HOMAPAL® METAL DECORS

TECHNICAL DATASHEET COPPER AND BRASS DECORS- MANUAL DESIGNS



		490 Copper Antique	500/340* Brass Diamond Antique*	690/340 Copper Diamond Antique	500/491* Brass Plain Antique*	622G Copper Autumn Leaves
U SUGARA	Size a: 2440 x 1220 mm b: 3050 x 1220 mm	a, b	a, b	a, b	a, b	a
×	Thickness	1,3	1,3	1,3	1,3	1,3
Ō	Weight [kg/m²]	2,0	2,0	1,9	2,0	1,8
	Surface Material: Finish:	Copper UV	Brass UV	Copper UV	Brass UV	Copper UV
t	Balancing	009	009	009	009	002
AN A A A A	Tolerances Thickness: Length: Width: Flatness:	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m
	Postforming	not possible	not possible	not possible	not possible	not possible
	Processing	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pres- sure of 0,3 N/mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²
<u>د</u>	Max. temperature in use	80° C (short-term)	80° C (short-term)	80° C (short-term)	80° C (short-term)	80° C (short-term)
¥:	Health	harmless	harmless	harmless	harmless	harmless
\bigcirc	Rollable	yes	yes	yes	yes	yes
	Bending radius**	Product group 2	Product group 2	Product group 2	Product group 2	Product group 2

* vertical joint at abt. 610mm

** see separate data sheet

HOMAPAL® METAL DECORS

TECHNICAL DATASHEET COPPER AND BRASS DECORS- MANUAL DESIGNS



		635/502 Copper Moon Turquoise	636/502 Copper Moon Dark	637/502 Copper Moon Light	500/502* Brass Moon*	690/252 Copper New Crisp Antique
LANDARD D	Size a: 2440 x 1220 mm b: 3050 x 1220 mm	a	a	a	a	a, b
V	Thickness	1,3	1,3	1,3	1,3	1,3
ŏ	Weight [kg/m ²]	2,0	2,0	2,0	2,0	2,0
	Surface Material: Finish:	Copper UV	Copper UV	Copper UV	Brass UV	Copper UV
<u></u>	Balancing	009	009	009	009	009
And the second s	Toleranzen Thickness: Length: Width: Flatness:	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m
	Postforming	not possible	not possible	not possible	not possible	not possible
÷	Processing	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pres- sure of 0,3 N/mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²
<u>د</u>	Max. temperature in use	80° C (short-term)	80° C (short-term)	80° C (short-term)	80° C (short-term)	80° C (short-term)
	Health	harmless	harmless	harmless	harmless	harmless
\bigcirc	Rollable	yes	yes	yes	yes	yes
\succ	Bending radius**	Product group 2	Product group 2	Product group 2	Product group 2	Product group 4

* vertical joint at abt. 610mm

** see separate data sheet

HOMAPAL® METAL DECORS

TECHNICAL DATASHEET COPPER AND BRASS DECORS- MANUAL DESIGNS



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	CAT MALL	
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Red .	No. A March	





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		630 Kupfer Black Patinated	401/200 Copper Crush	401/229 Coppper Crush Stipple	695D Copper Stratos Diagonal
	ze 2440 x 1220 mm 3050 x 1220 mm	a	a, b	a, b	a, b
Th	ickness	1,3	1,3	1,3	1,3
We	eight [kg/m²]	2,0	2,0	2,0	2,0
Ма	I rface aterial: nish:	Copper UV	Copper UV	Copper UV	Copper UV
Ва	lancing	002	009	009	009
Thi Lei Wi	lerances ickness: ngth: dth: atness:	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m	±0,15 mm +100 mm/ -0 mm +100 mm/ -0 mm ≤ 100 mm/m
Po	stforming	not possible	not possible	not possible	not possible
Pro	ocessing	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²	at max. temperature of 60° C and max. pressure of 0,3 N/ mm ²
	ax. temperature use	80° C (short-term)	80° C (short-term)	80° C (short-term)	80° C (short-term)
He	alth	harmless	harmless	harmless	harmless
Ro	llable	yes	yes	yes	yes
Be	ending radius**	Product group 1	Product group 2	Product group 2	Product group 2

* vertical joint at abt. 610mm

** see separate data sheet

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HOMAPAL[®] METAL DECORS

TECHNICAL DATASHEET

COPPER AND BRASS DECORS-MANUAL DESIGNS





637/502 Copper Moon Liaht

500/502* Brass Moon*

690/252 **Copper New Crisp** Antique

630 **Copper Black** Patinated



401/229 695D Copper Crush Stipple

Copper Stratos Diagonal

GENERAL INFORMATION

HOMAPAL® Copper and Brass are decorative metal laminates with a surface material consisting of a thin, UV-laquer protected either copper or brass foil (see decors page 1-3).

Note:

The kraft paper core layers are impregnated with phenol-formaldehyde resin. The HOMAPAL® metal laminate consists of approx. 55% paper, 25% phenol-formaldehyde resin and 20% either copper or brass foil (see decors page 1-3).

The phenol-formaldehyde resin is irreversibly chemically cross-linked and forms a cured, stable material whose properties are fundamentally different to those of the raw materials.

HOMAPAL® metal laminate is manufactured under the simultaneous application of heat (> 120°C) and a high specific pressure (> 5 MPa).



CARE AND CLEANING

A soft, lint-free cloth and a mild cleaning agent should always be used for cleaning. Strongly alkaline, strongly acidic, or cleaning agents with abrasive components must not be used. Alternative cleaning agents should only be used after consultation with HOMAPAL Application Technology.

PROCESSING INFORMATION:

HOMAPAL® metal laminates can be sawn, drilled or milled as with all standard laminates (HPL), whereby the use of carbide-tipped cutting tools is recommended. The standard safety directives regarding dust extraction and fire protection are to be complied with during the processing and finishing of HPL.

Due to the fact that the material has very sharp edges, gloves and safety goggles should be worn. Precautions should be taken to prevent dust during processing and local regulations must be com-

APPLICATION AREAS

damp rooms is only possible to a limited extent, we cannot recommend it. You can learn more details from our applications engineering department on request.

plied with. When processing, always observe the same working direction, otherwise there will be changes in the appearance.

When cutting, the decor side should always be facing up.

SUBSTRATE:

All standard substrates suitable for laminates are also suitable for HOMAPAL[®] metal laminate. It is to be ensured that the moisture content of the substrate is not higher than that of the HOMAPAL® metal laminate (see storage and conditioning).



GLUEING

Commercially available adhesives and glues such as PVAC glue, two-component adhesives (epoxy) and neoprene contact adhesives are recommended. Exception: Urea bonding adhesives are not suitable. Comply with the manufacturer processing instructions in all cases. Never use water-based adhesives when applying moisture-proof materials. The moisture in the adhesive cannot dissipate and, therefore, the adhesive bond cannot dry.

REMARK MANUAL DESIGNS:

The surfaces of these decors are manufactured manually. Due to the high amount of manual labour only sheets of the same production lot (see date on the protective foil) should be used in the same application as slight differences might be possible.

HOMAPAL[®] METAL DECORS

TECHNICAL DATASHEET

COPPER AND BRASS DECORS- MANUAL DESIGNS





STORAGE AND CONDITIONING

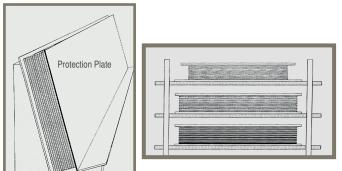
As with standard HPL products, HOMAPAL® metal laminate must also be stored in a closed storeroom protected against moisture and UV radiation. Storage should be in a standard climate, i.e. approx. 18-25°C and 50-60% relative humidity.

The panel is covered with a protective foil upon completion of the final inspection. Our protective foil is only a transport protection. This does not absolve you from a timely incoming inspection (prior inspection of colour, colour uniformity and other quality characteristics of the laminate). The protective foil has to be removed before further processing. The surface protected by the removable protective foil should not be exposed to light for a long time. There is a risk that the foil will become more difficult to remove. (Use top cover!) The protective foil is not impermeable to liquids.

To avoid changes to the adhesive strength of the protective foil on the panel surface, the storage temperature should not deviate from the above specified temperatures by more than ±10°C during longer storage periods.

Laminates are to be stored fully supported and horizontal. If this is not possible, positioning at an incline of approx. 80° with full-surface support and an abutment on the ground to prevent slipping is recommended. The best conditioning is achieved in the room climate of the later area of application. This conditioning is recommended because materials that are processed in an excessively moist condition will tend towards expansion over time, and materials that are too dry will tend towards shrinking. All materials should be conditioned together for at least 48 hours.

Note: Always carry panels flat to avoid bends and cracks in the surface.



Stipple

Î BALANCING

Stresses always arise between two different materials that are joined together. Therefore, a substrate must be covered on both sides with materials that are subject to the same dimensional changes under the influence of heat and moisture (conditioning of all materials). This applies in particular if the finished composite panel is to be self-supporting and is not held by a rigid construction. The larger the areas to be covered, the more attention is to be paid to the choice of the backing type, a symmetrical construction and the density and rigidity of the substrate. Our experience shows that substrates of a thickness </= 13 mm are critical in terms of the flatness of the composite element.

Fundamentally, factors such as the rigidity and symmetrical construction of the substrate, uniform appliance of adhesive and press temperature, as well as the size and angle of attachment of the object have an over-proportional influence here. The best results are always achieved through the use of the same laminate from the same manufacturer on both the front and rear sides. Both sides must always be glued to the substrate with the same running or finish direction on both sides (never at right-angles to each other).

To keep costs low, the use of second-choice laminates of the same material, or special backing material without the finish quality of the top layer is recommended. The use of other materials as backing cannot be recommended - even if the physical characteristics are as close as possible to those of HOMAPAL® metal laminate because the results can never be predicted with certainty.

HOMAPAL LAMINATE IN THE EVENT OF FIRE?

HOMAPAL® metal laminate is difficult to set on fire and has the property of delaying the spread of flames. In the event of incomplete combustion - as with any other material - the smoke may contain toxic substances.

The same fire-fighting techniques can be used on fires involving HOMAPAL® metal laminates that are used on wood-based building materials.

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HOMAPAL[®] METAL DECORS

TECHNICAL DATASHEET

500/340*

500/502*

Brass Moon*

Brass Diamond

COPPER AND BRASS DECORS- MANUAL DESIGNS





490

Copper Antique



637/502

Light

Copper Moon





690/252

Antique

Copper New Crisp

690/340

500/491 Brass Antique*

630

Copper Black

Patinated



401/200

Copper Crush

622G

Copper

Turquoise

401/229

Stipple

Copper Crush

635/502

Copper Moon





636/502

Dark

Copper Moon

695D

Copper Stratos Diagonal

FIRE AND EXPLOSION PROTECTION DATA

LASH POINTnoneTHERMAL DECOMPOSITIONPossible above 250°C. Toxic gases (carbon mono- xide, carbon dioxide) can be generated depending on the fire conditions (temperature, oxygen content, etc.).SMOKE AND TOXICITYHOMAPAL® metal laminate is classified as "s1" - which means no / hardly any smoke generation.FLAMIMABILITYHOMAPAL® metal laminate is classified as being of low flammability.EXTINGUISHING AGENTHOMAPAL® metal laminate has been assigned as Class A. Carbon dioxide, water jet or dry foam can be used to extinguish flames. Breathing apparatus and fire-protection clothing should be worn in the event of a fire.EXPLOSION HAZARDProcessing, sawing, sanding, milling generates dust of class ST-1. Standard safety precautions and ade- quate ventilation are to be ensured.EXPLOSION LIMITThe dust concentration should be treated in the same way as wood material in the event of explosi- ons or fire.		
THERMAL DECOMPOSITION Possible above 250°C. Toxic gases (carbon monoxide, carbon dioxide) can be generated depending on the fire conditions (temperature, oxygen content, etc.). SMOKE AND TOXICITY HOMAPAL® metal laminate is classified as "s1" - which means no / hardly any smoke generation. FLAMMABILITY HOMAPAL® metal laminate is classified as being of low flammability. EXTINGUISHING AGENT HOMAPAL® metal laminate has been assigned as Class A. Carbon dioxide, water jet or dry foam can be used to extinguish flames. Breathing apparatus and fire-protection clothing should be worn in the event of a fire. EXPLOSION HAZARD Processing, sawing, sanding, milling generates dust of class ST-1. Standard safety precautions and adequate ventilation are to be ensured. EXPLOSION LIMIT The dust concentration should be below 30 mg/m ⁹ . PROTECTION AGAINST HOMAPAL® metal laminate is not classified as a hazardous substance for transport. There are no special requirements. HEALTH ASPECTS HOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologically harmless. PENTACHLOROPHENOL HOMAPAL® metal laminate does not contain PCP. MISCELLANEOUS HOMAPAL® metal laminate is not a hazardous substance within the meaning of the regulation	IGNITION TEMPERATURE	Approx. 400°C
xide, carbon dioxide) can be generated depending on the fire conditions (temperature, oxygen content, etc.). SMOKE AND TOXICITY HOMAPAL® metal laminate is classified as "s1" - which means no / hardly any smoke generation. FLAMMABILITY HOMAPAL® metal laminate is classified as being of low flammability. EXTINGUISHING AGENT HOMAPAL® metal laminate is classified as being of low flammability. EXTINGUISHING AGENT HOMAPAL® metal laminate has been assigned as Class A. Carbon dioxide, water jet or dry foam can be used to extinguish flames. Breathing apparatus and fire-protection clothing should be worn in the event of a fire. EXPLOSION HAZARD Processing, sawing, sanding, milling generates dust of class ST-1. Standard safety precautions and ade- quate ventilation are to be ensured. EXPLOSION LIMIT The dust concentration should be below 30 mg/m³. PROTECTION AGAINST EXPLOSION AND FIRE HOMAPAL® metal laminate should be treated in the same way as wood material in the event of explosi- ons or fire. STORAGE AND TRANSPORT HOMAPAL® metal laminate is not classified as a ha- zardous substance for transport. There are no special requirements. HEALTH ASPECTS HOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologi- cally harmless. PENTACHLOROPHENOL HOMAPAL® metal laminate is not a hazardous subs- tance within the meaning of the regulation	LASH POINT	none
which means no / hardly any smoke generation.FLAMMABILITYHOMAPAL® metal laminate is classified as being of low flammability.EXTINGUISHING AGENTHOMAPAL® metal laminate has been assigned as Class A. Carbon dioxide, water jet or dry foam can be used to extinguish flames. Breathing apparatus and fire-protection clothing should be worn in the event of a fire.EXPLOSION HAZARDProcessing, sawing, sanding, milling generates dust of class ST-1. Standard safety precautions and ade- quate ventilation are to be ensured.EXPLOSION LIMITThe dust concentration should be below 30 mg/m³.PROTECTION AGAINST EXPLOSION AND FIREHOMAPAL® metal laminate is not classified as a ha- zardous substance for transport. There are no special requirements.HEALTH ASPECTSHOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologi- cally harmless.PENTACHLOROPHENOLHOMAPAL® metal laminate is not a hazardous subs- tance within the meaning of the regulation	THERMAL DECOMPOSITION	xide, carbon dioxide) can be generated depending on the fire conditions (temperature, oxygen content,
Initial InitialIow flammability.EXTINGUISHING AGENTHOMAPAL® metal laminate has been assigned as Class A. Carbon dioxide, water jet or dry foam can be used to extinguish flames. Breathing apparatus and fire-protection clothing should be worn in the event of a fire.EXPLOSION HAZARDProcessing, sawing, sanding, milling generates dust of class ST-1. Standard safety precautions and ade- quate ventilation are to be ensured.EXPLOSION LIMITThe dust concentration should be below 30 mg/m³.PROTECTION AGAINST EXPLOSION AND FIREHOMAPAL® metal laminate should be treated in the same way as wood material in the event of explosi- ons or fire.STORAGE AND TRANSPORTHOMAPAL® metal laminate is not classified as a ha- zardous substance for transport. There are no special requirements.HEALTH ASPECTSHOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologi- cally harmless.PENTACHLOROPHENOLHOMAPAL® metal laminate does not contain PCP.MISCELLANEOUSHOMAPAL® metal laminate is not a hazardous subs- tance within the meaning of the regulation	SMOKE AND TOXICITY	· · · · · · · · · · · · · · · · · · ·
Class A. Carbon dioxide, water jet or dry foam can be used to extinguish flames. Breathing apparatus and fire-protection clothing should be worn in the event of a fire.EXPLOSION HAZARDProcessing, sawing, sanding, milling generates dust of class ST-1. Standard safety precautions and ade- quate ventilation are to be ensured.EXPLOSION LIMITThe dust concentration should be below 30 mg/m³.PROTECTION AGAINST EXPLOSION AND FIREHOMAPAL® metal laminate should be treated in the same way as wood material in the event of explosi- ons or fire.STORAGE AND TRANSPORTHOMAPAL® metal laminate is not classified as a ha- zardous substance for transport. There are no special requirements.HEALTH ASPECTSHOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologi- cally harmless.PENTACHLOROPHENOLHOMAPAL® metal laminate is not contain PCP.MISCELLANEOUSHOMAPAL® metal laminate is not a hazardous subs- tance within the meaning of the regulation	FLAMMABILITY	
of class ST-1. Standard safety precautions and adequate ventilation are to be ensured.EXPLOSION LIMITThe dust concentration should be below 30 mg/m³.PROTECTION AGAINST EXPLOSION AND FIREHOMAPAL® metal laminate should be treated in the same way as wood material in the event of explosions or fire.STORAGE AND TRANSPORTHOMAPAL® metal laminate is not classified as a hazardous substance for transport. There are no special requirements.HEALTH ASPECTSHOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologi- cally harmless.PENTACHLOROPHENOLHOMAPAL® metal laminate is not a hazardous substance within the meaning of the regulation	EXTINGUISHING AGENT	Class A. Carbon dioxide, water jet or dry foam can be used to extinguish flames. Breathing apparatus and fire-protection clothing should be worn in the event
PROTECTION AGAINST HOMAPAL® metal laminate should be treated in the same way as wood material in the event of explosions or fire. STORAGE AND TRANSPORT HOMAPAL® metal laminate is not classified as a hazardous substance for transport. There are no special requirements. HEALTH ASPECTS HOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or ecc-toxic effects. The finish is physiologically harmless. PENTACHLOROPHENOL HOMAPAL® metal laminate does not contain PCP. MISCELLANEOUS HOMAPAL® metal laminate is not a hazardous substance within the meaning of the regulation	EXPLOSION HAZARD	of class ST-1. Standard safety precautions and ade-
EXPLOSION AND FIREsame way as wood material in the event of explosions or fire.STORAGE AND TRANSPORTHOMAPAL® metal laminate is not classified as a hazardous substance for transport. There are no special requirements.HEALTH ASPECTSHOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologically harmless.PENTACHLOROPHENOLHOMAPAL® metal laminate does not contain PCP.MISCELLANEOUSHOMAPAL® metal laminate is not a hazardous substance within the meaning of the regulation	EXPLOSION LIMIT	The dust concentration should be below 30 mg/m ³ .
HEALTH ASPECTS HOMAPAL® metal laminate is not classified as being hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologically harmless. PENTACHLOROPHENOL HOMAPAL® metal laminate does not contain PCP. MISCELLANEOUS HOMAPAL® metal laminate is not a hazardous substance does not contain PCP.	PROTECTION AGAINST EXPLOSION AND FIRE	same way as wood material in the event of explosi-
How and the people of animals. There is no evidence of toxic or ecc-toxic effects. The finish is physiologically harmless. PENTACHLOROPHENOL HOMAPAL® metal laminate does not contain PCP. MISCELLANEOUS HOMAPAL® metal laminate is not a hazardous substance within the meaning of the regulation	STORAGE AND TRANSPORT	zardous substance for transport. There are no special
MISCELLANEOUS HOMAPAL® metal laminate is not a hazardous substance within the meaning of the regulation	HEALTH ASPECTS	hazardous to people or animals. There is no evidence of toxic or eco-toxic effects. The finish is physiologi-
tance within the meaning of the regulation	PENTACHLOROPHENOL	HOMAPAL [®] metal laminate does not contain PCP.
	MISCELLANEOUS	tance within the meaning of the regulation

These specifications are based on our current knowledge and experience. They do not, however, exempt the processor from undertaking his own tests and examinations. A legally binding assurance of the properties or suitability for a specific purpose can not be derived from our specifications. We recommend the use of our technical advice service in the event of doubt. It is the responsibility of the processor of our products to observe any trade mark rights as well as all existing laws and regulations.

Status: August 2020

Resistance to fire:

HOMAPAL® metal laminates are flameresistant according to IMO Resolution MSC.307(88)-(FTP-Code 2010), Annex 1, Part 2*, Part 5. The products bear the "stearing wheel" logo and the US Coast Guard Approval no. 164.112/EC0736/118447-00. *) = not applicable.

Classification of resistance to fire as per DIN EN 13501-1:2010-01

HOMAPAL® metal laminates: B-s1-d0.

These properties apply exclusively to the laminates. Substrates and adhesives, etc. must be assessed searately. Please refer to our comprehensive technical information for more details on this.

Formaldehyde:

The HOMAPAL® metal collection is tested for the emission of formaldehyde in accordance with DIN EN 717-1. The results were significantly below the limit value - if detectable at all - stipulated by the German Chemicals Prohibition Ordinance and the German Health Authority for interior spaces.

ENVIRONMENTAL AND **HEALTH ASPECTS**

HOMAPAL® metal laminate is a cured and therefore inert thermosetting plastic with a metal foil. There are no migrations that afis harmless. The protective layer of the finish is resistant to household solvents and

HOMAPAL[®] metal laminate is a product and not a chemical substance, therefore the REACH Regulation does not apply.