RAL
COLOURS

WWW.RAL-SHOP.COM

PRODUCT OVERVIEW

RAL COLOURS –
Innovation and reliability. Worldwide.

TQC

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

+31(0)10 - 79 00 100
+31(0)10 - 79 00 129
@ info@tqc.eu
www.tqc.eu

MEMBERSHIPS

DEUTSCHES FARBENZENTRUM

Rat für Formgebung
German Design Council

CMG
The Premier International Association for Color Design Professionals

Deutsches Mode-Institut
DMI
WOMEN MEN INTERIOR

China National Coatings Industry Association
NCIA

Deutsche Farbwissenschaftliche Gesellschaft
dfwg

AWARDS

German Design Award
WINNER 2015

GERMAN DESIGN AWARD WINNER 2016

GERMAN DESIGN AWARD WINNER 2017

CONTENT

RAL CLASSIC

The world's leading collection of industrial colours

- RAL 840-HR 07
- RAL 841-GL 07
- RAL K1 / RAL K1 INDIVIDUAL 08
- RAL K5 / RAL K5 INDIVIDUAL 09
- RAL K6 10
- RAL K7 / RAL K7 INDIVIDUAL 10-11
- RAL F9 11

RAL DESIGN SYSTEM

The CIELab-based colour system

- RAL D2 / RAL D2 INDIVIDUAL 13
- RAL D4 14
- RAL DESIGN SYSTEM SINLGE SHEET 14
- RAL D6 15
- RAL D8 15

RAL EFFECT

The innovative RAL EFFECT Colours

- RAL E1 17
- RAL E3 & E4 18
- RAL EFFECT SINGLE SHEET 19

RAL PLASTICS

The RAL colour standard for plastics

- RAL P1 21
- RAL P2 22
- RAL P1 + P2 SET 23
- RAL P1 + P2 SINGLE PLATES 23

RAL DIGITAL

The RAL colours for computers and smartphones

- RAL DIGITAL Version 5.0 25
- RAL COLORCATCH NANO 26
- RAL iCOLOURS 27

RAL ACADEMY

Training of colour designers at a very high level

- RAL ACADEMY 29

RAL BOOKS

Suggestions, insights and trends for the world of colours

- RAL COLOUR FEELING 2016+
  The colour trend book for everyone dealing with trends — 31
- THE COLOUR DICTIONARY
  The reference work for interior design, advertising, design and teaching — 32
- COLOUR MASTER
  The inspiring, interactive design book with endless possibilities for creative people — 34
- COLOURS FOR HOTELS
  The planning manual for designers in the hotel sector — 36

RAL COLOURS

Distribution partner

- RAL COLOURS — 38

RAL CLASSIC

THE WORLD'S LEADING INDUSTRIAL COLOUR COLLECTION

The **RAL CLASSIC** colour collection has for 90 years been indispensable in the clear communication of colours and a guarantee for obtaining exactly the same colours – worldwide.

APPLICATION EXAMPLES

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.

Allmilmö – a leading premium brand manufacturer of high-quality kitchen furnishings – produces these kitchen models in RAL 1023 traffic yellow.

A design classic that is available in various colours. The picture shows a model in RAL 1004 Golden yellow.

Emergency exit signs have the colour RAL 6002 Leaf green.

Thonet produces the S 43 cantilever chair by Mart Stam in 11 RAL colours.

RAL 840-HR

Primary standards with
213 RAL CLASSIC colours

TQC Art.no
VF6600

- 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

TQC Art.no
VF6603

- 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 K1

Booklet with
213 RAL CLASSIC colours

TQC Art.no
VF6644

- 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

Personalised company imprint

For further information:

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Molenbaan 19
2908LL Capelle a/d IJssel
The Netherlands

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info@tqc.eu
www.tqc.eu

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

TQC Art.no VF6607 matt

TQC Art.no VF6608 gloss

RAL K5 INDIVIDUAL

Personalised company imprint

For further information:

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Molenbaan 19
2908LL Capelle a/d IJssel
The Netherlands

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info@tqc.eu
www.tqc.eu

RAL K6

Ring binder with all
213 RAL CLASSIC colours

TQC Art.no
VF6609

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

RAL K7

Colour fan deck with
213 RAL CLASSIC colours

TQC Art.no
VF6606

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

RAL F9

Collection of Bundeswehr camouflage colours

TQC Art.no VF6650

- A5-sized (14.8 x 21.0 cm), colour illustration A6-sized (10.5 x 14.8 cm)
- Colour samples for colour matching and quality control
- With production and tolerance information from the Bundeswehr

RAL K7 INDIVIDUAL

Personalised company imprint

For further information:

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The Netherlands

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RAL DESIGN SYSTEM

THE CIELab-BASED COLOUR SYSTEM

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

BK 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 und RAL 7035 Light Grey.

APPLICATION EXAMPLES

The company LEICHT Küchen AG uses the colours from the RAL DESIGN SYSTEM. The colour Curcuma is RAL 070 60 60.

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 SYSTEM provides 1,625 colours and one million options.

RAL D2

TQC Art.no
VF6619

Colour fan deck with 1,625 RAL DESIGN SYSTEM 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

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RAL D4

The Colour Atlas with 1,625 RAL DESIGN SYSTEM colours presents the various colour gradients within a colour tone from light to dark, as well as their increasing colour intensity.

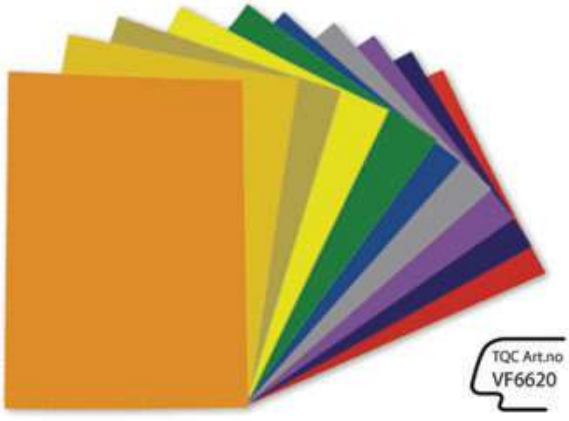
- Atlas size 31.5 x 28.0 cm
- Colour size 1.7 x 1.7 cm
- Semi matt

TQC Art.no
VF6646

RAL DESIGN SYSTEM SINGLE SHEET

Colour samples of RAL DESIGN SYSTEM colours

TQC Art.no
VF6626



TQC Art.no
VF6620

DIN A6

- A6-sized 10.5 x 14.8 cm*
- Semi matt

DIN A4

- A4-sized 21.0 x 29.7 cm*
- Semi matt
- 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.

RAL D6

TQC Art.no VF6647

Box with 1,625 individual sheets

- Box format 49.0 x 26.0 x 17.5 cm
- RAL DESIGN SYSTEM colours
- Clearly arranged according to the CIELab colour circle
- Format DIN A6 (10.5 x 14.8 cm)

RAL D8

TQC Art.no VF6641

Box with 8 colour fan decks

- Box format 28.0 x 11.5 x 6.5 cm
- CIELab colour circle on the inside cover
- 1,625 colours
- Fan deck format 10.0 x 3.3 x 5.0 cm
- Clearly arranged system
- Semi matt

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.

APPLICATION EXAMPLES

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 many RAL colours.

Roundboard is a small storage hotspot. For the coating of this piece of furniture, only RAL colours are applied, for example the RAL EFFECT colour shades RAL 120-2 (PAPER), RAL 690-1 (AZURE) and RAL 690-5 (PETROL).

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 many RAL colours.

RAL E1

TQC Art.no VF6612

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

- Box format 49.0 x 26.0 x 17.5 cm
- 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 E3

Colour fan deck with
490 RAL EFFECT colours

TQC Art.no
VF6615

- 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 5.0 x 3.8 cm
- Also available with personalised company print

RAL E4

Colour fan deck with
70 RAL EFFECT colours

TQC Art.no
VF6616

- Colour displayed across full surface 5.0 x 13.0 cm
- High gloss
- Also available with personalised company print

RAL EFFECT SINGLE SHEET

Colour samples of all
490 RAL EFFECT colours

TQC Art.no
VF6618

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

TQC Art.no
VF6617

RAL PLASTICS

THE COLOUR STANDARD FOR PLASTICS

Multi-functional polypropylene plates simplify the reproduction of **RAL** colours for plastics. An independent **RAL** colour standard for plastics is now available for the first time with **RAL PLASTICS** This material is an ideal partner even for innovative building architecture in the 21st century.

Three different surface textures – high gloss polished, VDI 24 and VDI 42 – show users the colour dependent on surface roughness.

RAL PLASTICS offers an individual RAL colour standard for plastics.

Material: polypropylene

RAL P1

TQC Art.no VF6627

The 100 most popular RAL CLASSIC colours as polypropylene 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
- Three levels of thickness: 0.3 cm, 0.2 cm and 0.1 cm
- Three different surface textures – high gloss polished, 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 P2

TQC Art.no
VF6629

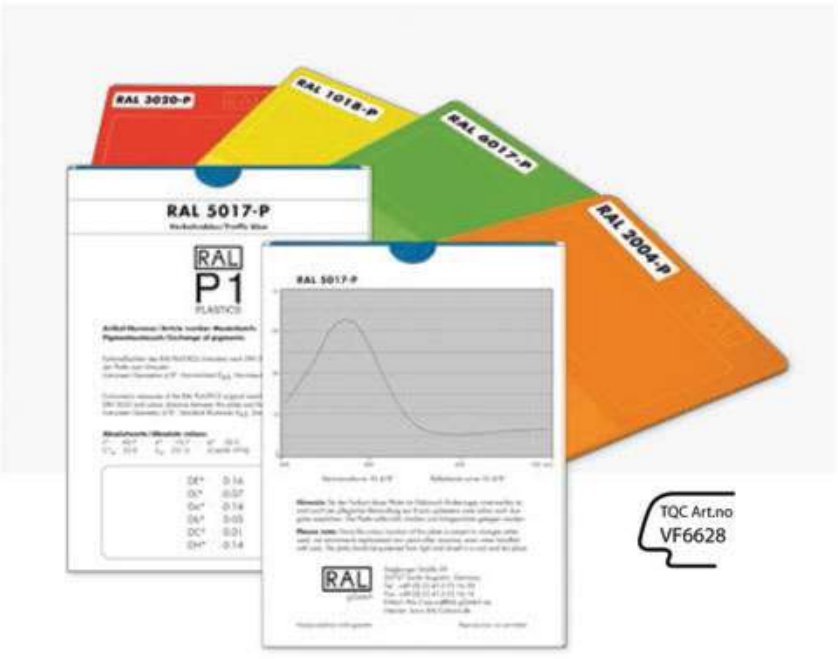
200 RAL DESIGN SYSTEM polypropylene colour plates in two protective cases for innovative product and building design

- Binding colour sample for plastics in RAL DESIGN SYSTEM
- 160 opaque plates
- 40 transparent plates
- Three levels of thickness: 0.3 cm, 0.2 cm and 0.1 cm
- Three different surface textures – high gloss polished, VDI 24 and VDI 42
- Includes absolute values and colour distance from original plastic sample
- With reflectance curve
- Protective sleeve for each plastic plate

TQC Art.no
VF6631

RAL P1 + P2 SET

All 300 RAL PLASTICS colours
in three protective cases



TQC Art.no
VF6628

RAL P1 + P2 SINGLE PLATES

300 RAL PLASTICS colours

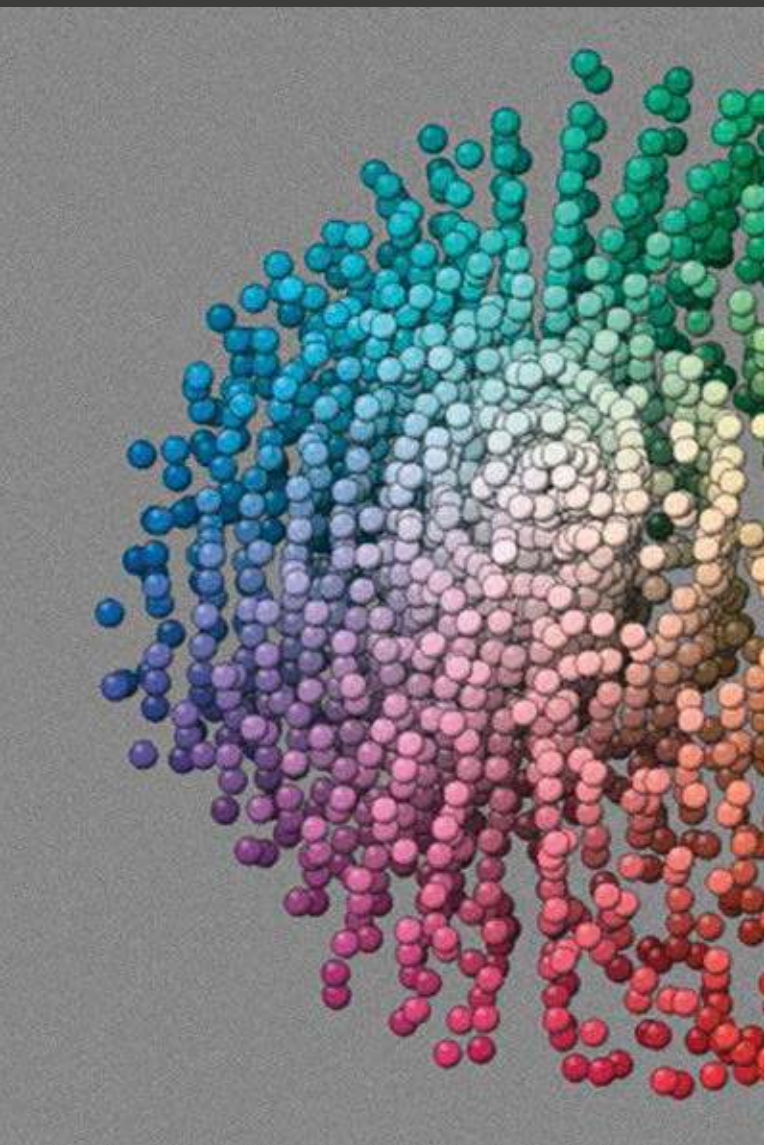
- Binding colour sample for plastics in RAL DESIGN SYSTEM colours
- Format 10.5 x 14.8 x 0.3 cm
- Three levels of thickness: 0.3 cm, 0.2 cm and 0.1 cm
- Three different surface textures – high gloss polished, VDI 24 and VDI 42
- Includes absolute values and colour distance from original plastic sample
- With reflectance curve
- Protective sleeve for each plastic plate

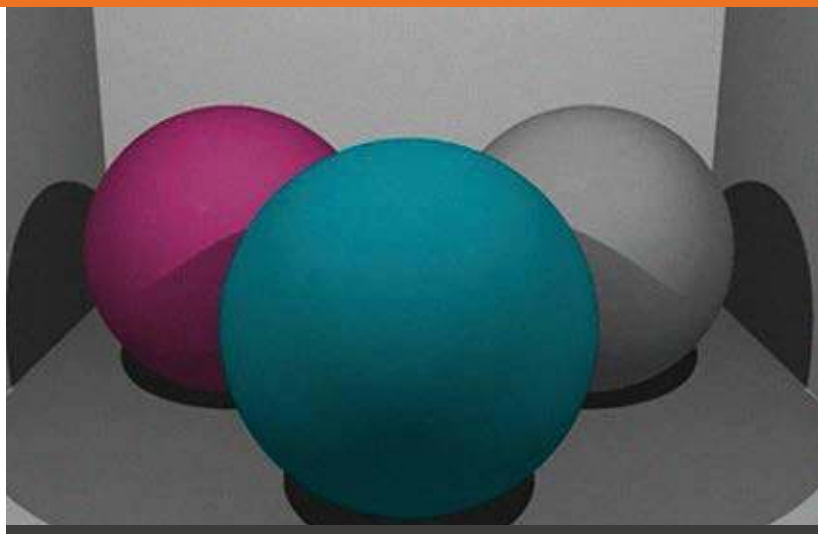
RAL DIGITAL

THE RAL COLOURS FOR THE COMPUTER

RAL DIGITAL products also open up the digital world of colour. The **RAL DIGITAL 5.0** software contains all 2,328 RAL colours and allows you to navigate through the entire colour spectrum. All RAL colours can be exported and integrated into many well-known graphics and CAD programmes.

The 3D colour space shows different colour palettes.





RAL DIGITAL 5.0 enables you to try out colours on images and 3D objects under different lighting conditions, as well as to colour your own images.

RAL E1 EFFECT	60,7254	-11,5464	34,0495	142	152
RAL E1 EFFECT	51,6549	-9,20632	32,2807	122	127
RAL E1 EFFECT	43,5657	-14,7751	25,3688	89	109
RAL E1 EFFECT	42,6982	-21,761	27,4859	74	110
RAL E1 EFFECT	46,0118	-16,6672	29,8187	93	116
RAL E1 EFFECT	90,624	-6,93984	32,9131	233	231
RAL E1 EFFECT	87,2065	-10,341	54,6095	225	223
RAL E1 EFFECT	72,756	-13,0308	75,1055	183	184

The RAL DIGITAL 5.0 software contains all 2,328 RAL colours.

RAL DIGITAL

TQC Art.no VF6632

VERSION 5.0

Software with all 2,328 RAL colours for **Win** or **Mac**

- Contains RGB, HEX, CMYK, LAB, HLC and lightness values for all RAL colours
- Shows inspirational colour harmony recommendations based on monochromatic, adjacent, analogous and complimentary combinations
- Colour search: Find RAL colours based on matches to current commonly used collections or compared to colorimetric values
- Generate and store or export your own colour data for integration into many design and CAD programs, or simple text format for document or spreadsheet analysis

RAL colour palettes can by imported from the following programmes amongst others:

- AutoCAD Colour Book (*.acb)
- Chromalyzer v1.x (*.txt)
- Corel (*.cpl)
- Excel (*.csv)
- Illustrator (*.ase)
- Palette Image (*.png)
- Jpeg Format (*.jpg)
- Photoshop (*aco)
- Windows Bitmap (*.bmp)
- Vector Works [RGB] (*.xml)
- Quark XPress (*.qcl)
- Nemetscheck (*.pal)

You can find a complete list on www.ral-colours.com

Software for designers, architects, interior designers and anyone else who works creatively and professionally with colour. **RAL DIGITAL** enables

- Navigation through the entire colour spectrum and the **RAL** colour space scale
- The perfect colour tone and harmonious colour combinations to be identified based on many different criteria and specifications
- The innovative depiction of colours in a movable 3D colour space
- The editing of image files: Your own images can be coloured, while colours from images can be analysed and recorded
- An image or colour to be viewed in different types of lighting thanks to the new, innovative light box

RAL COLORCATCH NANO

Colorimeter

TQC Art.no VF0710

- Features an integrated calibration system
- Magnifies an image six times and measures the colour from just a few pixels
- Shadows or dirt are eliminated during measurement
- Indicates RGB, LAB and CMYK as well as the reflectance values of most selected colour cards
- Additional colour collections can be purchased from within the app
- Contains all 2,328 RAL colours

***RAL COLORCATCH NANO works together with**

- RAL iCOLOURS
- Download Apple Store (EUR 8,99)
- Download Google Play (EUR 9,99)

GERMAN DESIGN AWARD WINNER 2017

The colorimeter **RAL COLORCATCH NANO** measures up to five colours at the same time, regardless of surface and material, and finds the corresponding **RAL** colour shade. The shade is shown with digital colour values and - using the app **RAL iCOLOURS*** – applied to an object directly and sent via e-Mail. During the colour measurement all non-dominating colour shades, shadows or dirt are eliminated automatically.

RAL iCOLOURS

The app with all RAL colours for iOS and Android devices

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

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 in any **RAL COLOUR**.

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

- Photograph an object
- Select the colour range **RAL CLASSIC**, **RAL DESIGN SYSTEM** or **RAL EFFECT**
- Transfer the selected colour shades into the photo

RAL ACADEMY

TRAINING AND DEVELOPMENT ON A VERY HIGH LEVEL

The seminars at the **RAL ACADEMY** on the subject of colour and colour design are aimed at all occupational groups from the areas of architecture, design and trade who want to expand their knowledge of colour and be perceived by their customers as experts in this field.

Colour psychology and colour physiology.

Well-being & design: how colours work and why.

Colour strategies and application.

Colour trends and ambience: trend marketing

RAL ACADEMY

- Training and development for colour designers
- Workshops & seminars as well as shop and atelier talks
- Getting to know and using RAL products
- Insights into colour design, theory & practical exercises
- Top-class speakers and course instructors

Specialists in colour design always keep their expertise up to date. **RAL COLOURS** is supporting them in this and connects modern scientific knowledge to long term experience in training and development of colour designers at a very high level.

Through the close partnership with the Bergische Universität Wuppertal, Germany and the "Haus der Farbe" in Zürich, Switzerland, professional colour users receive the latest knowledge and benefit from decades of practical experience in theoretical and practical training about topics such as colour and light.

The offer ranges from one day workshops and seminars to two day workshops and shop and atelier talks. Participants not only get to know and learn to use the diverse world of **RAL** products, but also gain profound insights into the world of colour design and connections between light and colour.

With the **RAL ACADEMY** events, the colour and design expertise of the participants will benefit. At the same time the academy will establish connections between different professional groups dealing with the topics colour and colour design.

Further information about the topic of training and development at **RAL COLOURS** can be found at www.ral-akademie.de

RAL BOOKS

INSPIRATION AND STIMULATION FOR COLOUR DESIGN

RAL BOOKS offer a selection of indispensable planning tools for design, inspiration, insights and trends in colour. All colour design books are published in two languages – in German/English and sometimes additionally in Chinese/English.

RAL BOOKS provide inspiration and stimulation to architects, interior decorators, designers and creative people.

Numerous practical examples demonstrate the use of colour in spatial design.

Highly expressive collages illustrate the colour effects.

RAL COLOUR FEELING 2016+ contains inspiring design tips and pioneering application examples. Four trends with eight colours each show, which colourful direction mainly architects, designers, interior architects and interior designers, but also everyone else, will be going in from 2016. The 32 colours are taken from the colour collections **RAL CLASSIC** and **RAL EFFECT** as well as the **RAL DESIGN SYSTEM**.

RAL COLOUR FEELING 2016+

TQC Art.no VF6645

Inspiring design tips and application examples

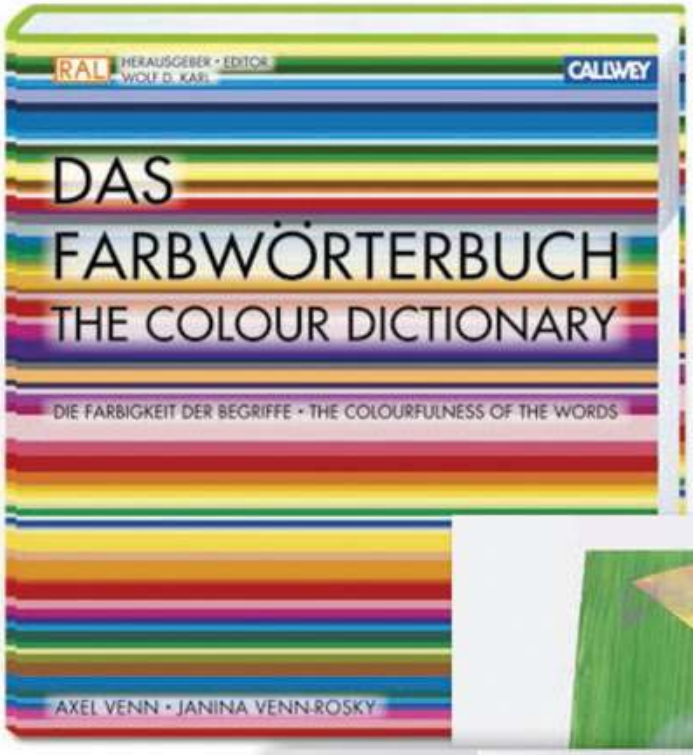
- Four major colour trends: Immersive Experience, Exotic Movement, Man & Machine and Authentic Order
- Numerous examples of colour combinations
- Inspiring images and informative texts
- Full-page coated swatchbook (8.0 x 12.6 cm) with all 32 trend colours
- 68 pages, 25.0 x 29.0 cm
- Book & Swatchbook in a practical plastic slip case (28.0 x 32.0 cm
- Bilingual: German/English

GERMAN DESIGN AWARD WINNER 2016

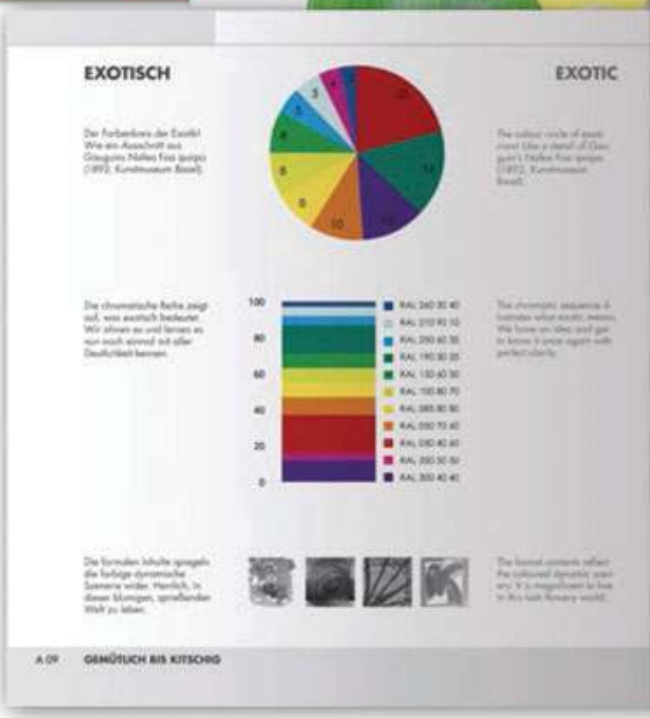
THE COLOUR DICTIONARY

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

- 360 adjectives and their translation into colour compositions
- Displayed in RAL DESIGN SYSTEMS colours
- 864 pages
- Approx. 20,000 figures
- Format: 24 x 26 cm, hardcover
- Bilingual: German/English
- Large poster



TQC Art.no
VF6639



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.

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 DESIGN SYSTEM** colours are used. Professor Venn is also the author of **COLOUR MASTER** and **COLOURS FOR HOTELS.**

COLOUR MASTER

TQC Art.no VF6642

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

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

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 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 the 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.

FARBBEGRIFFE III - TERMS IN COLOUR III

GEBRAUCHSANLEITUNG - INSTRUCTION

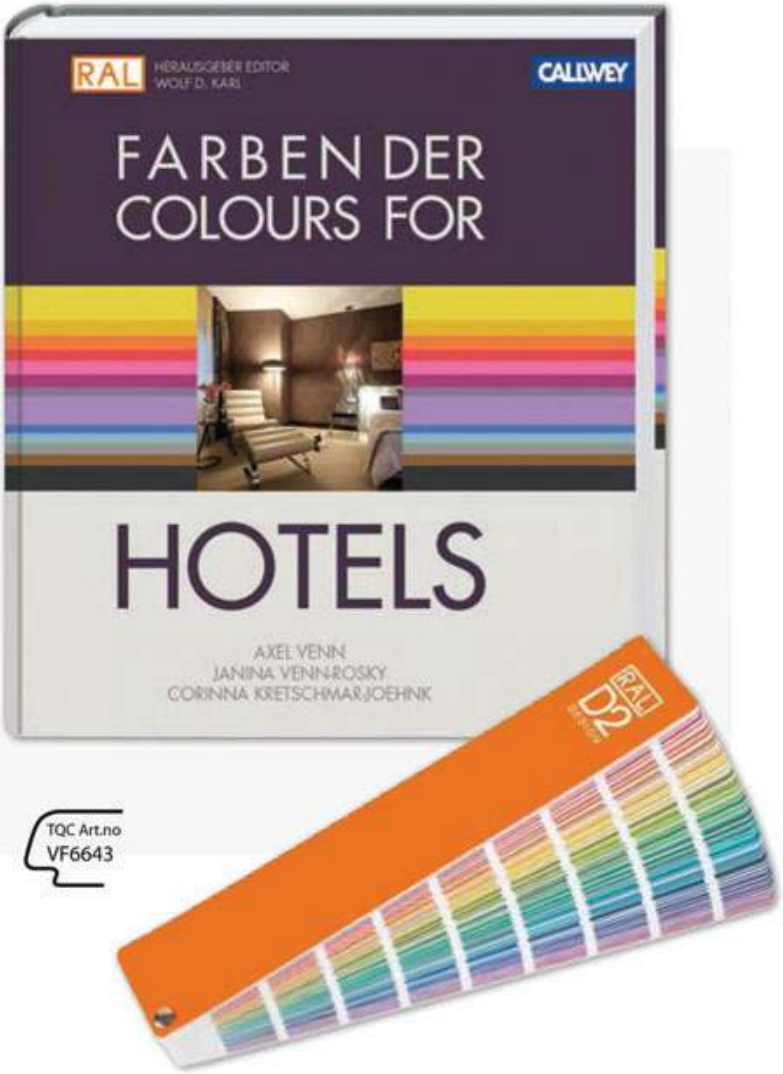
HÖLZER - WOOD

COLOURS FOR HOTELS

The planning manual for designers in the hotel sector

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

German Design Award
WINNER 2015



TQC Art.no
VF6643

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.

LUXURIÖS LUXURIOUS
LUXURIÖS
LUXURIOUS
REPRÄSENTATIV
PRESTIGIOUS
LUXURIÖS
REPRÄSENTATIV
HOCHWERTIG
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LUXURIOUS
PRESTIGIOUS
HIGH-END
EXCLUSIVE
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EUROPE

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

+31(0)10 - 79 00 100
+31(0)10 - 79 00 129
@ info@tqc.eu
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Since 1925.

RAL QUALITY MARKS A reliable choice

RAL QUALITY MARKS (RAL GÜTEZEICHEN) signal the particularly high level of quality of products and services to consumers. At the same time, they stand for clearly defined values: Companies that use RAL QUALITY MARKS (RAL GÜTEZEICHEN) promise fair, honest and exemplary behaviour. They assume responsibility for their products and services and are thus reliable partners for consumers.

RAL COLOURS The language of the world of colour since 1927

RAL COLOURS are the world's leading colour standard for all professional users of colour in industry, trade, architecture and design. The 2328 colour tones deliver the highest level of precision and a varied choice. RAL COLOURS are marketed via our own sales partners in over 40 countries.

RAL ENVIRONMENT The awarding body for the Blue Angel ecolabel for almost 40 years

Consumers require reliable information in order to act in an environmentally conscious manner. Ecolabels like the "Blue Angel" or the "EU Ecolabel" stand for environmentally friendly goods and services, which are only permitted to carry the environmental label once they have passed a strict testing process. The testing process and the awarding of the environmental labels have been carried out by RAL ENVIRONMENT since 1978.

RAL LOGO LICENCE Brand marketing and monitoring

RAL LOGO LICENCE guarantees the worth of the tests carried out by Stiftung Warentest by monitoring and licensing advertising that uses the test results. Consumer deception and false advertising are prevented and the tests remain objective and independent. In addition, RAL LOGO LICENCE is available to institutions and companies that want to independently market and/or monitor their brand.

RAL ACADEMY High quality communication of knowledge

At our seminars, workshops, presentations and talks, we pass on our specialist knowledge to interested parties and a variety of occupational groups. Further high quality training of colour designers is a key focus of the RAL ACADEMY.

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ZP 7

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TQC
WWW.TQC.EU

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

+31(0)10 - 79 00 100
+31(0)10 - 79 00 129
info@tqc.eu
www.tqc.eu