

PRODUCT OVERVIEW



RAL – COLOURS MAKE THE DIFFERENCE



TQC B.V.
Molenbaan 19
2908 LL Capelle a/d IJssel
The Netherlands

+31 10 7900100
+31 10 7900129
@ info@tqc.eu
www.tqc.eu

CONTENTS



The world's leading collection of industrial colours

■ RAL 840-HR	Page 6
■ RAL 841-GL	Page 6
■ RAL K7	Page 7
■ RAL K5	Page 8
■ RAL K1	Page 9
■ RAL F5	Page 10
■ RAL K6	Page 11
■ RAL CLASSIC SINGLE SHEET	Page 11



The innovative EFFECT Colours

■ RAL E1	Page 12
■ RAL E2	Page 13
■ RAL E3	Page 14
■ RAL E4	Page 15
■ RAL EFFECT SINGLE SHEET	Page 15



The CIELab-based colour system

■ RAL D2	Page 16
■ COLOURS OF HEALTH & CARE	Page 16
The RAL colour fan deck for designers in the health & care area	
■ RAL D4	Page 17
■ RAL DESIGN System A6 SINGLE SHEETS	Page 17
■ RAL DESIGN System A4 SINGLE SHEETS	Page 17
■ RAL D8	Page 18



The RAL colours for computers

- RAL DIGITAL 5.0 Page 19
- Mac USB-Stick Page 19
- Win USB-Stick Page 19



The app with all RAL colours

- RAL iCOLOURS Page 20
- For iOS devices Page 20
- For Android devices Page 21



The RAL colour standard for plastics

- RAL P1 Page 22
- RAL PLASTICS SINGLE PLATES Page 22
- RAL P2 Page 23
- RAL P1 + P2 Page 23



The trend colours of tomorrow
for design and architecture

■ RAL COLOUR FEELING 2012+ Page 24

■ THE COLOUR DICTIONARY Page 26

The reference work for interior design,
advertising, design and teaching

■ COLOURS OF HEALTH & CARE Page 28

The standard reference for designers
in the health & care area

■ COLOUR MASTER Page 30

The inspiring, interactive design book with
endless possibilities for creative people

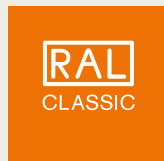
■ COLOURS FOR HOTELS Page 32

The planning manual for designers in the hotel sector



■ RAL COLOURS WORLDWIDE Page 34

Distribution partners abroad



RAL 840-HR

Primary standards with
213 RAL CLASSIC colours

- Semi matt
- A5-sized 14.8 x 21.0 cm
- Colour illustration
A6-sized 10.5 x 14.8 cm
- Binding colour samples
for colour matching
and quality control
- Including XYZ-values, colour
distance from the original
standard and reflectance curve
- Single cards available

RAL 841-GL

Primary standards with
196 RAL CLASSIC colours

- High gloss
- A5-sized 14.8 x 21.0 cm
- Colour illustration
A6-sized 10.5 x 14.8 cm
- Binding colour samples
for colour matching
and quality control
- Including XYZ-values, colour
distance from the original
standard and reflectance curve
- Single cards available

RAL CLASSIC

The world's leading industrial colour collection

The RAL CLASSIC colour collection has been essential for the precise communication of colours for over 80 years. Therefore, 'RAL 1037 Sun Yellow' is the exact same colour everywhere in the world.

RAL 840-HR



RAL 841-GL





RAL K7



RAL K7
INDIVIDUAL



© allmilmö, Zeiler Möbelwerk GmbH & Co. KG, Zeil am Main

A llmilmö, leading premium brand producer of high-end kitchen interiors



© ArcelorMittal

A steel sculpture by world famous sculptor Anish Kapoor and star architect Cecil Balmond is London's Olympic landmark. The ArcelorMittal Orbit glows in RAL 3003 Ruby Red.



© Thonet GmbH

T honet produces the S 43 cantilever chair by Mart Stam in many RAL colours.

RAL K7

Colour fan deck with
213 RAL CLASSIC colours

- Fan deck size
5.0 x 15.0 cm
- Colour illustration
2.0 x 5.0 cm
- Five colours per page
- Gloss

RAL K7 INDIVIDUAL

Personalised company imprint
available

For further information:
RAL-individual@RAL-gGmbH.com
Tel.: + 49 (0) 2241 – 25516-62

RAL K5

Colour fan deck with
213 RAL CLASSIC colours

- U-shaped protective cover
- Full-page colour illustration
5.0 x 15.0 cm
- Well-suited for colour
combinations and
colour comparisons
- Semi matt or gloss

RAL K5 INDIVIDUAL

Personalised company imprint
available

For further information:
RAL-individual@RAL-gGmbH.com
Tel.: + 49 (0) 2241 – 25516-62



RAL K1

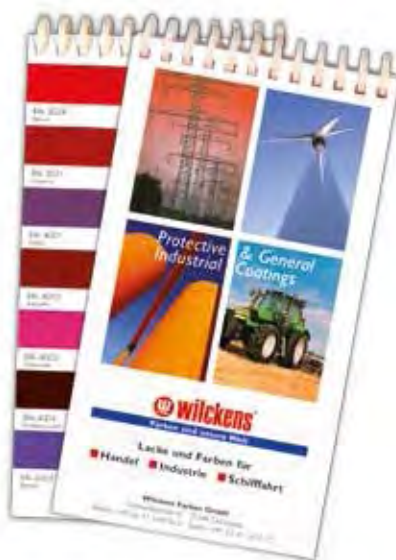


RAL K1

Booklet with
213 RAL CLASSIC colours*

- Booklet size
10.5 x 20.0 cm
- Colour illustration
5.2 x 1.5 cm
- 7 colours per page
14 colours at a glance
- Gloss

RAL K1 INDIVIDUAL



RAL K1 INDIVIDUAL

Personalised company imprint
available

For further information:
RAL-individual@RAL-gGmbH.com
Tel.: + 49 (0) 2241 – 25516-62

RAL F5

Information card with
213 RAL CLASSIC colours*

- Overall size 47.5 x 29.7 cm
folded 21.5 x 29.7 cm
- Colour illustration
2.2 x 1.2 cm
- All colours at a glance
- Gloss

* Without RAL 3028, RAL 6037 and
RAL 6038

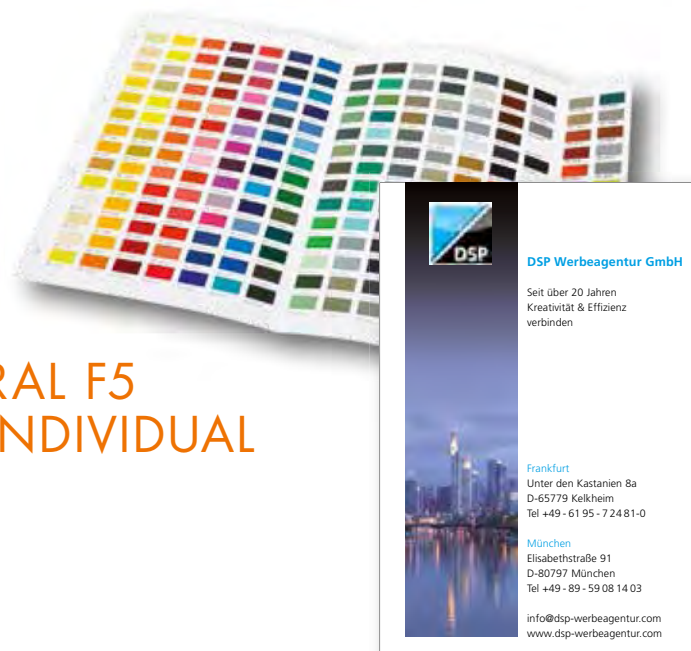
RAL F5 INDIVIDUAL

Personalised company imprint
available

For further information:
RAL-individual@RAL-gmbH.com
Tel.: + 49 (0) 2241 – 25516-62



RAL F5



RAL F5
INDIVIDUAL

RAL K6



RAL K6

Ring binder with all
213 RAL CLASSIC colours

- A4-sized 21.0 x 29.7 cm
- Semi matt
- All 213 RAL CLASSIC colours available as single sheets



RAL E1

Primary standards of all 490 RAL EFFECT colours in a protective case

- 420 solid colours and 70 metallic colours
- Based on waterborne paint system
- A6-sized 10.5 x 14.8 cm
- Colour illustration 10.5 x 13.8 cm
- Binding colour samples for colour matching and quality control
- Solid colours semi matt
- Metallic colours high gloss

RAL EFFECT

The innovative EFFECT Colours

As a particular highlight, the RAL EFFECT collection contains 70 metallic colours that harmonise with the remaining 420 solid colours.

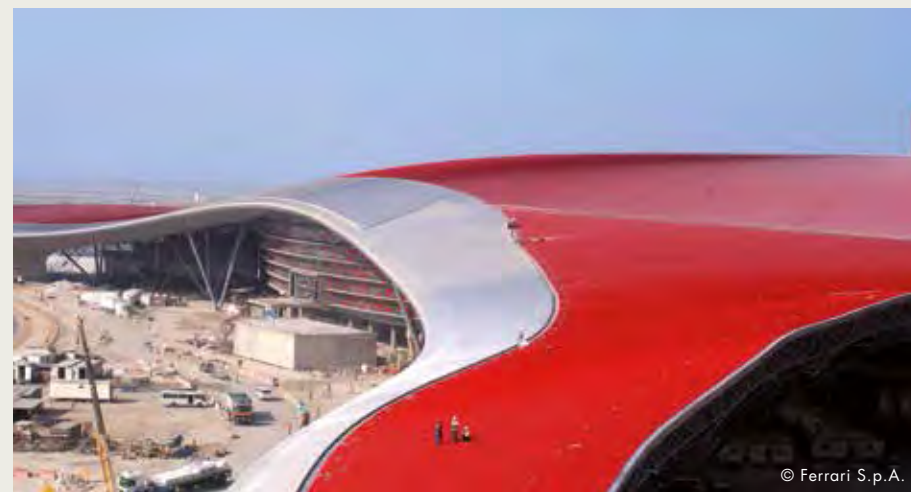
RAL E1



RAL E2



RAL E2
INDIVIDUAL



Ferrari World Abu Dhabi – One of the largest metal roofs in the world was coated in RAL 9006.



Müller Möbelfabrikanten Mobile Line – Handcrafted designer furniture made of metal, available in all RAL colours.



Miele – The geometry of the designer range hoods in the DA 7000 line is orientated on the ellipse. As a purpose-built variant, the top and bottom surfaces can be powder-coated in any RAL colour.

RAL E2

Multifunctional double colour fan deck with 490 RAL EFFECT colours

- 420 solid colours and 70 metallic colours
- Solid colours are based on waterborne paint systems, metallic colours are based on acrylic paints
- Fan deck size 5.0 x 21.0 cm
- Solid colours 5.0 x 2.5 cm, metallic colours full page
- Solid and metallic colours can be viewed jointly or separately
- Solid colours semi matt
- Metallic colours high gloss

RAL E3

Colour fan deck with all 490 RAL EFFECT colours

- 420 solid colours and 70 metallic colours
- Each page displays the metallic colour that harmonises with the six solid colours
- Solid colours based on waterborne paint systems, metallic colours based on acrylic paint systems
- Colour fan deck format 5.0 x 21.0 cm
- Solid colours 5.0 x 2.0 cm, metallic colours 5.0 x 3.8 cm
- Solid colours semi matt
- Metallic colours high gloss

RAL E2 INDIVIDUAL

Personalised company imprint available

For further information:

RAL-individual@RAL-gGmbH.com

Tel.: + 49 (0) 2241 – 25516-62

RAL E3 INDIVIDUAL

Personalised company imprint available

For further information:

RAL-individual@RAL-gGmbH.com

Tel.: + 49 (0) 2241 – 25516-62



RAL E3



RAL E3
INDIVIDUAL



RAL E4



RAL E4
INDIVIDUAL

RAL EFFECT
SINGLE SHEETS



RAL E4

Colour fan deck with
70 RAL EFFECT metallic
colours

- Fan deck size
5.0 x 13.0 cm
- High gloss

RAL E4 INDIVIDUAL

Personalised company imprint
available

For further information:

RAL-individual@RAL-gGmbH.com

Tel.: + 49 (0) 2241 – 25516-62

RAL EFFECT SINGLE SHEET

Colour samples of all
490 RAL EFFECT colours

- 420 solid colours and
70 metallic colours
- Solid colours semi matt,
metallic colours high-gloss
- A6-sized 10.5 x 14.8 cm

RAL D2

Fan deck with 1,625 RAL DESIGN colours in protective box

- Fan deck format 5.0 x 29.0 cm
- Colour display 5.0 x 2.5 cm
- Semi matt

RAL D2 INDIVIDUAL

Personalised company imprint available

For further information:

RAL-individual@RAL-gmbH.com

Tel.: + 49 (0) 2241 – 25516-62

COLOURS OF HEALTH & CARE

The RAL colour fan deck for designers in the health & care area

- Fan deck size 8.7 x 21.4 cm
- 120 RAL DESIGN colours related to health and care
- Each colour with four removable colour chips
- 56 pages

RAL DESIGN SYSTEM

The CIE Lab-based colour system

The RAL DESIGN system provides 1,625 colours arranged according to hue (H), lightness (L) and chroma (C).

RAL D2

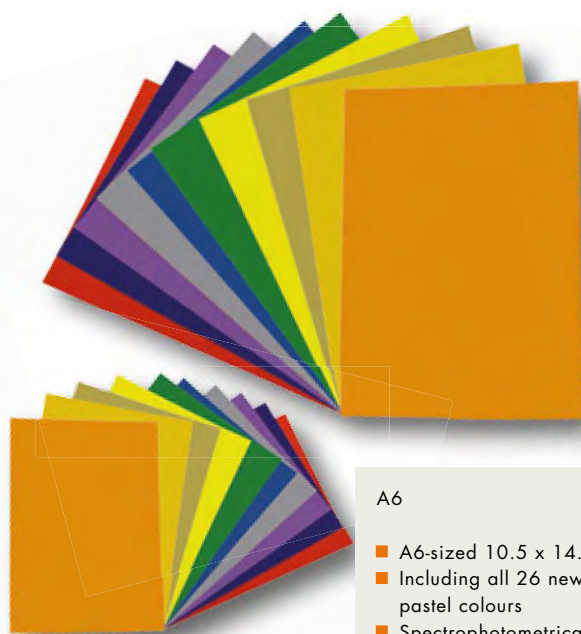


RAL D2 INDIVIDUAL



COLOURS OF HEALTH & CARE

RAL D4



RAL DESIGN SINGLE SHEETS

A6

- A6-sized 10.5 x 14.8 cm*
- Including all 26 new pastel colours
- Spectrophotometrically documented upon request
- Available as complete set in a box

A4

- A4-sized 21.0 x 29.7 cm*
- Does not include the 26 new pastel colours
- Spectrophotometrically documented upon request
- Available as complete set in ring binders

* The 89 dark shades which are no longer included in the revised RAL DESIGN system are available as A4- and A6-sized single sheets. For a list of these shades please call at: +49(0)2241-25516-30.



© NBK Keramik GmbH

B K Keramik – Central Saint Giles is the urban highlight in London's West End. For the facade designed by Renzo Piano, 140,000 ceramic elements were processed in six different colours: RAL 070 70 80, RAL 050 50 70, RAL 050 50 78, RAL 000 75 00, RAL 110 60 50 and RAL 7035 Light Grey



© aleksey kashin – Fotolia.com

The striking architecture of the hotel lounge is as calming as it is stimulating. For harmonious, provocative and surprising colour effects as required, RAL has the ideal colour solution: RAL DESIGN provides 1,625 colours and one million options.

RAL D4

Colour atlas containing
all 1,625 RAL DESIGN colours

- Atlas size 31.5 x 28.0 cm
- Colour size 1.7 x 1.7 cm
- Semi matt

RAL DESIGN SINGLE SHEETS

Colour samples of
RAL DESIGN colours

RAL D8

Box with 8 fan decks

- Box format
28.0 x 11.5 x 6.5 cm
- CIElab colour circle
in inside cover
- 1,625 colours
- 230 colours per fan deck
- 1 colour each page
- Fan deck format
10.0 x 3.3 x 5.0 cm
- Clearly arranged system
- Semi matt

RAL D8



RAL DIGITAL

The RAL Colours for the computer

Software for designers, architects, interior designers and everyone else who works creatively with colour

- Lets you navigate your way around the entire spectrum and gamut of RAL colour space
- Quick location of the perfect shade based on any and every criterion for locating the precise match or selecting beautiful harmonizing colours to almost any specification



- Integration of all 2,328 RAL colours into popular Graphics and CAD programs with simple import and export file formats

RAL colour pallets can be imported into the following programs.

RGB + CMYK

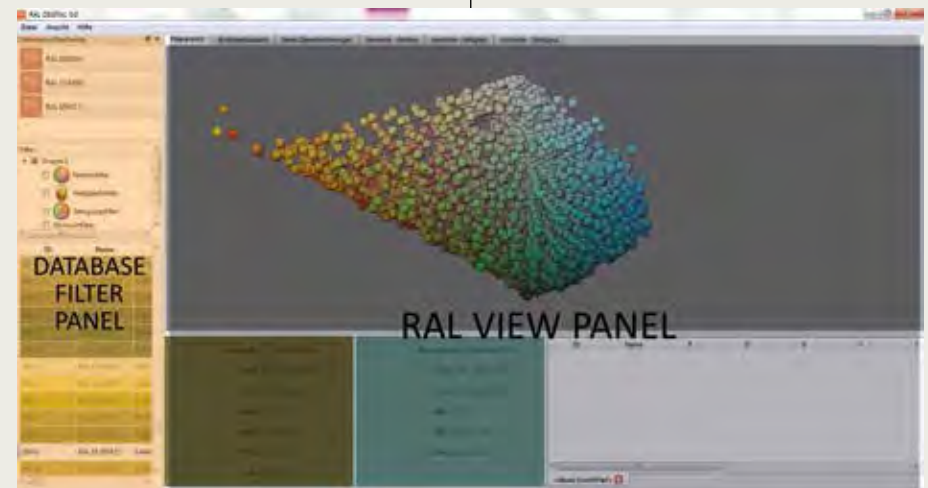
Adobe Illustrator
Adobe Photoshop
Adobe PageMaker
Adobe FrameMaker
Adobe InDesign
B&E Ragtime
CorelDRAW, Corel Photo-Paint etc.
Fractal Design Painter
KeyShot
Macromedia FreeHand
Micrografx/IGrafx Designer
Micrografx/IGrafx Picture Publisher
QuarkXPress

RGB

ARC+
ARRIBA CA3D (ehem. RIBCON)0
ASCAD Renderlab
Autodesk AutoCAD (3D)
Autodesk AutoCAD, M-Color (2D)
Bentley MicroStation (95/SE/TriForma)
Gamma-RAY
Graphisoft ArchiCAD
Kinetix 3D STUDIO (VIZ/MAX)
mb ArCon, ArCon+
Nemetschek ALLPLAN, ALLPLOT
SolidWorks, PhotoWorks
Softtech SPIRIT/SPIRIT vis
Softtech SPIRIT/FrescoMovie
Vectorworks



Capture Colours from own pictures.





RAL DIGITAL 5.0

Software with all 2,328 RAL Colours for Win or Mac

- Contains all RAL EFFECT colours, RAL CLASSIC colours and RAL DESIGN colours for graphics and CAD programs
- Colour values include RGB, HEX, CMYK, LAB, HLC, XYZ colorimetric data
- Inspirational colour harmony recommendations based on monochromatic, adjacent, analogous and complimentary colour combinations
- Find the perfect colour set based on simple text descriptions of your colour needs.
- Colour search: Find RAL colours based on matches to current commonly used colour collections or compared to colorimetric values
- Generate and store or export your own colour data for integration into most major design and CAD programs, or simple text format for document or spreadsheet analysis

RAL iCOLOURS

For iOS devices

Contains

- All 2,328 RAL colours
- As well as the corresponding LAB, sRGB, CMYK and LRV values

RAL iCOLOURS

The app with all RAL colours

Should the building facade be Lemon Yellow or Sun Yellow? Strawberry Red in the bedroom – RAL iCOLOURS will show you! With the RAL app for Apple and Android devices, you can quickly and easily colour your photos any RAL colour.



See everything in a new colour with RAL iCOLOURS in three simple steps:

- Photograph an object
- Selection of the colour range RAL CLASSIC, RAL DESIGN System or RAL EFFECT
- Transfer the selected colour shades into the photo



RAL iCOLOURS

For Android devices

Contains

- All 2,328 RAL colours
- As well as the corresponding LAB, sRGB, CMYK and LRV values

RAL P1

100 plastic colour plates in a protective case

- Binding colour sample for plastics in RAL CLASSIC colours
- Format 10.5 x 14.8 x 0.3 cm
- The polypropylene material assures a variety of applications
- Three levels of thickness: 0.3 cm, 0.2 cm and 0.1 cm
- Master batch code designation
- Three different surface textures: polished high gloss, VDI 24 and VDI 42
- Includes absolute values and colour distance from original plastic sample
- With reflectance curve
- Protective sleeve for each plastic plate

RAL PLASTICS

RAL P1: THE 100 MOST POPULAR RAL CLASSIC COLOURS

The colour standard for plastics

For RAL PLASTICS, polypropylen was chosen, which assures diversified applicability. RAL PLASTICS guarantees best possible translation of RAL paint colour shade into an identical shade for plastics. Thus, using RAL PLASTICS, manufacturer and plastics processors can save time, costs and raw material.



RAL P2: CREATIVE COLOUR DESIGN WITH 200 RAL DESIGN COLOURS FOR INNOVATIVE PLASTICS PRODUCTS



RAL P2

200 plastic colour plates in
two protective cases

- Binding colour sample for plastics in RAL DESIGN colours
- 160 opaque plates
- 40 transparent plates
- Format 10.5 x 14.8 x 0.3 cm
- The polypropylene material assures a variety of applications
- Three levels of thickness: 0.3 cm, 0.2 cm and 0.1 cm
- Master batch code designation
- Three different surface textures: polished high gloss, VDI 24 and VDI 42
- Includes absolute values and colour distance from original plastic sample
- With reflectance curve
- Protective sleeve for each Plastic plate

RAL P1 + P2 SET

In the P1 + P2 set, all 300 RAL PLASTICS colours in three protective cases are available at a special price

RAL P1 + P2 SINGLE PLATES

All 300 RAL PLASTICS colours are available as single plates

RAL COLOUR FEELING 2012+

- Four major colour trends: bare, retro modern, soft industrial and re-make
- Colour fan deck with all 32 trend colours (3.5 x 10.5 cm)
- Eight coated, detachable colour chips per colour
- Comprehensive background information
- Inspirational images
- Ideas for colour combinations

RAL COLOUR FEELING 2012+

RAL COLOUR FEELING shows which trend colours will specify product design, architecture and industrial design in the future. Supported by key social, cultural and lifestyle trends, COLOUR FEELING 2012+ presents four colour palettes containing eight trend-setting colours each. Detachable colour chips and a colour fan deck containing all trend colours make COLOUR FEELING 2012+ an ideal creative tool.





© Knot by Apollo Architects & Associates



© Photography by Victoria Ling, Styling by Franklin Till



AUTHOR PROFESSOR AXEL VENN

Axel Venn is held in international esteem as a colour, trend and aesthetics consultant. Within years of practice, he established the foundation for THE COLOUR DICTIONARY, in which only RAL colours are used. Professor Venn is also the author of COLOURS OF HEALTH & CARE, COLOUR MASTER and COLOURS FOR HOTELS.

THE COLOUR DICTIONARY

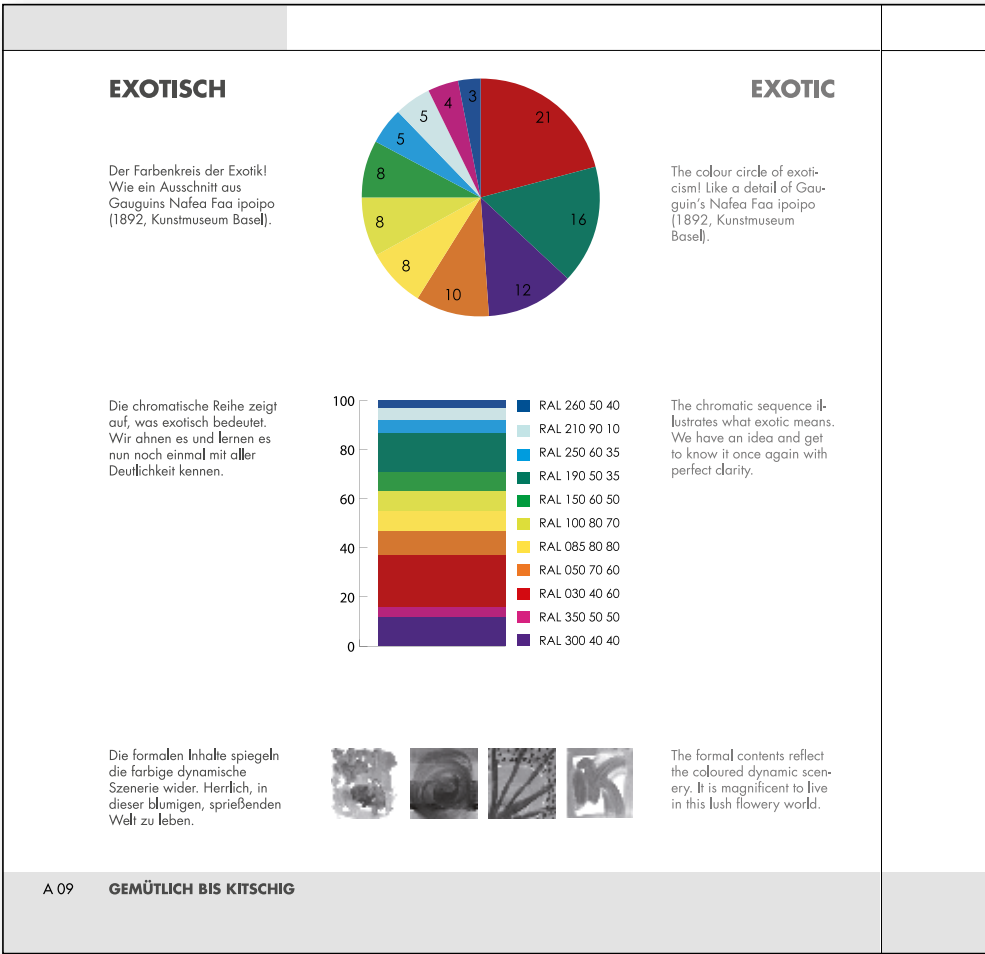
The reference work for interior design, advertising, design and teaching
360 adjectives and their translation into colour compositions

Envy is green, love is red... We all know the typical colour associations, but can a term really be expressed by one colour alone?

This volume adds a new dimension to the familiar rules of colour theory. Over 60 subjects produced mood boards for 360 adjectives for this purpose and then the author assigned them to their corresponding RAL DESIGN system colours.

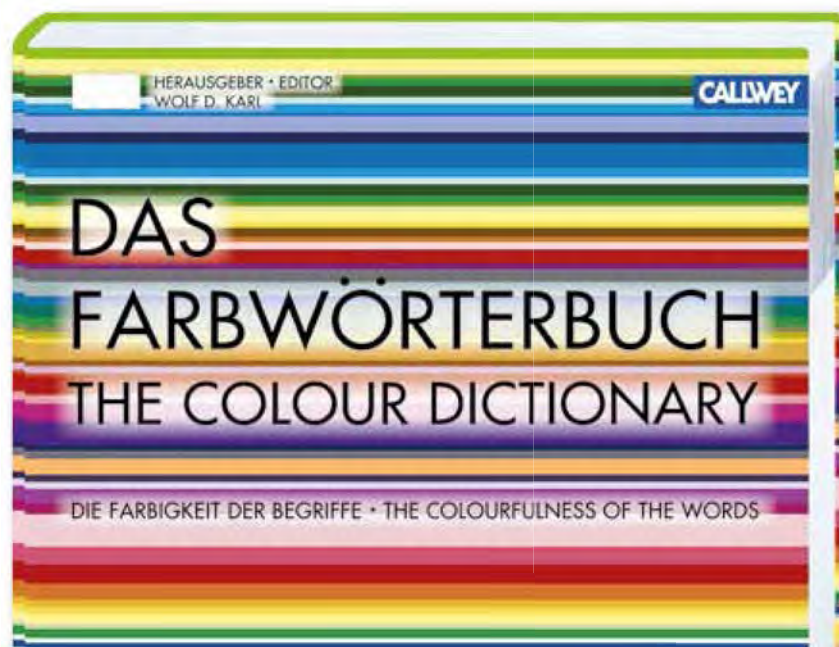
42 expressive collages for selected concepts clarify the effects of the colours when they are used in practice.

The book that provides a unique, exciting overview of the fascinating world of colour.



A 09

GEMÜTLICH BIS KITSCHIG



THE COLOUR DICTIONARY

- 360 adjectives expressed in colour compositions
- Displayed in RAL DESIGN system colours
- 864 pages,
- Approx. 20,000 figures
- Format: 24 x 26 cm, hardcover
- Bilingual: German/English
- Large poster
- Further information: www.RAL-Colours.com

EXOTISCH

EXOTIC



Erst die Summe der Eigenschaften zaubert ein exotisches Bild, als ob sich die weit voneinander lebenden Testpersonen abgesprochen hätten, solch ein Fest der Farben zu feiern.

Only the sum of characteristics conjures an exotic image, as if the test subjects, who are living far apart, agreed to celebrate such a festival of colours.

COLOURS OF HEALTH & CARE

The standard reference for designers in the health care area
This book is the result of an analytical, scientific study on the effects of colour. Subjects illustrated 120 thematically relevant adjectives in colour which were translated into the RAL DESIGN system. In conjunction with the practical COLOURS OF HEALTH & CARE colour fan deck, it is an essential planning tool for designing medical practices, hospitals and nursing homes.





COLOURS OF HEALTH & CARE

Book with fan deck

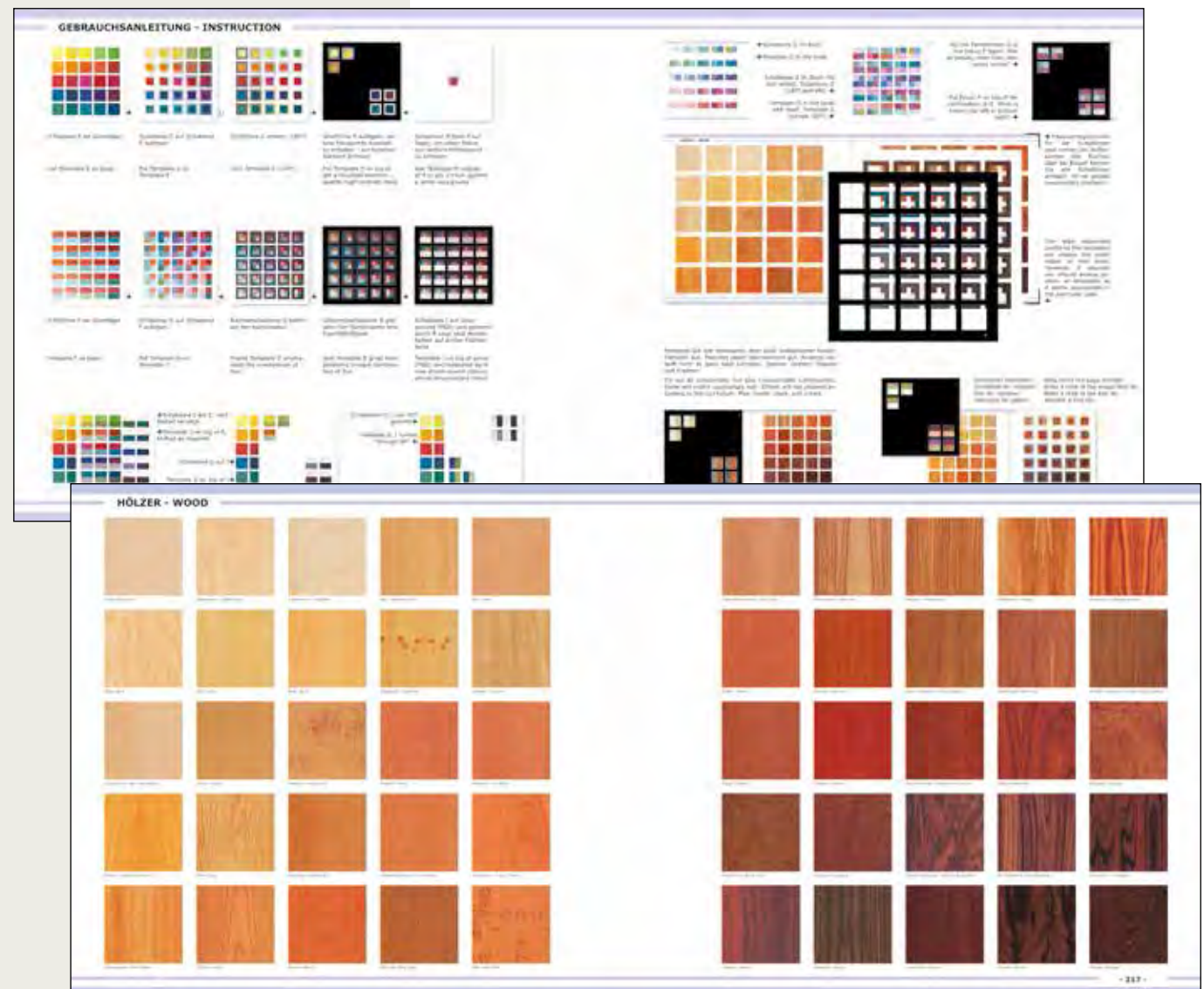
- 120 current terms from the health care sector
- Encoded in 340 RAL DESIGN system colours
- 384 pages,
- Over 7,000 figures
- Format: 24 x 26 cm, hardcover
- Bilingual: German/English
- Numerous examples of colour ways in spaces

COLOUR MASTER

The inspiring, interactive design book with endless possibilities for creative people

On 328 pages, the book provides inspiration with different shapes and patterns for designers, architects, artists and other creative people. It is an experimenting tool, filled with endless design opportunities. COLOUR MASTER provides sensational colour and material images in front of graphical, scenic and art historical backgrounds.

At the same time it shows colours and shapes of the past and the future, such as newest wallpaper art collections from contemporary designers, historical ornaments and decors, colours from fashion, sports, electronics, technics, music, but also colours of health and care, fabrics, woods, stones and surface products from interior construction and from surface design also for the luxurious sector.





COLOUR MASTER

Book with
RAL EFFECT E3 fan deck

- 328 pages of colourfulness in shapes, patterns and pictures
- 12 colour templates
- encoded in RAL EFFECT colours
- Format: 32.6 x 29.6 cm, hardcover
- Bilingual: German/English
- Every single page of the book represents an individual experimenting field for endless possibilities



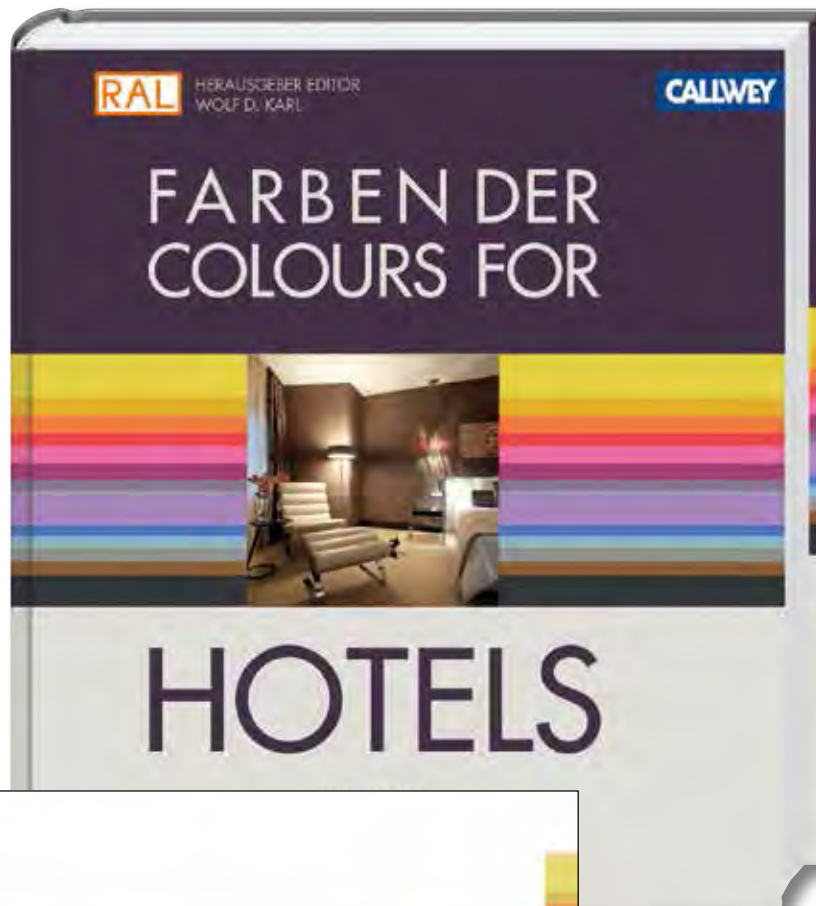
COLOURS FOR HOTELS

The planning manual for designers in the hotel sector

Hotels want to be places of comfort and relaxation for their guests. Sincere hospitality and first class service are a part of this. An appealing hotel ambience in the right professional colour combination provides a warm welcome and a comforting atmosphere. For these purposes, RAL has become the publisher of the book COLOURS FOR HOTELS.

The team of authors Corinna Kretschmar-Joehnk, interior designer (Jol Design), and Axel Venn, colour scientist, have written this unique and scientifically funded reference book for colour design and valuable hotel ambience. The colours from the RAL DESIGN System serve as a creative basis.





COLOURS FOR HOTELS

- Adjectives with hotel reference, expressed in colour combinations
- Coded in the RAL DESIGN system
- 416 pages
- Format: 24 x 26 cm, hardcover
- Bilingual: German and English
- With practically relevant design examples in hotels
- Template for colour combinations



RAL COLOURS WORLDWIDE

For the addresses of all RAL colour sales offices worldwide, visit: www.RAL-colours.com (see sales offices worldwide)



- | | | | |
|------------------|-----------------|---------------|------------------------|
| ■ Argentina | ■ Finland | ■ Latvia | ■ Saudi Arabia |
| ■ Australia | ■ France | ■ Lebanon | ■ Slovakia |
| ■ Austria | ■ Germany | ■ Lithuania | ■ South Africa |
| ■ Belgium | ■ Great Britain | ■ Luxembourg | ■ Spain |
| ■ Brazil | ■ Greece | ■ Malaysia | ■ Sweden |
| ■ Canada | ■ Hong Kong | ■ Mexico | ■ Switzerland |
| ■ China | ■ Hungary | ■ Namibia | ■ Taiwan |
| ■ Columbia | ■ Iceland | ■ Netherlands | ■ Turkey |
| ■ Czech Republic | ■ India | ■ Norway | ■ Ukraine |
| ■ Denmark | ■ Ireland | ■ Poland | ■ United Arab Emirates |
| ■ Estonia | ■ Italy | ■ Portugal | ■ USA |
| ■ Faro Islands | ■ Japan | ■ Russia | |



TQC B.V.
Molenbaan 19
2908 LL Capelle a/d IJssel
The Netherlands

+31 10 7900100
+31 10 7900129
@ info@tqc.eu
www.tqc.eu



gGmbH

Siegburger Straße 39
53757 Sankt Augustin, Germany

Phone: +49 (0) 22 41-2 55 16-60
Fax: +49 (0) 22 41-2 55 16-16
E-Mail: RAL-Colours@RAL-gGmbH.com
Internet: www.RAL-colours.com



January 2014