

## Quality philosophy



Anyone deciding to purchase an individually planned fitted kitchen expects to acquire quality, convenience and lasting value.

A rational brand-name kitchen fulfils these requirements because the guarantee of quality is assured by two parties at the same time: the manufacturer and the specialist dealer. This applies equally to kitchen furniture, built-in appliances, built-in sinks and accessories.

Whilst rational as the brand manufacturer vouches for the quality of its products, the rational specialist dealer undertakes the responsibility of providing the customer with an individual consultation service, careful planning, expert installation and a reliable aftersales service. rational regularly carries out performance and safety tests as well as in-process inspections according to relevant, respectively applicable standards. These take place in rational's own testing laboratory or at the premises of rational's suppliers (brand manufacturers).

In addition, rational subjects its products to testing by independent furniture testing institutes. The high quality standard of rational fitted kitchens is thereby assured.

## Sustainability



As the manufacturer of high-quality fitted kitchen furniture rational accepts its duty towards people and nature by observing and implementing aspects of environmental protection in its material input, the manufacturing process as well as in the practical use of its kitchens. These high-quality and environmental standards are verified by various certificates and test confirmations awarded by neutral bodies. It is part of rational's environmental protection concept to act according to ecological criteria in its selection of materials and suppliers; the objective being to reduce the use and impact of harmful materials to a minimum and as far as possible to avoid their use entirely. rational uses wood from responsible forest management. The majority of suppliers are certified according to the Forest Stewardship Council (FSC). This certificate is the most important international seal of approval for wood produced from environmentally-friendly and socially responsible cultivation. The company predominantly uses FSC-certified particle board made from recycled wood and thus contributes towards protecting the environment.

## Tested for quality



The Deutsche Gütegemeinschaft Möbel e.V., (German Association of Quality Furniture) Nuremberg has awarded the rational Collection with the Golden 'M', (RAL-symbol for proven furniture quality). Furniture with this symbol has stood numerous stringent tests in independent laboratories. This guarantees a healthy living and environment and eco-friendly friendly production.



The furniture testing institute LGA-Bavaria has subjected all ranges from the rational collection to its safety tests. The requirements regarding construction and technical equipment have been fulfilled. In recognition of this, the GS safety symbol has been awarded.



The LGA InterCert certifies that the company rational einbauküchen GmbH has instigated a quality management system in accordance with DIN EN ISO 9001 : 2008.



rational is a member to AMK (Workgroup Group „The Modern Kitchen“) and manufactures all its fitted kitchens in accordance with these practice-oriented, ergonomic requirements at the same time as taking into account the relevant DIN standards.

## Five-year guarantee



In order to illustrate its high quality standard, rational voluntarily extends to its contracting parties a five-year guarantee covering **free-of-charge replacement** in terms of function and quality of workmanship for any proven cases of **manufacturing or material defects**. Statutory claims under the guarantee shall remain unaffected by this.

This guarantee policy relates exclusively to the furniture components that are produced and supplied by rational and not to any purchase parts supplied by the specialist dealer. Likewise not covered by the guarantee are electrical appliances and electrical components, accessories, lamps and replacement bulbs, transformers, handles/knobs and coverings as well as any parts not produced by rational itself and in such instances the guarantee terms and conditions of the respective manufacturer shall apply.

Any replacement deliveries shall be subject to changes in design, colour and material in accordance with state-of-the-art technology and in line with product development customary for the market. The guarantee does not apply to damage resulting from natural wear and tear, use-related wear, improper use or incorrect/inadequate maintenance and care. The instructions for use and care/maintenance instructions, included with every kitchen supplied, must be adhered to.

The right to claim under this guarantee is limited to the original buyer and is non-transferable. The guarantee period commences with delivery of the kitchen to the buyer (specialist dealer) and ends 5 (five) years thereafter. The critical date determining the commencement of the guarantee period shall be the invoice date. Repair or replacement of the product, for which a claim has been made, does not initiate a new guarantee period or extend the existing one.

**For more detailed information, please refer to our „General Terms & Conditions of Delivery and Payment“.**

## Front finishes



Practically all the fronts have a material thickness of 22 mm. Thus in terms of quality and the combination variety of the various product ranges the company provides true added value.

The substrate material is either a 3-layer quality particle board or an MDF board, which then undergoes a finishing process, i.e. is coated or lacquered. MDF is a medium-density fibreboard pressed out of wood fibres and meeting exacting requirements.

The surfaces of rational fronts are regularly tested to ensure they satisfy the robustness and resistance criteria for components stipulated in DIN 68861.

## Surface materials

### Melamine / laminate

Melamine is a proven way of finishing derived timber products. Several layers of melamine resin (natural resin) impregnated paper (decorative layer and backing) are directly bonded to a high-quality substrate, thus producing an extremely hardwearing, highly resistant surface. At rational these materials are used for decorative surfaces, such as the carcass, fronts, shelving and panels, which are exposed to extreme wear and tear.

### Laminate

In the case of laminate fronts the substrate, e.g. 3-layer particle board, is finished with plastic laminates. We distinguish between high pressure laminates (HPL) and continuous pressure laminates (CPL). In both processes decorative paper is impregnated with melamine resin (natural resin) and the several layers of backing paper with phenolic resin (synthetic resin) and then bonded to the substrate under extreme heat and pressure. HPLs/CPLs are used for heavy-duty surfaces, such as worktops.

### Foil-wrapped fronts

With polymer coated (PM) surfaces a high quality plastic foil is wrapped around a high-grade substrate (MDF) using adhesives specially developed for this purpose. This process is used for surfaces subjected to normal wear and tear, such as fronts, cornice and light baffles. In the region of the edge the maximum temperature may not exceed 70°C which complies with the requirements of the leaflet issued by the special „Technology and Standardization“ Commission of the AMK.

### Soft lacquer

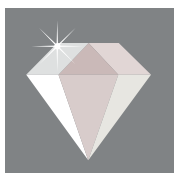
The soft lacquer produced at rational is a water-based paint that is free from solvents and therefore extremely eco-friendly. A special process affords the soft lacquers an even, soft-textured surface. Thanks to UV technology the soft lacquer is extremely light fast and easy to clean. Its excellent chemical resistance is verified by the product-testing institute, LGA QualiTest GmbH.

### High-gloss lacquer

The high-gloss lacquers are 2-component lacquers which are applied in multiple coats. After drying the lacquer is polished to a high gloss. It is this labour-intensive process that gives the surface its desired brilliance. Our high-gloss lacquers are 2-component lacquers that afford the front equal protection on both the outer and inner faces. A key benefit of the high-gloss lacquered surfaces is their low maintenance.

**Note:** Changes in colour due to lacquered surfaces being exposed to light cannot be excluded and are thus deemed acceptable. The LGA QualiTest GmbH has confirmed that the lacquering system used by rational satisfies the strict criteria according to RAL GZ 430.

Over and above the respectively current standard colour fans for soft and high-gloss lacquers rational can also supply many of its kitchens in all the RAL/NCS colours.



## Surface materials



### Lacquered laminate supermatt

The surface, lacquer finished in a patented process, offers a high degree of resistance and for a matt surface is exceptionally durable.

The lacquer is applied to a polyethylene (PE) substrate which is then proficiently bonded to the particle carrier in a protected production process

The fully saturated colour and calming effect of matt lacquer, boasting a unique level of sheen close to zero, impresses due to the softness of both its look and feel.

### Veneers and solid wood

Real wood veneer means that a thin layer composed of individual strips of fine quality wood is glued and pressed to the surface of a high-quality substrate. Bookmatched veneers are particularly exquisite in appearance. In this process the veneer for a kitchen is selected from one single tree trunk and put together specifically for the fronts of that particular kitchen. This ensures that there is a harmonious and uninterrupted matching of the grain pattern across all the fronts. Thus every kitchen produced in this way has its own unique appearance. At rational veneers are used for fronts and visible sides, shelving and panels.

Solid wood denotes exclusively genuine naturally grown wood. At rational it is used for worktops, organization systems and decorative elements (e.g. plate racks and pilasters).

Please note the natural characteristics of wood. Wood is a naturally grown product that displays variations in structure and colour. Solid wood and veneers should not be exposed to extremes of dryness or humidity. The materials used for fitted kitchens are designed for a relative humidity of 45-65 %. The appropriate atmosphere is achieved and damage (e.g. cracks or swelling) avoided by means of ventilation or humidification.

Tree trunks processed as solid wood or veneers vary widely in their colour and texture. There will always be variations in colour and texture due to growth. These variations cannot be avoided even in cuts from the same tree. Colour and structure variations especially occur in naturally coloured woods. Depending on the exposure to light and the wood species in question the original colour of wood can change. These age-related changes are deemed acceptable and do not constitute grounds for complaint. For this reason it is not possible to supply additional items „according to colour sample“.

### Acrylic glass

Acrylic glass is a glass-like plastic offering outstanding surface qualities.

The reverse face of the 2 mm thick acrylic sheet is colour-coated and bonded to the MDF substrate in a protected production process. The acrylic front is characterized by its high-gloss brilliance and excellent machinability.

### Glass

Since glass is an aesthetically-appealing and extremely hygienic material, it is highly versatile and therefore widely used in many different ways. In fronts with glass surfaces a glass pane lacquered, on the back is glued onto a substrate. The types of glass used are subjected to special glass breakage tests according to DIN/EN 1153 (safety requirements and test methods for built-in and free-standing kitchen units as well as worktops). This applies in particular to glass components positioned at a height of up to 900 mm above the floor (generally glass fronts/pull-outs in the base unit area). The glass used in rational kitchens is mostly safety glass.

## Standard finish



The **carcase** and **interior shelves** are made from **19 mm thick** 3-layer quality particle board (E1), manufactured with a high-quality direct laminate coating on both sides according to eco-friendly principles and in line with the guidelines of the German Furniture Association. The coating is highly resistant and easy care. Special joining technology affords the carcase great rigidity. The

### Carcase front edges

The carcase front edge is provided with a top quality thick edge and as a result it is highly impact resistant. We offer a high degree of variability in terms of which edge colours can be assigned to the respective front finish. With regard to visible sides in lacquer, high gloss or veneer this carcase front edge is supplied in the colour of the visible side.



### Visible carcase sides

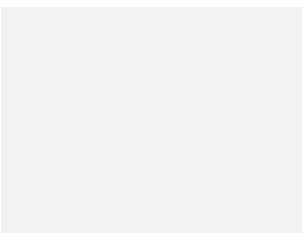
Visible outer sides in repro (colour group R) are supplied free of charge. This must be clearly indicated on the order and marked on the drawing.

Visible sides in the colour groups lacquer (L), high gloss (H) or veneer (F) are supplied at extra charge.

### Removable shelves

Our 19 mm thick removable shelves are height-adjustable and come with **sturdy metal shelf supports** and an additional anti-tilt safety device to prevent them from falling out.

## Carcase versions



### Carcase finish 176 Snow

Colour: snow

Edge finish: variable

Finish of visible carcase side: variable



### Carcase finish 174 Linea

Colour: based on colour „platinum grey“ with a slight linen texture

Edge finish: fix 174 Linea

Finish of visible carcase side: fix 174 Linea

## Fittings



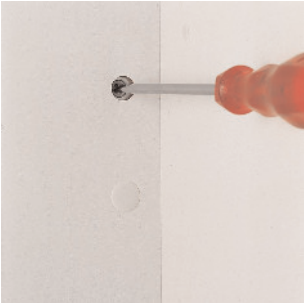
### Hinges

#### Metal clip hinges incl. soft<motion

These metal hinges are extremely durable and sturdy (extended fatigue test at LGA Nuremberg). The 107° opening angle (or 150° in some specific units) allows easy access to the unit interior.

The locking mechanism of the articulated arm provides two-fold safety and security and thus satisfies the highest quality standards. Clip hinges greatly facilitate installation thanks to the tool-less front mounting, trouble-free height, depth and lateral adjustment plus convenient, quick door change.

**soft<motion** closes the doors gently and quietly - the optimum closing action.



### Hanging systems for wall units

The high-quality hanging system offers an array of benefits in every respect.

The **steel construction** ensures optimum strength and security. It includes an easy-to-use, installer-friendly adjustment function. The system impresses also in terms of appearance: the hanging brackets are not visible inside the unit because they are located behind the back panel.

## Plinth system



Base units and tall units are equipped with a height-adjustable and installation-friendly plinth system. Every individual unit can be precisely adjusted on site. The plinth panel comes with a sealing strip at the point of contact with the floor.

A plinth height ranging from 7 to 23 cm is available in full cm increments.

Each plinth foot can be adjusted from the inside (upwards + 2 cm, downwards - 1 cm).

Plinth panels in repro (colour group R) are supplied free of charge. Plinth panels in the colour groups lacquer (L), high gloss (H) or veneer (F1/F2) are supplied at extra cost.

## Drawer and pull-out system



(III. LEGRABOX silk white)

### LEGRABOX

Our drawer and pull-out system stands out on account of its sleek, linear appearance. The minimalistic frame design featuring 12.8 mm ultra-slim drawer sides in **silk white** or **orion grey** underscores the elegant aesthetics of the LEGRABOX.

A special cabinet profile ensures a high quality of motion. The runner system offers many outstanding features, such as the synchronized smooth running action for an even higher quality of motion, alongside a dynamic load-bearing capacity of 40 kg for drawers and 70 kg for pull-outs.

Our drawers and pull-outs across all the kitchen ranges include integrated automatic closing and a pull-out safety stop.

The gentle braking action of **soft<motion** ensures automatic soft and silent closing of drawers and pull-outs. The standard full extensions system offers optimum access in daily use. Maximum volume in the extension area is achieved thanks to the extra-high steel back panel in silk white.

**Note:** For technical reasons some items are not available with a high back panel or with soft<motion.

## Finishes



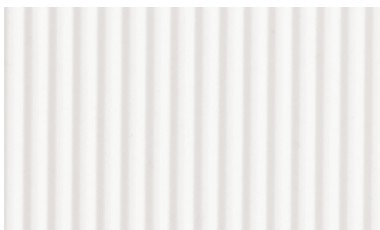
(III. LEGRABOX orion grey)

### Colours:

**LEGRABOX silk white = interior equipment 207**

**LEGRABOX orion grey = interior equipment 607**

## Non-slip mat



(III. non-slip mat white TAM...)

### Non-slip mats

All drawers and pull-outs as well as larder units and carousel units come with a non-slip mat as standard in the colour of the pull-out interior equipment.

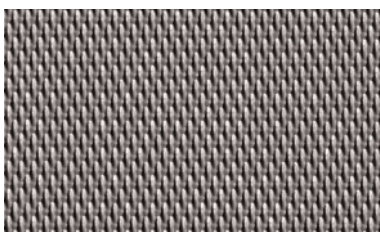
### Possible combination

Ordering example: LEGRABOX silk white with a non-slip mat in grey - please order the non-slip mat **in addition** as a separate item.

Separate item

Non-slip mat white = TAM...

Non-slip mat grey = TAG...



(III. non-slip mat grey TAG...)