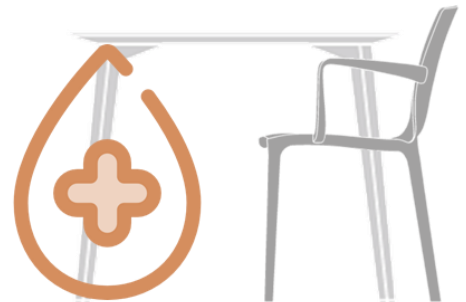


Cleaning and disinfection

Recommendations for different materials



Thank you for choosing a quality Brunner product. The following cleaning and disinfection instructions should help you to keep your product looking and functioning at its best for as long as possible.

General information

When using cleaning and disinfecting agents, we recommend that you refer to the manufacturer's instructions for use and always test the suitability of the product on a concealed area first to avoid discolouration or abrasion.

As a general rule, it is best to use cleaning and disinfecting agents that can be sprayed on and then wiped off. Be sure to use the correct amount of disinfectant and check that it is spread evenly over the surface. Using large amounts of disinfectant on isolated parts of the surface can cause permanent stains. Do not leave disinfectant to work for more than ten minutes.

Please note that hand sanitisers should not be used to disinfect surfaces. Their moisturising properties may cause irreversible damage and discolouration to materials.

Materials at a glance

We have put together a list of cleaning and disinfecting instructions for all the different materials and surfaces we use in our furniture.

Plastic	Steel
Wood	HPL & HPL Polyrey
NanoTec Brunner	Trespa
Glass & Plexiglass	Fabrics & leather
Powder-coated carrier plate	

1. Plastic

Shells, frames, armrests, row linking devices and so on

Cleaning

Any commercially available household cleaning and plastic care products can be used to clean plastic. Wipe the surface with warm, soapy water and leave to work. Wipe away any residue with clean water and leave to dry.



Do not use any highly concentrated alkalis or acids, halogens (chlorine) or abrasive cleaners.

Disinfection

Our plastic shells and components are robust and resistant to standard disinfectants. We recommend spraying on and wiping off a disinfectant diluted in water with a concentration of no more than 0.5% (follow the instructions for how long the disinfectant should be left to work). The following products are recommended for polypropylene:

- Bacillol AF
- Descogen 1.5%
- Desinet compact 0.5%
- Dismozon plus
- Incidin plus
- Incidin pro
- Perform 1%
- Terralin PAA 2%
- Terralin protect 0.5%



2. Steel – polished/chromed

Frames

Cleaning

For normal use, it is sufficient to wipe chromed and polished aluminium metal surfaces with a clean, dry cloth. Any particularly dirty areas can be cleaned with a standard, grease-dissolving all-purpose cleaning agent. Tarnished areas on bright chrome-plating or polished surfaces can be polished up with chrome polish.



Never use abrasive cleaning agents or toilet/bathroom cleaners.

Disinfection

Polished and chromed surfaces are extremely easy to clean. It is just important not to use any solvent-based products. We recommend spraying on and wiping off the following disinfectant products:

- Bacillol AF
- Incidin plus
- Microbac forte
- Perform 1%
- Terralin protect 0.5%

3. Steel – powder-coated

Frames

Cleaning

Wipe powder-coated metal components with a soft cloth that can be dry or damp. Remove stubborn dirt with a standard, grease-dissolving all-purpose cleaner.



Never use plastic sponges, steel wool, steam jet devices, abrasive cleaning agents or toilet/bathroom cleaners, as these could all permanently damage the surface.

Disinfection

Powder-coated surfaces are extremely easy to clean. It is just important not to use any solvent-based products. We recommend spraying on and wiping off the following disinfectant products:

- Bacillol AF
- Microbac forte
- Dismozon pur

4. Wood

Seat shells, frames, edges

Cleaning

Use a soft, lint-free cloth to clean wood surfaces. For normal use, it is sufficient to remove dirt from the surface once or twice a year with a slightly damp cloth. Simply use warm, soapy water and leave it to work for a short while. Carefully wipe the surface dry with a soft, clean cloth in the same direction as the wood grain. After lengthy and heavy use, the lacquered surface can be cleaned with furniture polish.



Avoid rubbing too hard, as this can cause differences in finish to occur with matte surfaces. If liquids are spilled on the surface, wipe them off immediately to avoid marks being left behind.

Disinfection

We recommend spraying on and wiping off a commercially available disinfectant diluted in water with a concentration of no more than 0.5% (follow the instructions for how long the disinfectant should be left to work).

Our **beech and maple** wood surfaces are finished with an environmentally friendly, UV-hardening water-based varnish. We recommend using the following disinfectants on wood surfaces that have been finished with the multi-coat, water-based varnish (clear or coloured):

- Biguanid Fläche
- Perform 1%
- Incidin plus 0.5%
- Dismozon plus 0.8%



The **oak and walnut veneer** surfaces are matt lacquered to highlight the specific nature of these types of wood. We recommend using the following disinfectants on wood surfaces that have been matt lacquered to retain the wood effect:

- Bacillol AF
- Biguanid Fläche
- Perform 1%
- Dismozon 0.8%

5. HPL

Table top surface

Cleaning

Light soiling (limescale, coffee, grease, wax residue and so on) can be removed using mild household cleaning products and plastic care products that are commercially available.

Simply wipe down the surface with a clean, damp cloth and then dry it with a dry, lint-free cloth. This process can be repeated multiple times if necessary or you can leave the cleaning agent to work for longer as needed.

For heavier soiling (adhesives, lacquers and so on), organic solvents such as ethanol, acetone and nail varnish remover will be needed.



Do not use furniture polish, wax-based cleaning agents (e.g. dish detergent), highly concentrated alkalis and acids (e.g. descalers), halogens (chlorine), abrasive cleaners, cleaning cloths and sponges, or alcohol-based cleaners (e.g. glass cleaner).



If liquids are spilled on the surface, wipe them off immediately to avoid marks being left behind.

Disinfection

High pressure laminate is extremely robust, durable and highly resistant to many disinfectants. We recommend spraying on and wiping off a commercially available disinfectant diluted in water with a concentration of no more than 0.5%. The following products are good examples:

- Bacillol AL
- Dismozon plus
- Incidin plus
- Incidin pro
- Mikrozyd AF
- Perform 1%
- Terralin PAA 2%

6. HPL Polyrey

Table top surface, table displays, boards

Cleaning

Mild, commercially available household cleaning and plastic care products can be used to remove light soiling. Wipe down the surface with a clean, damp cloth and then dry it with a lint-free cloth. This process can be repeated multiple times if necessary or you can leave the cleaning agent to work for longer as needed.



Do not use furniture polish, wax-based cleaning agents (e.g. dish detergent), highly concentrated alkalis and acids (e.g. descalers), halogens (chlorine), abrasive cleaners, cleaning cloths and sponges, or alcohol-based cleaners (e.g. glass cleaner).



If liquids are spilled on the surface, wipe them off immediately to avoid marks being left behind.



Disinfection

We recommend spraying on and then wiping off disinfectant products from Anios, Clinimax and Ecolab.



Do not use abrasive, strongly acidic or bleach-based products.

7. NanoTec Brunner (NTB)

Table surfaces

Cleaning

Brunner NTB should be cleaned regularly but does not require any special care. The material is easy to clean with a damp cloth. A microfibre cloth dampened with detergent and water or glass cleaner is well suited to this.

Light spots or streaks are best removed using a commercially available dirt eraser. If removal with the dirt eraser does not work, you may also be able to remove smaller scratches using heat.

For this, you will need a standard household iron. The iron can be used to quickly and easily remove small scratches from the surface. Set the iron to medium (120°C -> Max 30" to 180°C -> Max 10") without steam and pass the iron over the area to be repaired several times in a slow, circular motion. Rub over the area with a dirt eraser afterwards.

Do not use:

- Sponges made from abrasive materials
- Steel wool
- Cleaning agents containing abrasive substances
- Cleaning agents with a high acid content
- Wax-based cleaning agents
- Furniture polish



Please note when using the table that, if liquids are spilled on the surface, they must be wiped up immediately to avoid marks being left behind.

Disinfection

Our NanoTec (NTB) surfaces are extremely easy to clean and durable. You can use more or less any commercially available disinfectant on them.

We recommend spraying on and then wiping off a disinfectant. Make sure that you do not leave the disinfectant to work on the surface for more than five minutes.

We recommend disinfectants containing the following ingredients:

- Ammonium hydroxide (28%)
- Cresol
- Dioxane
- Nitric acid (20%, 30%, 70%)

8. Trespa

Table surfaces

Cleaning

Wipe the table surface clean with a dry or damp cloth. Use a mild household cleaner if required. Finish off by wiping damp surfaces dry with a soft, absorbent cloth.

Heavy soiling, such as paint, adhesive and crayon, can be removed with hot water and a soap-based cleaning product. Use a sponge or nylon brush to help here. Dilute your cleaning product and leave it to work on the surface for a short while. Rinse off with clean water and wipe dry with a soft, absorbent cloth.



Do not use abrasive, strongly acidic or heavily bleach-based cleaning products. Never use any kind of polish.

Disinfection

This material is highly resistant to many disinfectants. Just be sure to avoid strongly acidic and bleach-based products.

We recommend using products containing:

- Alcohol (60–70% in water)
- Phenols
- Peroxide compounds
- Quaternary ammonium compounds



9. Powder-coated carrier plate

Carrier plate (notebook)

Cleaning

We recommend that you clean powder-coated MDF surfaces with water on its own on a regular basis. You could add a small amount of cleaning agent if necessary provided that it is as close to neutral as possible (pH 5–8). Use a soft, non-abrasive cloth or industrial cotton wool to clean the surface. Do not rub vigorously.

Greasy, oily or sooty substances can be removed with aromatics-free white spirit or isopropyl alcohol (IPA). Residues of adhesives, silicone rubber or adhesive tapes can also be removed in this way.

Do not use:

- Solvents containing esters, ketones, aromatics, glycol ethers, halogenated hydrocarbons or similar
- Abrasive or scouring agents
- Strongly acidic or alkali cleaning agents
- Cleaning products of unknown composition

The temperature of the cleaning agents must not exceed 25°C. Do not leave the cleaning agents used to work for longer than one hour. If necessary, the cleaning process can be repeated after at least 24 hours.

Disinfection

When cleaning our powder-coated carrier plates, we recommend spraying on and wiping off disinfectant. Leave the disinfectant to work for a short while and then rub dry with a soft cloth.



Avoid spot application of the disinfectant to exclude changes and discolouration of the surfaces.

We recommend the following disinfectant products:

- O³ SOLUTION disinfection
- Pack zu 9 rapid disinfection
- GLOBALOCID® 200

10. Glass

Table top surface

Cleaning

A commercially available, mild glass cleaner can be used to remove light soiling. Alternatively, the surface can be wiped down with a clean, damp cloth and then dried using a dry, lint-free cloth.

Disinfection

Our glass surfaces are resistant to disinfectants containing alcohol.

We recommend products containing the following:

- Isopropyl alcohol (max. concentration 70%)
- Hydrogen peroxide (max. concentration 0.5%)

11. Plexiglass

Table displays, boards

Cleaning

Wipe the surface with a soft, lint-free cloth and warm, soapy water (commercially available detergent) and leave to work. Wipe away any residue with clean water (do not wipe dry to avoid scratches and static electricity). Remove heavier soiling with a heavy-duty cleaning product designed for plastic and wipe with a clean, soft cloth. Do not wipe dry.



Do not use solvent-based cleaning products, chemicals like acetone, alcohol-based products containing more than 5% alcohol, abrasive cleaners or cleaning cloths/sponges.

Disinfection

This material (PMMA) is very sensitive to disinfectants. We recommend the following products:

- Isopropyl alcohol (2-propanol)
- Perform 1%



12. Cover fabrics

Upholstered surfaces need regular care as they constantly come into contact with dust and dirt. Fabrics must be thoroughly cleaned before being disinfected.

i Some dark fabrics can cause staining. The fabric colour of clothing can be transferred onto the upholstery after coming into contact just once. The result is a permanent, non-soluble stain.

We have put together a list of cleaning and disinfection instructions for all the different fabrics and leathers we use in our furniture.

Polyester & polyester Trevira CS	Virgin wool
Formfleece	Mesh
Artificial leather	Leather

12.1 Polyester & polyester Trevira CS

Cleaning

Clean the covers regularly with an upholstery brush or use a vacuum cleaner suitable for cleaning upholstered furniture. Depending on the level of soiling, it may be advisable to use a damp cloth and a little neutral detergent or dry foam cleaner. Carefully remove larger areas of encrusted dirt manually using a brush before vacuuming. Finish off the cleaning with some clean water on its own.

When using a damp sponge, make sure that the fabric is only ever damp. Getting the fabric too wet may damage it.

i Never rub too hard in your efforts to remove a stain. Using a clean sponge, work your way from the outside in to avoid a circle-shaped mark being left behind.

Removable covers can be washed in the washing machine at 30–60°C (follow the manufacturer's instructions). We recommend washing on a delicate cycle. Never use a tumble dryer.

Disinfection

Disinfect using hot steam or a disinfectant you can spray on and wipe off. We recommend using alcohol-based disinfectants (70%), such as ethanol, hydrogen peroxide 5%, 2-propanol 80% and chlorhexidine 0.05%.

If you are using steam as a disinfectant, you will need to apply the steam to the fabric for at least two minutes. Water-based adhesives can be dissolved.

Another disinfection alternative is bleach (5% concentration) diluted ten parts water to one part bleach. Follow the manufacturer's instructions. Rinse with clean water once you have finished the disinfection stage.

i Bleach can cause discolouration over time. Take extra care when using solvents because they can damage the upholstery under the fabric.



Never use cleaning agents or bleach without diluting them first. Never rub the material too hard, as this may discolour and damage the surface.

12.2 Virgin wool

Cleaning

Wool naturally repels dirt, but we still recommend cleaning and vacuuming it regularly. Always remove stains straight away. Clean up spilled liquids using an absorbent cloth. Remove stubborn dirt from the surface and vacuum as necessary.

Use an absorbent cotton or microfibre cloth or a sponge dampened with a (pH-neutral) household cleaner or warm, soapy water. Do not get the material too wet.

After leaving to work for a sufficient amount of time, soap residue can be wiped off with clean water. The surface can then be dried with an absorbent cloth. Pat the stain, working your way from the outside in to stop it from getting any bigger.



Do not use cleaning products containing bleach or chlorine. Take extra care when the material is wet or damp – rubbing wool when it is wet can cause it to become matted and shrink. Do not iron at a temperature above 110°C and be careful when ironing with steam.



You also have the option of dry cleaning (e.g. with perchloroethylene).

Disinfection

Disinfect using hot steam or a disinfectant you can spray on and wipe off. Disinfectants containing alcohol (70%) can be used, including ethanol. If you are using steam as a disinfectant, you will need to apply the steam to the fabric for at least two minutes. Water-based adhesives can be dissolved that way. After using disinfectants on fabrics, always rinse them with clean water to ensure that no traces of chemicals are left behind.

Ethanol can also be used to disinfect the wool-based fabrics in the **boston** collection. Please note, however, that disinfection may cause discolouration and there is also a chance that the fabric will not last as long as it would otherwise.



Do not use household bleach or chlorine-based cleaning products. Sodium chlorite can cause discolouration.

12.3 Formfleece

Cleaning

To maintain the appearance of the formfleece shell, clean it regularly using an upholstery nozzle. After vacuuming, we recommend using a cleaning glove (e.g. from Puratex) which can be lightly dampened with distilled water to wipe over the shell.

Remove dry dirt on the surface using a soft cloth or a soft brush. Use a cleaner for synthetic fibres to remove any stains. In the case of light soiling, spray the cleaner on a cloth and apply to the stain in a circular motion.

For more stubborn dirt, spray the cleaner directly onto the stain and leave to work for a while. Then use a cloth or brush to clean the affected area.

Afterwards, clean the shell with a clean cloth dampened with distilled water.



Never apply aggressive, solvent-based or abrasive cleaning agents to the non-woven material shell.

Disinfection

Be generous when spraying disinfectants onto contact surfaces. We recommend using products containing the following:

ethanol, biphenyl-2-ol, povidone 30, isopropyl myristate (PhEur), (hexadecyl/octadecyl) (2-ethylhexanoate), sorbitol solution 70%, crystallising (PhEur), 2-propanol (PhEur), purified water.

12.4 Mesh

Cleaning

Due to the open fabric, mesh covers are not particularly prone to attracting dirt but they should still be vacuumed regularly.

You may wish to occasionally clean the fabric with a spray extraction device. If so, make sure you clean the surface in its entirety. You will then need to suction up all the cleaning agent sprayed on (otherwise marks may be left behind).

Remove large patches of stubborn, dried-on dirt with a microfibre cloth dampened slightly with ten parts lukewarm water to one part mild detergent. Do not soak the fabric or get it too wet. Work quickly to clean large areas. Absorb any liquid straight away to avoid marks being left behind.



Do not use abrasive cleaning products containing disinfectants or bleach because they are harsh enough to cause the material to become brittle.

Disinfection



Do not use any chemical disinfectants, as they may change the colour and texture of the surface.



12.5 Artificial leather

Cleaning

Clean the material regularly with a microfibre cloth and a warm, mild soap solution. You could also use a soft brush if soiling is particularly stubborn. All traces of oil, grease and ink must be removed immediately. You may need to repeat the cleaning process if soiling is heavy.



Do not use care products designed for real leather, abrasive cleaning agents, organic solvents or preparations. Resoiling often occurs due to the use of conventional household detergents and cleaning agents.

Our **bologna** artificial leather has a washable vinyl/urethane coating. The coated surface is easy to clean – simply use a damp cloth and a mild soap solution (one part pH-neutral liquid soap to nine parts water). Remove any excess cleaning agent with a clean and damp white cloth. Dry the surface.

Remove stubborn stains (e.g. blood and urine) using a mixture of one part isopropyl alcohol to ten parts water. Soak a soft white cotton cloth in the recommended cleaning agent and wipe the stain ten times in a circular motion. Afterwards, rinse with clean water and dry. We do not recommend using this technique for everyday cleaning.



Do not use any soap or cleaning solutions containing alcohol, ketones, xylene, acetate or solvents (white spirit). Do not bleach. Do not use steel brushes, scourers or metal in any form because they may cause permanent damage to the fabric.

Disinfection

Our artificial leathers are disinfectant-resistant. We recommend the following disinfectants:

- Descogen Liquid
- Dismozon Plus 3.6%
- Incidin Pro
- Incidin Plus
- Microbac Forte 3%
- Terralin protect 2%

We recommend using the following products to disinfect the **bologna** fabric in our collection with a vinyl/urethane coating:

- Bacillol AF
- Descogen Liquid
- Dismozon Plus
- Incidin Liquid
- Incidin Plus 3%
- Microbac Forte

12.6 Leather

Cleaning

Clean leather covers regularly with a dry or slightly damp cloth. Gently wipe off light soiling with a soft cloth and a mild, neutral soap solution. Afterwards, wipe over to dry and apply a suitable leather care product while observing the manufacturer's instructions for use.



Do not use solvents, cleaning petrol, stain removers, spirit, shoe cream or the like.

Disinfection



Do not use any chemical cleaning products or disinfectants, as they may change the colour and texture of the surface.

13. Gliders and casters

Coarse dirt and deposits regularly need removing from gliders and casters. External factors, such as weight and humidity, can cause the gliders and casters to wear out or slip. The usual level of care is required when replacing the gliders/casters.

14. Hinges and joints

If mechanical moving parts start to produce noises, they should be treated with resin-free sewing machine oil. Tighten screws if necessary and remove metal debris with a damp cloth.



15. Material care outdoors

To prolong product life, we always recommend storing chairs and tables in a weather-protected area during the colder months of intense weather conditions. Thorough cleaning should be carried out on a regular basis. Please refer to the relevant section of this document for more information about thorough cleaning of the individual material parts.

Service and contact

For any questions or assistance, please feel free to get in touch with your usual contact or our service department at service@brunner-group.com. You can also find more information on our website (www.brunner-group.com) under the relevant product. We wish you many years of enjoyment from your Brunner furniture.