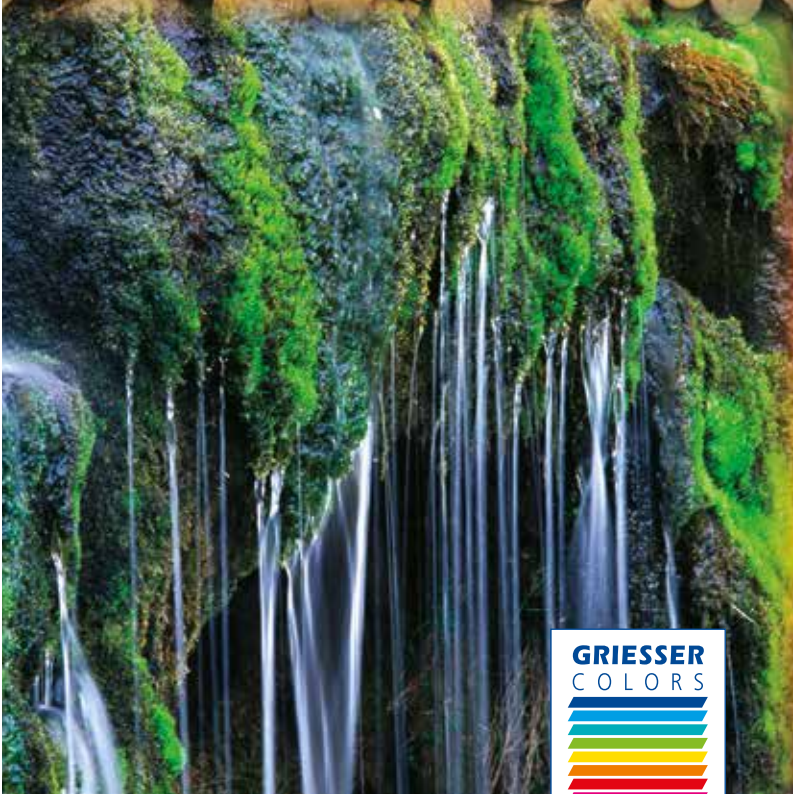


**Griesser Premium Colors.  
GriColors.**

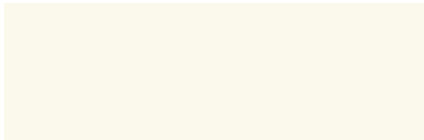




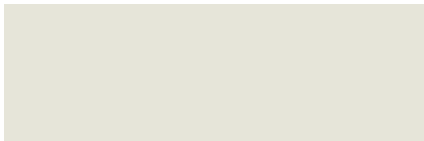
## GriColors



BiColor



VSR 901



VSR 904



VSR 130

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## 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.

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## 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.

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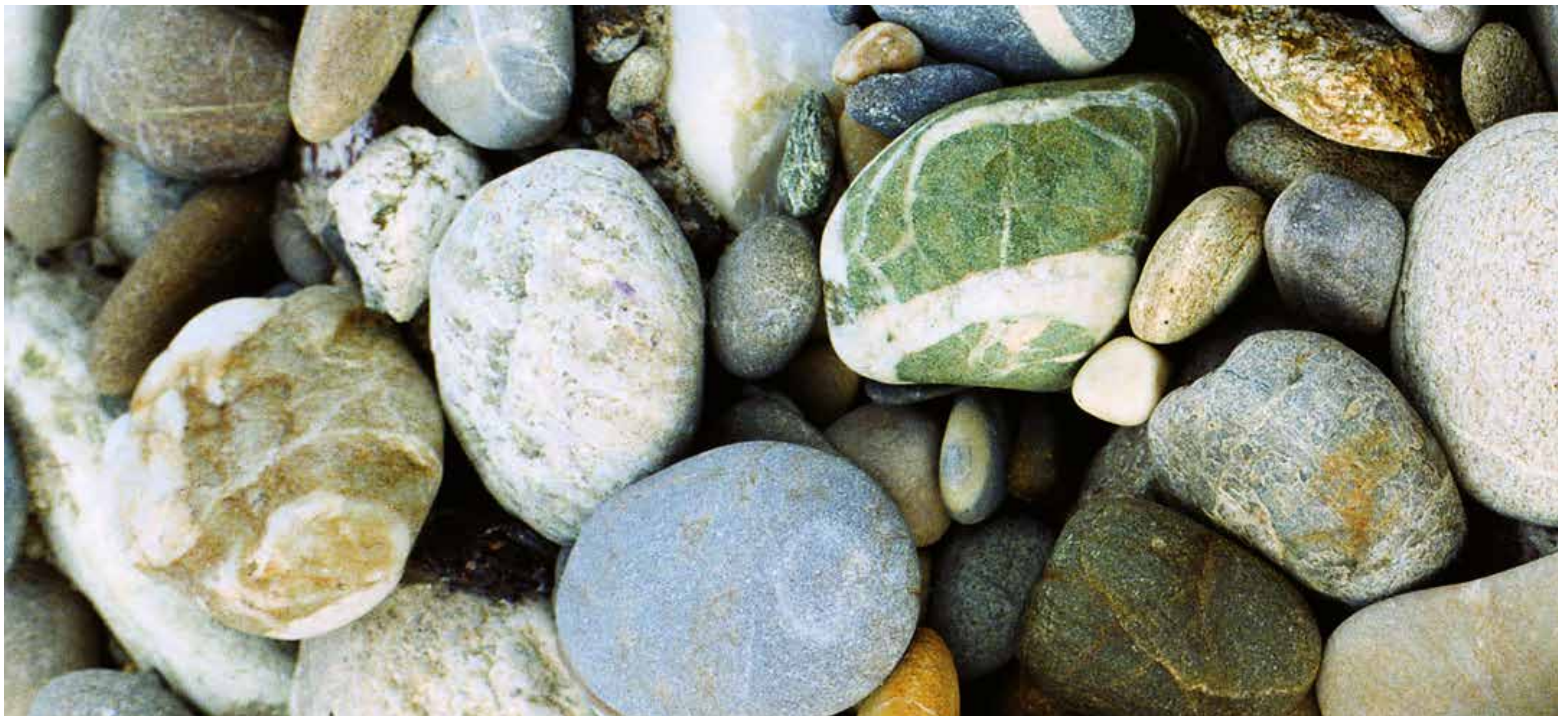
### Our colour recommendations for functional buildings

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.

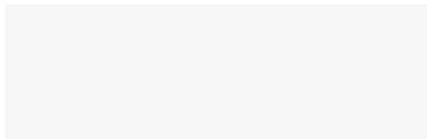
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### Our colour recommendations for residential buildings

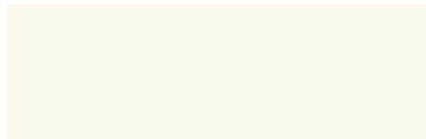
BiColor is also recommended for façade colouring of residential buildings. Outside colour: any. Interior colour: white (VSR 901), light grey (VSR 904) or medium grey (VSR 130).



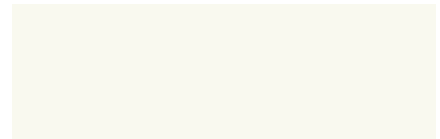
## GriColors: Glass & Stone



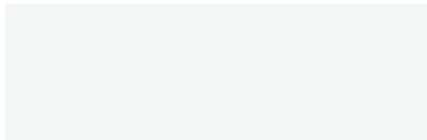
NCS S 0502-B/VSR 010



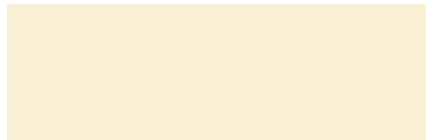
NCS S 0502-Y/VSR 901



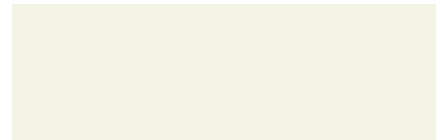
RAL 9010



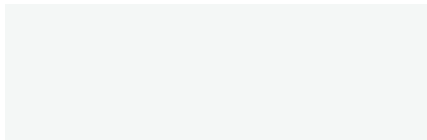
RAL 9003



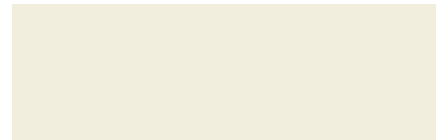
NCS S 1005-Y20R



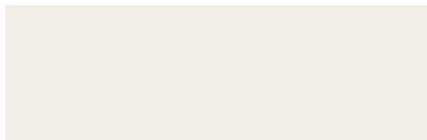
NCS S 1002-Y



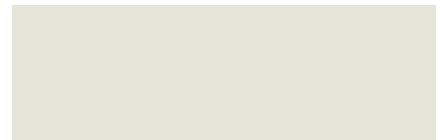
RAL 9016



NCS S 1502-Y



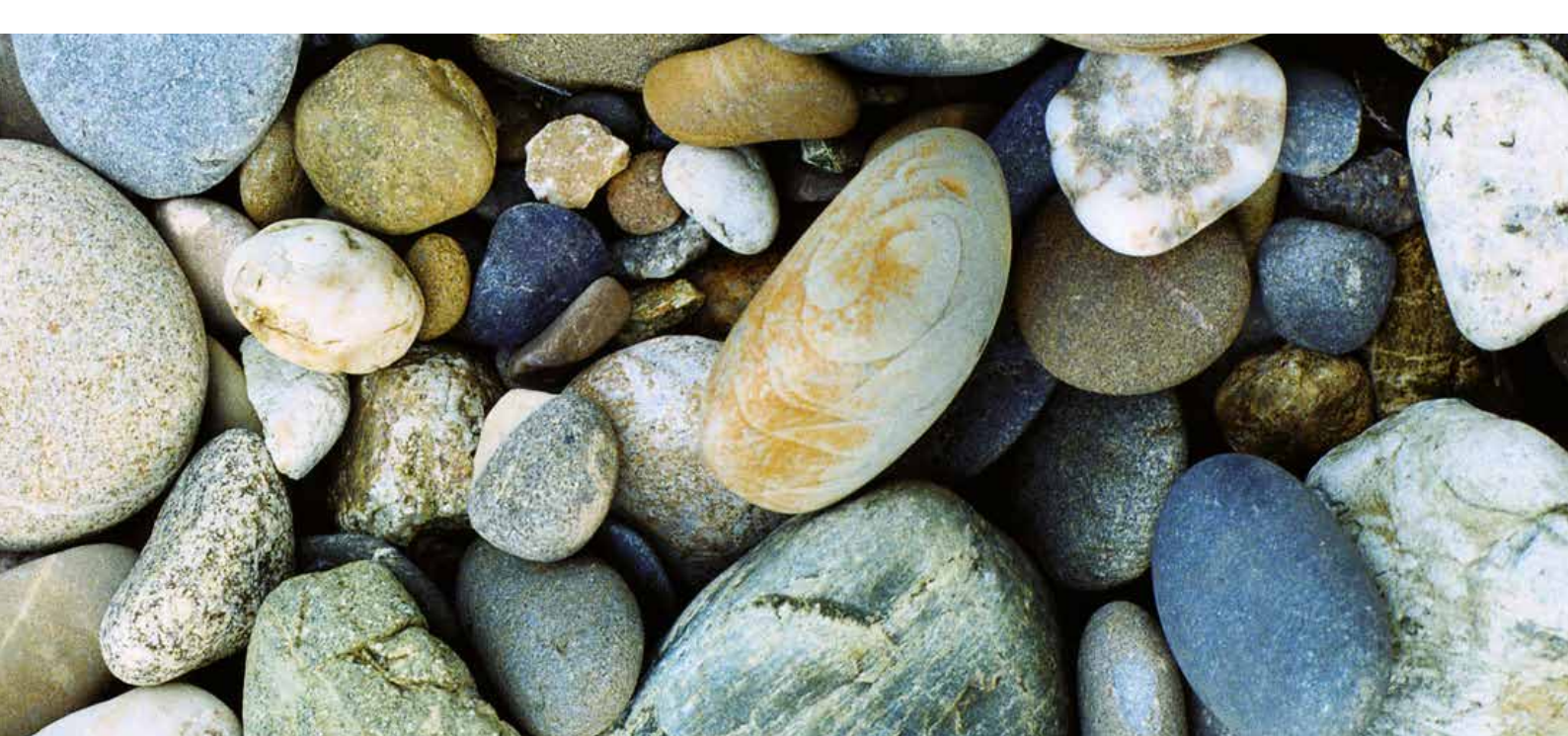
NCS S 1500-N



NCS S 1502-G/VSR 904



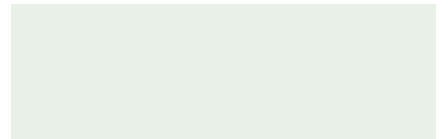
RAL 7035



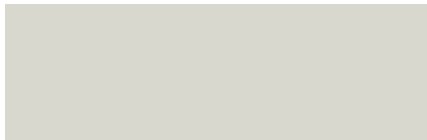
RAL 9006/VSR 140



NCS S 5500-N



NCS S 1005-B20G



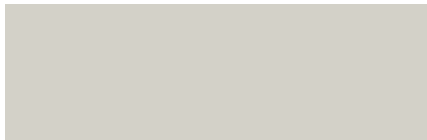
NCS S 2502-G



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



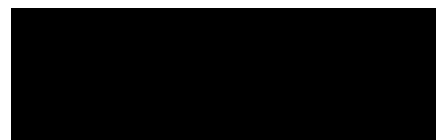
NCS S 8000-N



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



NCS S 6020-R20B



NCS S 2070-Y70R



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



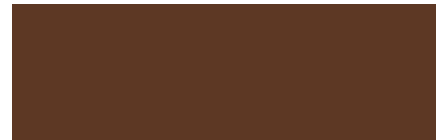
NCS S 8010-Y90R



NCS S 4010-Y50R/VSR 110



NCS S 6020-Y50R



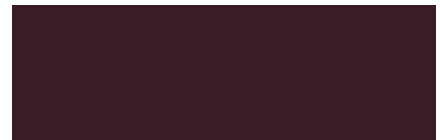
NCS S 8005-Y50R



NCS S 6010-Y50R



NCS S 7020-Y70R



NCS S 8502-R



NCS S 5010-G90Y



NCS S 6030-Y90R



VSR 780

## TECHNICAL VALUES FOR EXTERNAL VENETIAN BLINDS

### Curtain color

VSR 010/NCS S 0502-B
VSR 071/NCS S 8010-Y50R
VSR 110/NCS S 4010-Y50R
VSR 120/NCS S 3560-Y80R
VSR 130/NSC S 3000-N
VSR 140/RAL 9006
VSR 220/NCS S 7020-B90G
VSR 240/NSC S 2010-Y30R
VSR 330/NCS S 3560-R
VSR 440/NCS S 5040-B
VSR 720/NCS S 1080-Y20R
VSR 780
VSR 901/NCS S 0502-Y
VSR 903/NCS S 4030-R90B
VSR 904/NCS S 1502-G
VSR 906/NCS S 4350-R74B
VSR 907
VSR 908/NCS S 3040-B40G
VSR 909/NCS S 2020-G90Y

## CONDITIONS/INFORMATION

External solar shading is not rear-ventilated.

Use  $g\text{-tot}_{45^\circ}$  for slats which don't close.

The results should be regarded as reference values.

## CURTAIN TIGHTLY CLOSED

$T_e$	$R_e$	$T_v$	$R_v$
0.00	0.73	0.00	0.83
0.00	0.09	0.00	0.07
0.00	0.31	0.00	0.31
0.00	0.19	0.00	0.11
0.00	0.39	0.00	0.46
0.00	0.55	0.00	0.54
0.00	0.25	0.00	0.07
0.00	0.59	0.00	0.57
0.00	0.36	0.00	0.08
0.00	0.26	0.00	0.10
0.00	0.54	0.00	0.48
0.00	0.23	0.00	0.20
0.00	0.75	0.00	0.84
0.00	0.37	0.00	0.21
0.00	0.55	0.00	0.63
0.00	0.32	0.00	0.07
0.00	0.34	0.00	0.32
0.00	0.30	0.00	0.26
0.00	0.51	0.00	0.54

## GLASS + CURTAIN OUTSIDE

$g\text{-tot}_e$	$g\text{-tot}_{45^\circ}$
0.02	0.10
0.08	0.09
0.06	0.09
0.07	0.09
0.05	0.10
0.04	0.10
0.07	0.09
0.04	0.10
0.06	0.10
0.07	0.09
0.04	0.10
0.07	0.09
0.06	0.10
0.04	0.09
0.06	0.09
0.06	0.09
0.06	0.09
0.04	0.10

## 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, sub-surface, 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 CIE Lab) per color range can be found in the chromaticity diagram.

## RANGE

A, bright color*
A, medium bright color*
A, dark color*
B
C
D

\* L-value

## MAXIMUM PERMISSIBLE COLOR DEVIATION FROM SAMPLE

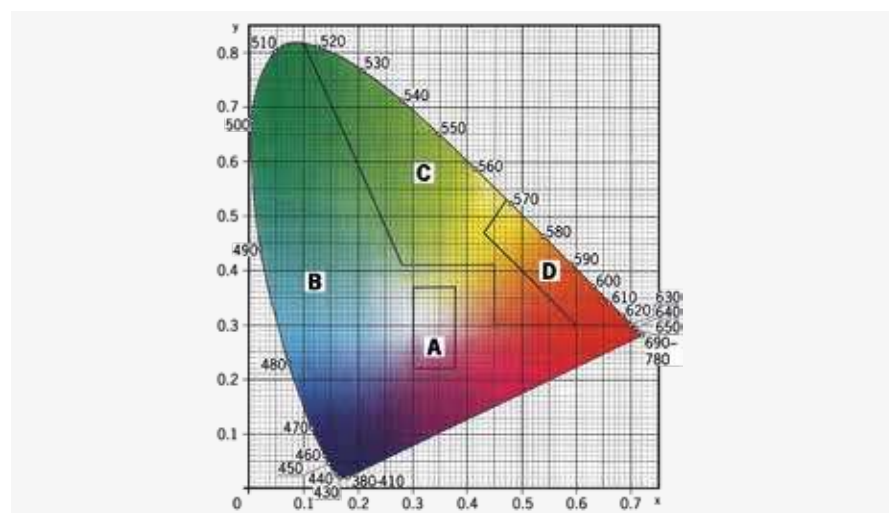
### $\Delta E$ (as per CIE Lab)

$\leq 0,8$
$\leq 1,0$
$\leq 1,4$
$\leq 2,0$
$\leq 2,8$
$\leq 3,6$

## KEY

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

calculation in accordance with EN 13363-1-A1, Reference glazing C in accordance with EN 14501,  $g = 0.59$ ,  $U = 1.20$  [W/m<sup>2</sup>K]





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