	ISO 140/8 ISO 717/2	dB	-	4
Thermal resistance	UNI EN 12667	m^2 K/W	-	0,006
Thermal conductivity	UNI EN 12667	W/mK	-	0,31

OPTIONAL PROPERTIES	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Vertical electrical resistance (R_1)	UNI EN 1081	Ohm	-	≥ 10^9
Electrostatic propensity	UNI EN 1815	kV	< 2 (antistatic)	in conformity
Effect of stains	UNI EN 423	-	-	not affected*

Mondo reserves the right to change product characteristics at any time.

* When tested by means of detergents specifically used for vinyl floorcoverings.

PIXEL




PIXEL PT

PT 2032

PT 2021 PT 2012 PT 2011

PT 2022 PT 2013 PT 2051

PT 2023 PT 2014 PT 2001

PT 2053 PT 2052 PT 2041

PT 2054 PT 2042 PT 2002

PT 2043 PT 2033 PT 2003

PT 2055 PT 2031 PT 2004

PIXEL PP

PP 1032

PP 1011 PP 1012 PP 1021

PP 1051 PP 1013 PP 1022

PP 1001 PP 1014 PP 1023

PP 1041 PP 1052 PP 1053

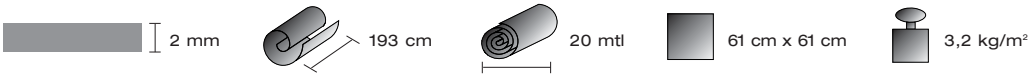
PP 1002 PP 1042 PP 1054

PP 1003 PP 1033 PP 1043

PP 1004 PP 1031 PP 1055

TECHNICAL DATA

ISSUED IN ACCORDANCE WITH THE NORM UNI EN 649



GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Overall thickness	UNI EN 428	mm	nominal value + 0,13 nominal value - 0,10	2,0
Thickness of the wear layer	UNI EN 429	mm	nominal value + 13 % nominal value - 10 %	1,0
Mass per unit area	UNI EN 430	g/m²	nominal value + 13 % nominal value - 10 %	3200
Density of the wear layer	UNI EN 436	kg/m³	nominal value + 50 nominal value - 50	1600
Residual indentation (after static loading)	UNI EN 433	mm	≤ 0,1	0,03
Dimensional stability	UNI EN 434	%	≤ 0,4 (rolls) ≤ 0,25 (tiles)	in conformity
Curling after exposure to heat	UNI EN 434	mm	≤ 8 (rolls) ≤ 2 (tiles)	in conformity
Flexibility (mandrel diameter 20 mm)	UNI EN 435 method A	-	no fissuring	no fissuring
Colour fastness to artificial light	EN 20105-B02 method 3	degree	blue scale ≥ 6 grey scale ≥ 3	≥ 6
Wear resistance (F_V)	UNI EN 660-2	mm³	2,0 ÷ 4,0	2,7
Wear group	UNI EN 649	group	-	P
Classification	UNI EN 685	class	-	21-23/31-34/41-43
Effect of castor chair	UNI EN 425	-	no surface change except slight matting	suitable with wheels type W
Seam strength	UNI EN 684	N/50 mm	≥ 240	≥ 240

ESSENTIAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Fire classification	UNI EN 13501-1	class	-	CLASS B_{fl}-s1 with or without adhesive
Anti-slip characteristics	DIN 51130	grade	-	R9
Dynamic coefficient of friction	UNI EN 13893	-	≥ 0,3	in conformity
Improvement in footfall sound absorption	ISO 140/8 ISO 717/2	dB	-	4
Thermal resistance	UNI EN 12667	m² K/W	-	0,006
Thermal conductivity	UNI EN 12667	W/mK	-	0,31

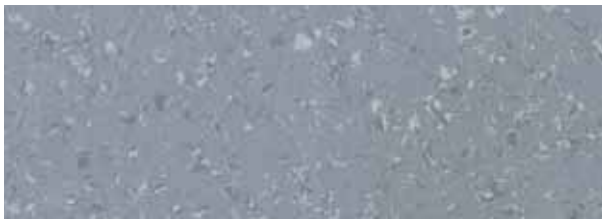
OPTIONAL PROPERTIES	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Vertical electrical resistance (R_1)	UNI EN 1081	Ohm	-	≥ 10^9
Electrostatic propensity	UNI EN 1815	kV	< 2 (antistatic)	in conformity
Effect of stains	UNI EN 423	-	-	not affected*

Mondo reserves the right to change product characteristics at any time.

* When tested by means of detergents specifically used for vinyl floorcoverings.

D R O P S

8103



8109

8107

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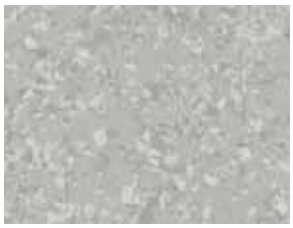

8106

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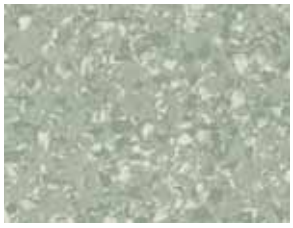

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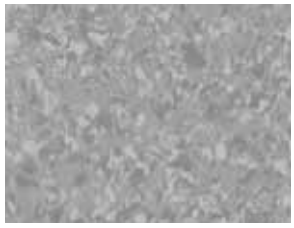

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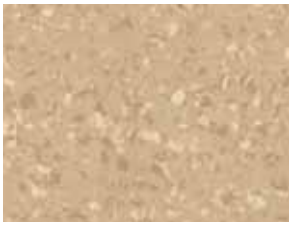

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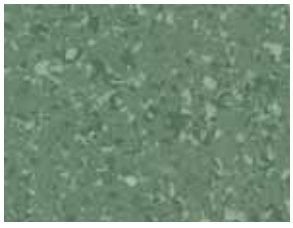
8101



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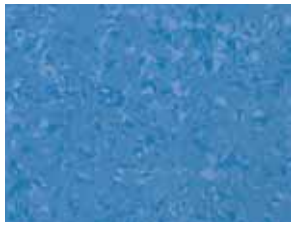

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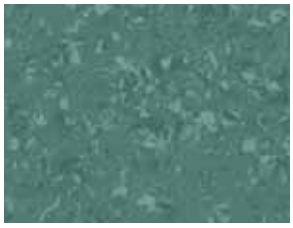

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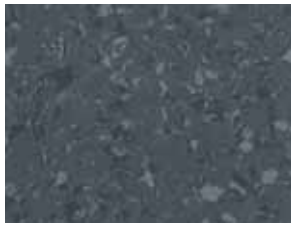
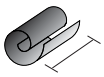


8104

TECHNICAL DATA

ISSUED IN ACCORDANCE WITH THE NORM UNI EN 649


2 mm


193 cm


20 mtl


61 cm x 61 cm


3,2 kg/m²

GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Overall thickness	UNI EN 428	mm	nominal value + 13 nominal value - 10	2,0
Mass per unit area	UNI EN 430	g/m²	nominal value + 13 % nominal value - 10 %	3200
Density	UNI EN 436	kg/m³	nominal value + 50 nominal value - 50	1600
Residual indentation	UNI EN 433	mm	≤ 0,1	0,03
Dimensional stability	UNI EN 434	%	≤ 0,4 (rolls) ≤ 0,25 (tiles)	in conformity
Curling after exposure to heat	UNI EN 434	mm	≤ 8 (rolls) ≤ 2 (tiles)	in conformity
Flexibility (mandrel diameter 20 mm)	UNI EN 435 method A	-	no fissuring	no fissuring
Colour fastness to artificial light	EN 20105-B02 method 3	degree	blue scale ≥ 6 grey scale ≥ 3	≥ 6
Wear resistance (F_V)	UNI EN 660-2	mm³	2,0 ÷ 4,0	2,7
Wear group	UNI EN 649	group	-	P
Classification	UNI EN 685	class	-	21-23/31-34/41-43
Effect of castor chair	UNI EN 425	-	no surface change except slight matting	suitable with wheels type W
Seam strength	UNI EN 684	N/50 mm	≥ 240	≥ 240

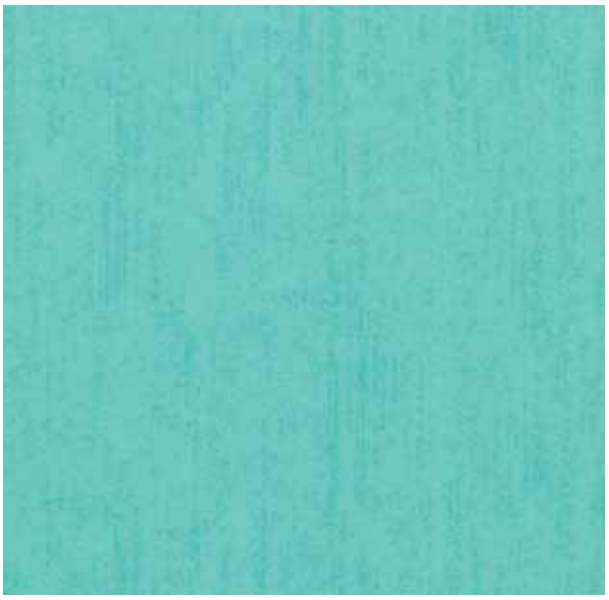
ESSENTIAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Fire classification	UNI EN 13501-1	class	-	CLASS B_{fl}-s1 with or without adhesive
Anti-slip characteristics	DIN 51130	grade	-	R9
Dynamic coefficient of friction	UNI EN 13893	-	≥ 0,3	in conformity
Improvement in footfall sound absorption	ISO 140/8 ISO 717/2	dB	-	4
Thermal resistance	UNI EN 12667	m² K/W	-	0,006
Thermal conductivity	UNI EN 12667	W/mK	-	0,31

OPTIONAL PROPERTIES	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Vertical electrical resistance (R_1)	UNI EN 1081	Ohm	-	≥ 10^9
Electrostatic propensity	UNI EN 1815	kV	< 2 (antistatic)	in conformity
Effect of stains	UNI EN 423	-	-	not affected*

Mondo reserves the right to change product characteristics at any time.

* When tested by means of detergents specifically used for vinyl floorcoverings.

FLUO NEW!



FL 7678

FL 7671

FL 7677

FL 7679

FL 7684

FL 7672

FL 7680

FL 7683

FL 7674

FL 7673

FL 7670

FL 7682

FL 7675

FL 7676

FL 7685

FL 7681

TECHNICAL DATA

ISSUED IN ACCORDANCE WITH THE NORM UNI EN 653

GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Overall thickness	UNI EN 428	mm	nominal value + 0,18 nominal value - 0,15	2,0
Thickness of the wear layer	UNI EN 429	mm	nominal value + 13 % nominal value - 10 %	0,7
Mass per unit area	UNI EN 430	g/m²	nominal value + 13 % nominal value - 10 %	2300
Density of the wear layer	UNI EN 436	kg/m³	nominal value + 50 nominal value - 50	1250
Residual indentation (after static loading)	UNI EN 433	mm	≤ 0,2	0,1
Dimensional stability	UNI EN 434	%	≤ 0,4	0,1
Curling after exposure to heat	UNI EN 434	mm	≤ 8	1
Colour fastness to artificial light	EN 20105-B02 method 3	degree	blue scale ≥ 6 grey scale ≥ 3	≥ 6
Wear group	UNI EN 649	group	-	T
Classification	UNI EN 685	class	-	21-23/31-33/41-42
Effect of castor chair	UNI EN 425	-	no surface change except slight matting	suitable with wheels type W
Seam strength	UNI EN 684	N/50 mm	≥ 150	200
Peel strength	UNI EN 431	N/50 mm	≥ 50	75

ESSENTIAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Fire classification	UNI EN 13501-1	class	-	CLASS C_{fl}-s1 with or without adhesive
Anti-slip characteristics	DIN 51130	degree	-	R9
Dynamic coefficient of friction	UNI EN 13893	-	≥ 0,3	in conformity (DS)
Improvement in footfall sound absorption	ISO 140/8 ISO 717/2	dB	-	10
Thermal resistance	UNI EN 12667	m^2 K/W	-	0,006
Thermal conductivity	UNI EN 12667	W/mK	-	0,321

OPTIONAL PROPERTIES	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS
Vertical electrical resistance (R_1)	UNI EN 1081	Ohm	-	≥ 10^{10}
Electrostatic propensity	UNI EN 1815	kV	< 2 (antistatic)	in conformity
Effect of stains	UNI EN 423	-	-	not affected*

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* When tested by means of detergents specifically used for vinyl floorcoverings.

C E R A M I F L E X




PM 981*


PM 988


PM 70


PG 46*


PM 71


PM 82


PG 62*


PG 63


PM 30


PG 64


PG 61*


GR 13*

LS 100


LS 102*

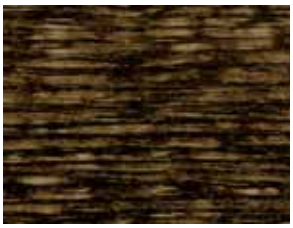

LS 103*


LS 106*


LS 101


LS 107


LS 105


LS 109


LS 104*

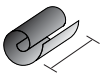

LS 108*

* Loose - laid available

TECHNICAL DATA

ISSUED IN ACCORDANCE WITH THE NORM UNI EN 653


3 mm
Loose-laid: 3,8 mm


128 cm


20 mtl


32 X 32 cm • 64 X 64 cm
64 X 42 cm • 61 X 61 cm • 16 X 100 cm
Loose-laid: different sizes


3,5 kg/m²
Loose-laid: 4,1 kg/m²

GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS	
				Ceramiflex	**Loose-laid Ceramiflex**
Overall thickness	UNI EN 428	mm	nominal value + 0,18 nominal value - 0,15	3,0	3,8
Thickness of the wear layer	UNI EN 429	mm	nominal value + 13 % nominal value - 10 %	0,45	0,7
Mass per unit area	UNI EN 430	g/m²	nominal value + 13 % nominal value - 10 %	3500	4100
Density of the wear layer	UNI EN 436	kg/m³	nominal value + 50 nominal value - 50	1100	1100
Residual indentation (after static loading)	UNI EN 433	mm	≤ 0,2	0,1	0,11
Dimensional stability	UNI EN 434	%	≤ 0,4 (rolls) ≤ 0,25 (tiles)	0,05	0,05
Curling after exposure to heat	UNI EN 434	mm	≤ 8 (rolls) ≤ 2 (tiles)	0	0
Colour fastness to artificial light	EN 20105-B02 method 3	degree	blue scale ≥ 6 grey scale ≥ 3	≥ 6	≥ 6
Wear group	-	group	-	T	T
Classification	UNI EN 685	class	-	21-23/31-32/41	21-23/31-33/41-42
Effect of castor chair	UNI EN 425	-	no surface change except slight matting	suitable with wheels type W	suitable with wheels type W
Effect of simulated movement of a furniture leg	UNI EN 424	-	no damage with type 2 foot	suitable	suitable
Seam strength	UNI EN 684	N/50 mm	≥ 150	300	300
Peel strength	UNI EN 431	N/50 mm	≥ 50	100	100

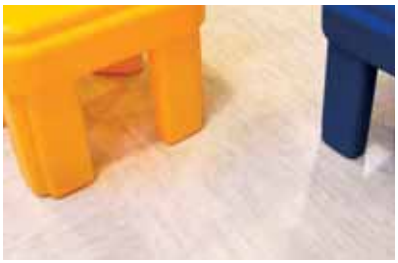
ESSENTIAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS	
				Ceramiflex	**Loose-laid Ceramiflex**
Fire classification	UNI EN 13501-1	class	-	CLASS B_{fl}-s1 with or without adhesive	CLASS C_{fl}-s1 with or without adhesive
Anti-slip characteristics	DIN 51130	grade	-	R9	R9
Dynamic coefficient of friction	UNI EN 13893	-	≥ 0,3	in conformity (DS)	in conformity (DS)
Improvement in footfall sound absorption	ISO 140/8 ISO 717/2	dB	-	7	8
Thermal resistance	UNI EN 12667	m² K/W	-	0,0098	0,0304
Thermal conductivity	UNI EN 12667	W/mK	-	0,305	0,125

OPTIONAL PROPERTIES	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS	
				Ceramiflex	**Loose-laid Ceramiflex**
Vertical electrical resistance (R_1)	UNI EN 1081	Ohm	-	≥ 10^{11}	≥ 10^{11}
Electrostatic propensity	UNI EN 1815	kV	< 2 (antistatic)	in conformity	in conformity
Effect of stains	UNI EN 423	-	-	not affected*	not affected*

Mondo reserves the right to change product characteristics at any time.

* When tested by means of detergents specifically used for vinyl floorcoverings.

L O O M

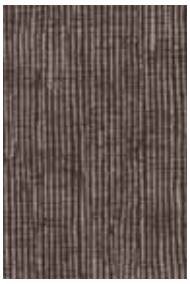




D 1*


D 2*


D 3


A 2


A 3


A 1*


E 1


E 3


E 2*


G 3*


G 1*


G 2


C 3*


C 1


C 2*


F 2*


F 1*


F 3


H 2


H 1

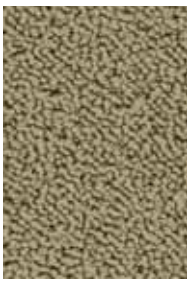

H 3

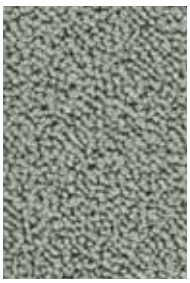

B 3


B 2


B 1


I 3


I 2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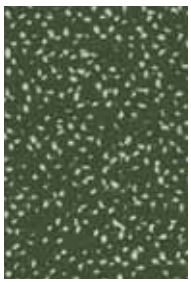
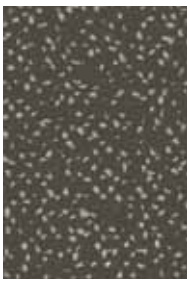

L 2*


L 1

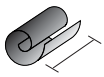

L 3

* Loose - laid available

TECHNICAL DATA

ISSUED IN ACCORDANCE WITH THE NORM UNI EN 653


3 mm
Loose-laid: 3,8 mm


128 cm


20 mtl


61 cm x 61 cm
Loose-laid: different sizes


3,5 kg/m²
Loose-laid: 4,1 kg/m²

GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS	
				Loom	Loose-laid Loom
Overall thickness	UNI EN 428	mm	nominal value + 0,18 nominal value - 0,15	3,0	3,8
Thickness of the wear layer	UNI EN 429	mm	nominal value + 13 % nominal value - 10 %	0,45	0,7
Mass per unit area	UNI EN 430	g/m²	nominal value + 13 % nominal value - 10 %	3500	4100
Density of the wear layer	UNI EN 436	kg/m³	nominal value + 50 nominal value - 50	1100	1100
Residual indentation (after static loading)	UNI EN 433	mm	≤ 0,20	0,1	0,11
Dimensional stability	UNI EN 434	%	≤ 0,4 (rolls) ≤ 0,25 (tiles)	0,05	0,05
Curling after exposure to heat	UNI EN 434	mm	≤ 8 (rolls) ≤ 2 (tiles)	0	0
Colour fastness to artificial light	EN 20105-B02 method 3	degree	blue scale ≥ 6 grey scale ≥ 3	≥ 6	≥ 6
Wear group	-	group	-	T	T
Classification	UNI EN 685	class	-	21-23/31-32/41	21-23/31-33/41-42
Effect of castor chair	UNI EN 425	-	no surface variation except slight matting	suitable with wheels type W	suitable with wheels type W
Effect of simulated movement of a furniture leg	UNI EN 424	-	no damage with type 2 foot	suitable	suitable
Seam strength	UNI EN 684	N/50 mm	≥ 150	300	300
Peel strength	UNI EN 431	N/50 mm	≥ 50	100	100

ESSENTIAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS	
				Loom	Loose-laid Loom
Fire classification	UNI EN 13501-1	class	-	CLASS B_{fl}-s1 with or without adhesive	CLASS C_{fl}-s1 with or without adhesive
Anti-slip characteristics	DIN 51130	grade	-	R9	R9
Dynamic coefficient of friction	UNI EN 13893	-	≥ 0,3	in conformity (DS)	in conformity (DS)
Improvement in footfall sound absorption	ISO 140/8 ISO 717/2	dB	-	7	8
Thermal resistance	UNI EN 12667	m² K/W	-	0,0098	0,0304
Thermal conductivity	UNI EN 12667	W/mK	-	0,305	0,125

OPTIONAL PROPERTIES	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS	
				Loom	Loose-laid Loom
Vertical electrical resistance (R_1)	UNI EN 1081	Ohm	-	≥ 10^{11}	≥ 10^{11}
Electrostatic propensity	UNI EN 1815	kV	< 2 (antistatic)	in conformity	in conformity
Effect of stains	UNI EN 423	-	-	not affected*	not affected*

Mondo reserves the right to change product characteristics at any time.

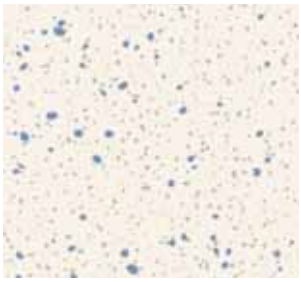
* When tested by means of detergents specifically used for vinyl floorcoverings.

VINYL MURALE

106

M 7118

M 7115

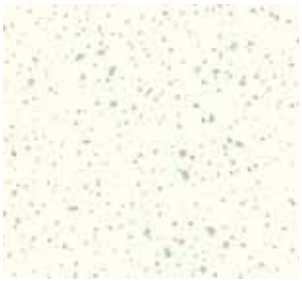


230

104

M 7114

M 7116

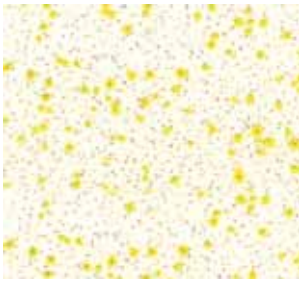


234

M 7112

M 7111

103

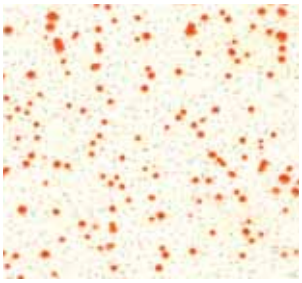


237

102

M 7110

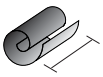
M 7113



238

TECHNICAL DATA


1,2 mm • 1,5 mm


180 / 200 cm


25 mtl


1,2 mm: 1,45 kg/m²
1,5 mm: 1,8 kg/m²

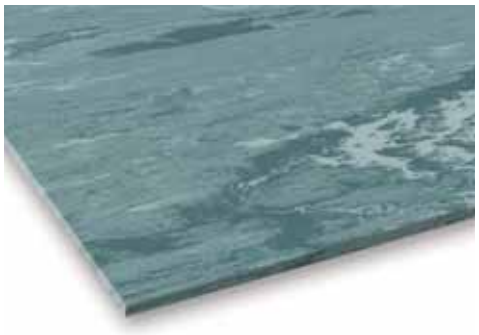
GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	AVERAGE VALUES FROM MANUFACTURING CONTROLS	
			Murale 1,2	**Murale 1,5**
Thickness	UNI EN 428	mm	1,2	1,5
Mass per unit area	UNI EN 430	g/m²	1450	1800
Density	UNI EN 436	kg/m³	1200	1200
Dimensional stability	UNI EN 434	%	< 0,1	< 0,1
Curling after exposure to heat	UNI EN 434	mm	1	1
Flexibility (mandrel diameter 20 mm)	UNI EN 435 method A	-	no fissuring	no fissuring
Colour fastness to artificial light	EN 20105-B02 method 3	degree	≥ 6	≥ 6
Seam strength	UNI EN 684	N/50 mm	250	300
ESSENTIAL REQUIREMENTS	**TEST METHODS**	**UNIT OF MEASURE**	**AVERAGE VALUES FROM MANUFACTURING CONTROLS**	
Reaction to fire	UNI 8457 • UNI 9174 (walled)	class	CLASS 1	CLASS 1
Thermal resistance	UNI EN 12667	m² K/W	0,004	0,005
Thermal conductivity	UNI EN 12667	W/mK	0,321	0,321
OPTIONAL PROPERTIES	**TEST METHODS**	**UNIT OF MEASURE**	**AVERAGE VALUES FROM MANUFACTURING CONTROLS**	
Effect of stains	UNI EN 423	-	not affected*	not affected*

Mondo reserves the right to change product characteristics at any time.

* When tested by means of detergents specifically used for vinyl wall claddings.

STATIC DISSIPATIVE CONDUCTIVE

COMPACTO/SD Static Dissipative



Electrical Solution

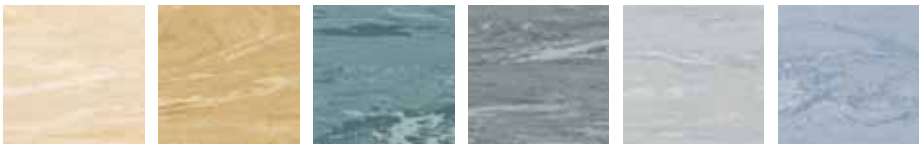
Complies to **EN 1081** from 10^6 to 10^9 Ohm

Electrical Propensity: complies to **EN 1815** < 1 KV.

Recommended applications:

Laboratories, Hospital Operating Rooms, Electronic Manufacturing Areas, IT Installations, Cleaning Rooms.

2 mm | 200 cm | 20 mtl | 3,4 kg/m²



SD 5060 | SD 5070 | SD 5080 | SD 5030 | SD 5110 | SD 5050

DROPS/EC Conductive

Electrical Solution

Complies to **EN 1081** from 10^4 to 10^6 Ohm

Electrical Propensity: complies to **EN 1815** in conformiy.

Recommended applications:

Laboratories, Hospital Operating Rooms, Electronic Manufacturing Areas, IT Installations, Cleaning Rooms.

2 mm | 200 cm | 20 mtl | 2,9 kg/m²

8302 C | 8304 C | 8303 C | 8300 C | 8301 C

DROPS/SD Static Dissipative

Electrical Solution

Complies to **EN 1081** from 10^6 to 10^9 Ohm

Electrical Propensity: complies to **EN 1815** < 1 KV.

Recommended applications:

Laboratories, Hospital Operating Rooms, Electronic Manufacturing Areas, IT Installations, Cleaning Rooms.

2 mm | 200 cm | 20 mtl | 3 kg/m²

8200 SD | 8201 SD | 8203 SD | 8204 SD | 8202 SD

TECHNICAL DATA

ISSUED IN ACCORDANCE WITH THE NORM UNI EN 1817

GENERAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS		
				Static Dissipative Compacto SD	Static Dissipative Drops SD	Conductive Drops EC
Mass per unit area	UNI EN 430	g/m²	nominal value + 13 % nominal value - 10 %	3400	3030	2900
Density	UNI EN 436	kg/m³	nominal value + 50 nominal value - 50	1700	1515	1450
Residual indentation (after static loading)	UNI EN 433	mm	≤ 0,1	≤ 0,1	≤ 0,1	≤ 0,1
Dimensional stability	UNI EN 434	%	≤ 0,4 (rolls) ≤ 0,25 (tiles)	≤ 0,4 (rolls) ≤ 0,25 (tiles)		≤ 0,4 (rolls) ≤ 0,25 (tiles)
Curling after exposure to heat	UNI EN 434	mm	≤ 8 (rolls) ≤ 2 (tiles)	≤ 8 (rolls) ≤ 2 (tiles)		≤ 8 (rolls) ≤ 2 (tiles)
Flexibility (mandrel diameter 20 mm)	UNI EN 435 method A	-	no fissuring	no fissuring		no fissuring
Colour fastness to artificial light	EN 20105-B02 method 3	degree	blue scale ≥ 6 grey scale ≥ 3	≥ 6		≥ 6
Wear group	UNI EN 649	group	-	M	P	P
Classification	UNI EN 685	class	-	21-23/31-34/41-43		21-23/31-34/41-43
Effect of castor chair	UNI EN 425	-	no surface change except slight matting	suitable with wheels type W		suitable with wheels type W
Seam strength	UNI EN 684	N/50 mm	≥ 240	≥ 240		≥ 240

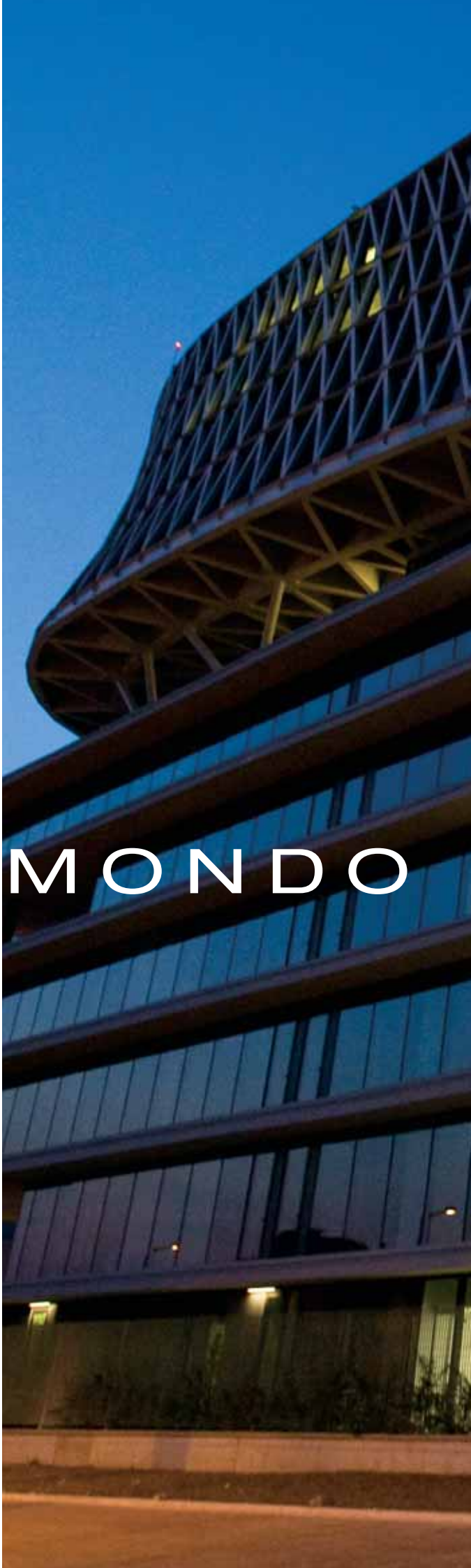
ESSENTIAL REQUIREMENTS	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS		
				Static Dissipative Compacto SD	Static Dissipative Drops SD	Conductive Drops EC
Fire classification	UNI EN 13501-1	class	-	CLASSE B_{fl}-s1 with or without adhesive		
Anti-slip characteristics	DIN 51130	degree	-	R9		R9
Dynamic coefficient of friction	UNI EN 13893	-	≥ 0,3	in conformity		in conformity
Improvement in footfall sound absorption	ISO 140/8 ISO 717/2	dB	-	4		4
Thermal resistance	UNI EN 12667	m² K/W	-	0,006		0,006
Thermal conductivity	UNI EN 12667	W/mK	-	0,315		0,315

OPTIONAL PROPERTIES	TEST METHODS	UNIT OF MEASURE	REQUIREMENTS	AVERAGE VALUES FROM MANUFACTURING CONTROLS		
				Static Dissipative Compacto SD	Static Dissipative Drops SD	Conductive Drops EC
Vertical electrical resistance (R_1)	UNI EN 1081	Ohm	10^6 - 10^9	10^7	10^7	-
			< 10^6	-	-	$5x10^4$ - $1x10^6$
Electrostatic propensity	UNI EN 1815	kV	< 2 (antistatic)	< 1	< 1	in conformity
Effect of stains	UNI EN 423	-	-	not affected*		

Mondo reserves the right to change product characteristics at any time.

* When tested by means of detergents specifically used for vinyl floorcoverings.

WWW.MONDO



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