GRIESSER

Griesser Premium Colors.
GriColors.

GriColors

BiColor

VSR 901

VSR 904

VSR 130

GRICOLORS

The colors of our sun protection systems should reflect what you are looking for, influence the character of the architecture and create a personal ambience. These requirements continuously challenge our developers, planners and painters day after day. After all, there are virtually no limits to diversity. We have selected 100 color shades – GriColors – and grouped them into four collections, for which nature provided the model. Glass & Stone, Sun & Fire, Water & Moss and Earth & Wood are made up of unique colors.

BICOLOR – A NEW ACCENT FOR EXTERNAL VENETIAN BLINDS

BiColor coatings, with their outer surface adapted to suit the facade while the inner surface optimises solar shading through a light, neutral colour, are anything but impossible for our staff. We will produce louvres in your custom colour as of an order quantity of one louvred blind. Two-sided louvre coating in different colours using any of the 100 from the GriColors collection.

Our colour recommendations for functional buildings

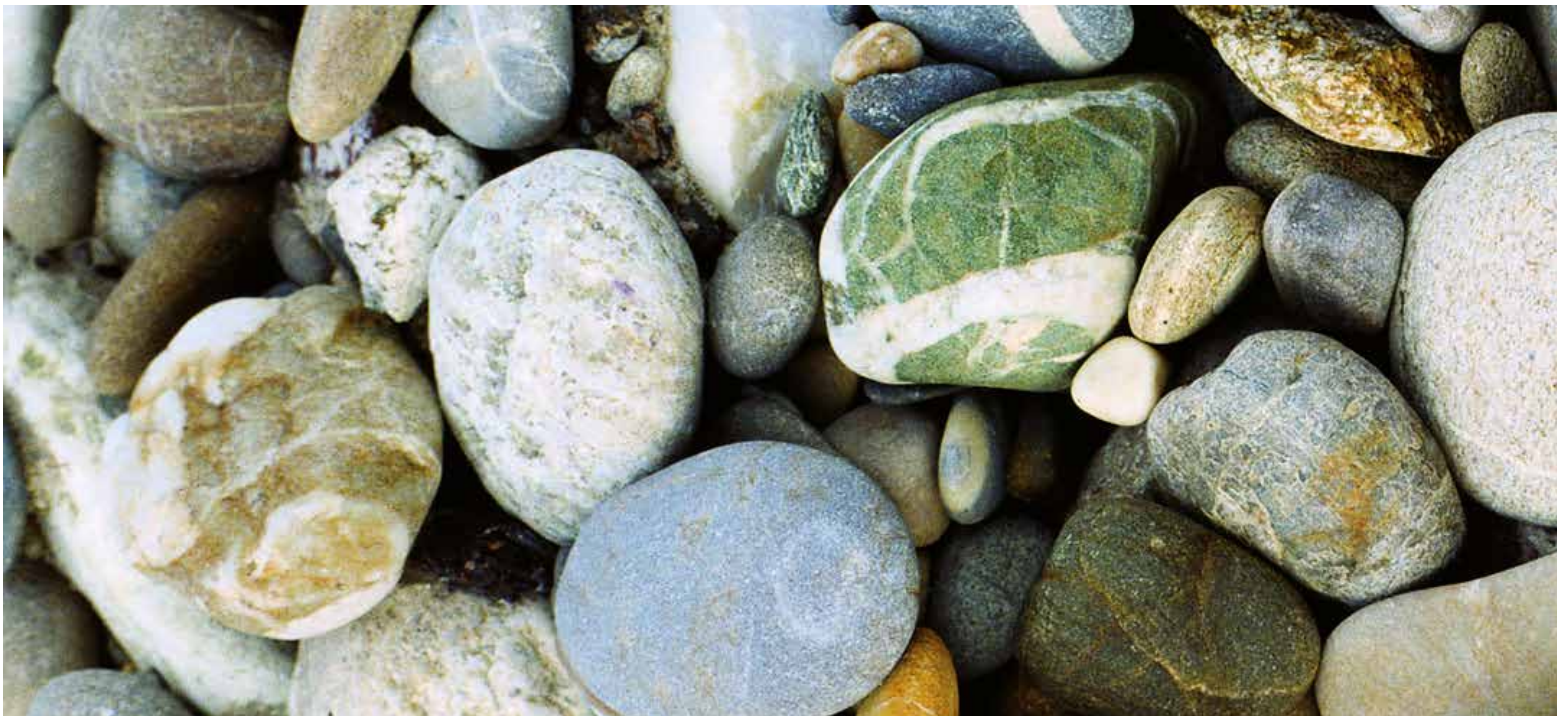
Outside colour: as light as possible or white (with high degree of reflection) so that daylight is directed into the interior in open position. Interior colour: light grey (VSR 904) or medium grey (VSR 130) to avoid glare.

Our colour recommendations for residential buildings

BiColor is also recommended for façade colouring of residential buildings. Outside colour: any. Interior colour: white (VSR 901), light grey (VSR 904) or medium grey (VSR 130).

NCS Natural Color System®

RAL



GriColors: Glass & Stone

NCS S 0502-B/VSR 010

NCS S 0502-Y/VSR 901

RAL 9010

RAL 9003

NCS S 1005-Y20R

NCS S 1002-Y

RAL 9016

NCS S 1502-Y

NCS S 1500-N

NCS S 1502-G/VSR 904

RAL 7035

All samples are produced with standard print colors and may therefore deviate from the original color shades.

RAL 9006/VSR 140

NCS S 5500-N

NCS S 1005-B20G

NCS S 2502-G

RAL 9007/VSR 907

NCS S 3502-B

NCS S 3000-N/VSR 130

NCS S 7005-R80B

NCS S 4005-R80B

NCS S 4502-G

NCS S 7500-N

NCS S 5010-B10G

NCS S 3502-R

NCS S 8000-N

RAL 7016

NCS S 4000-N

NCS S 8502-B

GriColors: Sun & Fire

NCS S 1060-Y

NCS S 3560-Y80R/VSR 120

NCS S 1070-Y10R

RAL 3003

NCS S 1060-Y20R

NCS S 3060-R

NCS S 1080-Y20R/VSR 720

NCS S 3560-R/VSR 330

NCS S 2075-Y60R

NSC S 6020-R20B

NCS S 2070-Y70R

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NCS S 2020-R10B

NCS S 4010-R30B

NCS S 3030-R

NCS S 3050-R40B

NCS S 2050-R10B

NCS S 4040-R50B

NCS S 3050-R10B

NCS S 5040-R40B

NCS S 4040-R

NCS S 4050-R20B

GriColors: Water & Moss

NCS S 2020-G90Y/VSR 909

NCS S 1040-G10Y

NCS S 2040-B70G

NCS S 3030-G30Y

NCS S 3060-G20Y

NCS S 3050-B80G

RAL 6001

NCS S 2010-B70G

NCS S 3060-B70G

NCS S 4550-G20Y

NCS S 3010-B70G

NCS S 2020-B70G

NCS S 5040-G40Y

NCS S 4020-B70G

NCS S 2040-B30G

NCS S 7020-B90G/VSR 220

NCS S 4050-B90G

NCS S 3040-B40G/VSR 908

NCS S 3060-B30G

NCS S 2060-R90B

NCS S 6030-R70B

NCS S 4050-B40G

RAL 5005

NCS S 8010-R90B

NCS S 5030-B50G

NCS S 4030-R90B/VSR 903

NCS S 3060-R90B

NCS S 7020-B50G

NCS S 4040-R90B

NCS S 3060-R80B

NCS S 3060-B

NCS S 4550-R90B

NCS S 4050-R80B

NCS S 5040-B/VSR 440

NCS S 6020-R80B

RAL 5002/VSR 906

GriColors: Earth & Wood

NCS S 1010-Y50R

NCS S 4040-Y30R

NCS S 8010-Y50R/VSR 071

NCS S 2010-Y30R/VSR 240

NCS S 5040-Y40R

NCS S 8010-Y90R

NCS S 4010-Y50R/VSR 110

NCS S 6020-Y50R

NCS S 8005-Y50R

NCS S 6010-Y50R

NCS S 7020-Y70R

NCS S 8502-R

NCS S 5010-G90Y

NCS S 6030-Y90R

VSR 780

All samples are produced with standard print colors and may therefore deviate from the original color shades.

TECHNICAL VALUES FOR EXTERNAL VENETIAN BLINDS

Curtain color	CURTAIN TIGHTLY CLOSED				GLASS + CURTAIN OUTSIDE	
	T_e	R_e	T_v	R_v	g-tot$_e$	g-tot$_{45°}$
VSR 010/NCS S 0502-B	0.00	0.73	0.00	0.83	0.02	0.10
VSR 071/NCS S 8010-Y50R	0.00	0.09	0.00	0.07	0.08	0.09
VSR 110/NCS S 4010-Y50R	0.00	0.31	0.00	0.31	0.06	0.09
VSR 120/NCS S 3560-Y80R	0.00	0.19	0.00	0.11	0.07	0.09
VSR 130/NSC S 3000-N	0.00	0.39	0.00	0.46	0.05	0.10
VSR 140/RAL 9006	0.00	0.55	0.00	0.54	0.04	0.10
VSR 220/NCS S 7020-B90G	0.00	0.25	0.00	0.07	0.07	0.09
VSR 240/NSC S 2010-Y30R	0.00	0.59	0.00	0.57	0.04	0.10
VSR 330/NCS S 3560-R	0.00	0.36	0.00	0.08	0.06	0.10
VSR 440/NCS S 5040-B	0.00	0.26	0.00	0.10	0.07	0.09
VSR 720/NCS S 1080-Y20R	0.00	0.54	0.00	0.48	0.04	0.10
VSR 780	0.00	0.23	0.00	0.20	0.07	0.09
VSR 901/NCS S 0502-Y	0.00	0.75	0.00	0.84	0.02	0.10
VSR 903/NCS S 4030-R90B	0.00	0.37	0.00	0.21	0.06	0.10
VSR 904/NCS S 1502-G	0.00	0.55	0.00	0.63	0.04	0.10
VSR 906/NCS S 4350-R74B	0.00	0.32	0.00	0.07	0.06	0.09
VSR 907	0.00	0.34	0.00	0.32	0.06	0.09
VSR 908/NCS S 3040-B40G	0.00	0.30	0.00	0.26	0.06	0.09
VSR 909/NCS S 2020-G90Y	0.00	0.51	0.00	0.54	0.04	0.10

CONDITIONS/INFORMATION

External solar shading is not rear-ventilated.

Use g-tot$_{45°}$ for slats which don't close.

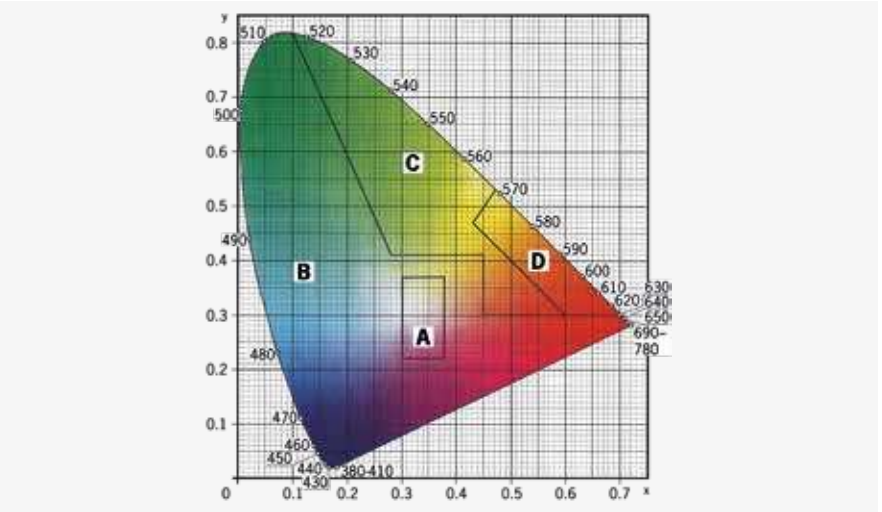
The results should be regarded as reference values.

COLOR DEVIATIONS

Colors can never be reproduced exactly the same as a sample. The degree of reproducibility depends on a large number of factors, such as surface structure, subsurface, coating process (wet/powder), angle of incidence of the light, brightness, differences in the two colors, etc. How much of a color deviation from a sample is allowable? And what must simply be tolerated? To answer these questions objectively, the maximum permissible color deviation, delta E (as per CIELab) per color range can be found in the chromaticity diagram.

RANGE	MAXIMUM PERMISSIBLE COLOR DEVIATION FROM SAMPLE
	ΔE (as per CIELab)
A, bright color*	≤ 0,8
A, medium bright color*	≤ 1,0
A, dark color*	≤ 1,4
B	≤ 2,0
C	≤ 2,8
D	≤ 3,6

* L-value



KEY

T_e = Solar transmittance
R_e = Solar reflectance
T_v = Light transmittance
R_v = Light reflectance
g-tot$_e$ = total energy transmittance for "closed" external solar shading with glazing
g-tot$_{45°}$ = g-total at a slat position of 45°

calculation in accordance with EN 13363-1-A1, Reference glazing C in accordance with EN 14501, g = 0.59, U = 1.20 [W/m²K]

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www.griessergroup.com