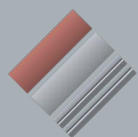


the max.

/TI 18

MAX Alumax
MAX Aluphenol
MAX Alucompact




Multiclad
Facade Systems

MAX
o n t o p



- TI 1: Tender recommendations.
- TI 3: Working with MAX Compact Laminates and MAX Compactforming Elements.
- TI 4: Cubicles made of MAX Compact Laminates and MAX Compactforming Elements.
- TI 5: Furnishing Objects and wall protection with MAX Compact Laminates and MAX Compactforming Elements.
- TI 6: Properties, Fire Behaviour, Resistance against Chemicals, Cleaning of MAX High-Pressure Laminates (HPL) and MAX Compact Laminates (HPL).
- TI 7: MAX EXTERIOR, for Balconies and Railings.
- TI 8: MAX Perforated Panels.
- TI 9: MAX Metal Laminates.
- TI 10: Working with MAX High-Pressure Laminates (HPL).
- TI 11: Stair Railings and Filler Panels made from MAX Compact Elements and MAX Compactforming Elements.
- TI 12: MAX EXTERIOR, Façade and Wall Cladding.
- TI 16: Tender Specifications for Cubicles and Shower Units of MAX Compact Laminates.
- TI 18: MAX Alumax, MAX Aluphenol and MAX Alucompact.

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The graphics used in our technical information are schematic representations.

Description of materials

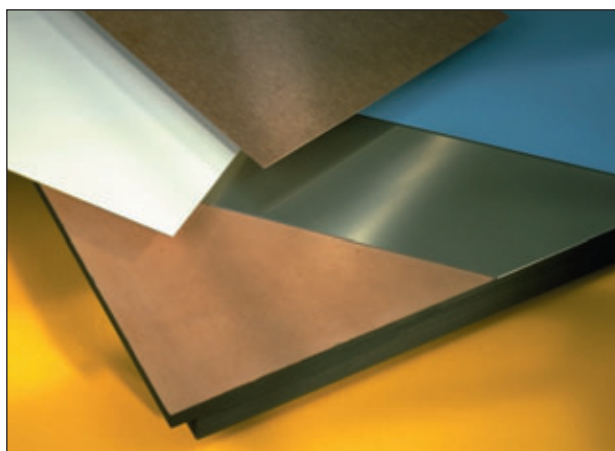
MAX laminates with aluminium layers are high-pressure composite materials based on durable high-pressure laminates (HPL) according to European Standard EN 438. Using aluminium strips inside the core of the laminate gives it stability and tensile strength even though the laminate is thin and lightweight. MAX laminates with aluminium inserts can still be easily sawn, routed and drilled.

MAX Alumax and MAX Aluphenol are also suitable for punching. These laminates are completely vapour-tight thanks to the integrated aluminium layer.

They have a high resistance to impact, low susceptibility to splintering, and good thermal dissipation properties. Another excellent characteristic of MAX laminates with aluminium inserts is their high resistance to fluctuations in climate.

MAX Alumax laminates have the same inherent surface properties of all MAX laminates; they integrate seamlessly into the MAX products colour scheme.

MAX laminates with aluminium inserts are physiologically sound and can be disposed of safely at designated trade disposal sites.



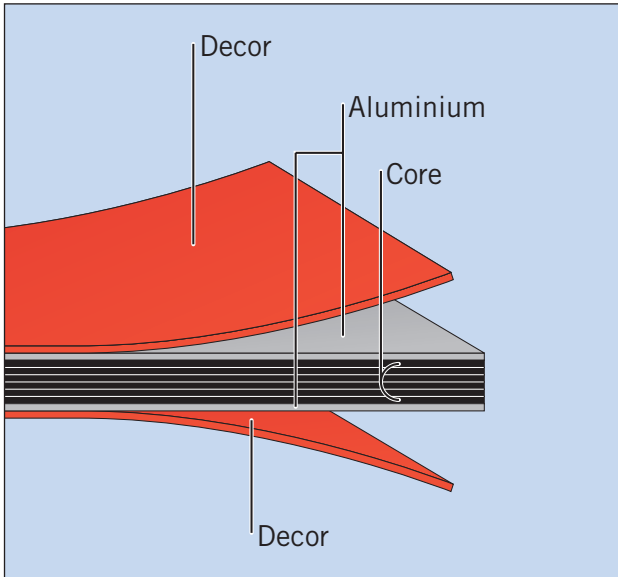
Design features

	Aluphenol 42	Alumax 42	Alucompact2	Alucompact Arrigo	Alucompact3	Alucompact Marc	Alucompact4
Decor both sides			X	X	X	X	X
Decor one side, with pol. melamine backing		X	X (3-4 mm)				
Without decor	X						
Laminate thickness in mm	1,2	1,4	3 - 20 mm	8, 10, 12			
Thickness tolerance in mm	±0,15	±0,15	3 mm ±0,20 4 mm ±0,25 5 mm ±0,30 ≥ 5 mm ±5%	±5%			
Format in mm	TK = 2140x1060 G = 2800x1300 J = 4100x1300			TK (FH, PO, MT) G (FH, PO, TM, MT) J (FH, PO)			
Surfaces	Sanded	FH, P					
Alu-thickness in mm	0,42	0,42	0,42 (2 per laminate)	0,42 (2 per laminate)	0,42 (3 per laminate)	0,42 (3 per laminate)	0,42 (4 per laminate)

See current collection for colours
X = Design available

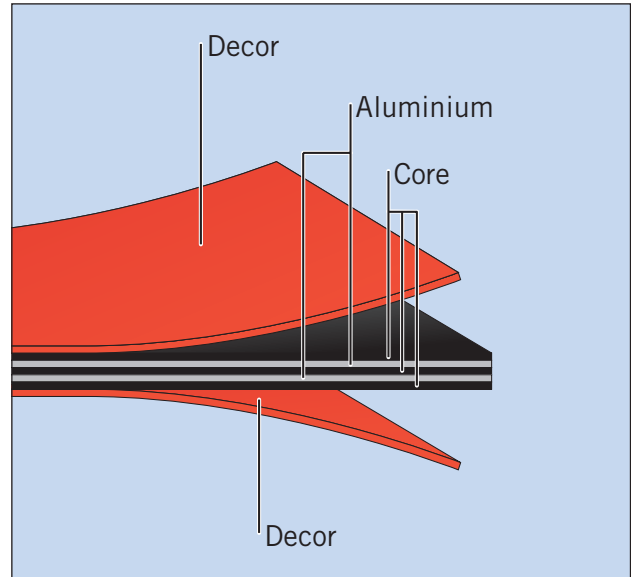
Manufactured to order

Description of each design and their applications



■ **MAX Alucompact2 laminates** features symmetrically-arranged aluminium layers under each decorative surface. The aluminium layers give the laminate extremely high tensile strength and rigidity. Examples of applications for MAX Alucompact2 include decorative perforated panels used in banisters, or doors in showers.

Also available as MAX EXTERIOR Alucompact with NT surface finish for high-duty applications outdoors (brown core).



■ **MAX Alucompact Arrigo** is a compact laminate with two decorative aluminium layers (each 0.42 mm thick), distributed evenly throughout the core of the laminate, not just under the surface as with MAX Alucompact laminates.

There are no special requirements regarding strength - the aluminium layers serve mainly a design function.

Routing, bevelling and polishing open up new design ideas for visible edges.



MAX Alucompact2

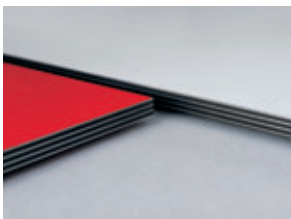
5 different Alucompact Laminates available.



MAX Alucompact3



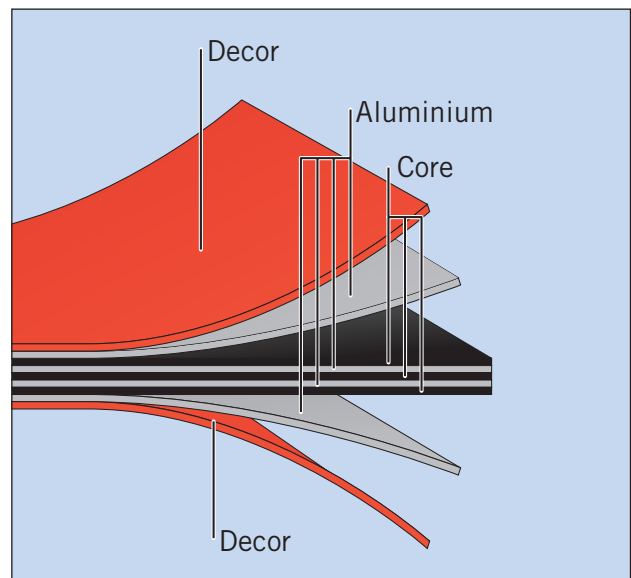
MAX Alucompact Marc



MAX Alucompact4



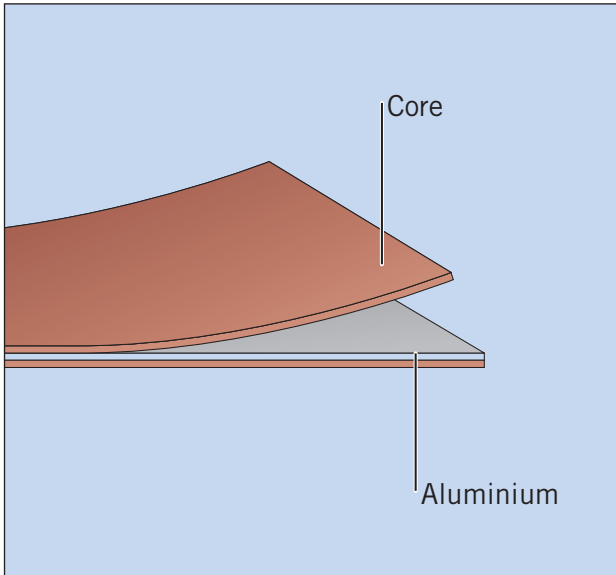
MAX Alucompact Arrigo



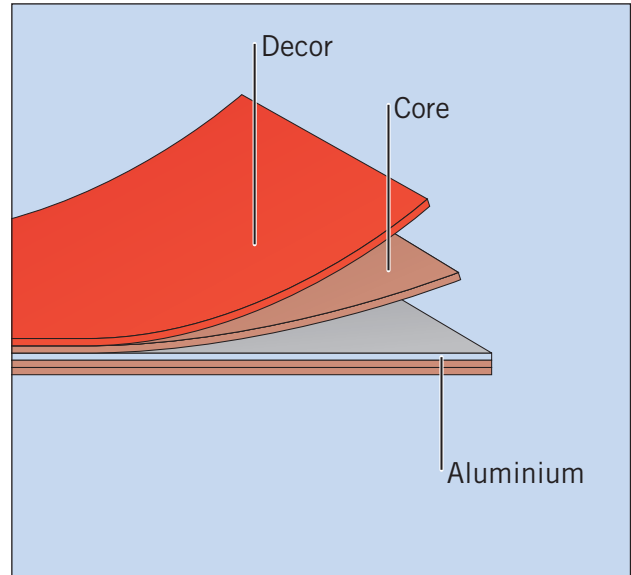
■ **MAX Alucompact4** is a compact laminate with four decorative reinforcing aluminium layers (each 0.4 mm thick). Angled routing, bevelling and polishing open up new options for visible edges. MAX Alucompact4 is basically the same composition as the MAX Alucompact laminate except that here two additional aluminium layers are arranged so that the core is divided into strips of equal thickness.

Please contact us if you are interested in these products.

Description of each design and their applications



■ **MAX Aluphenol 42** is sanded on both sides, approximately 1.2 mm thick and is designed as a backing for decorative laminates. The laminate is used for doors in the same way as MAX Alumax 42 which can be veneered, painted or foil-coated. The stabilising effect increases in proportion to the distance between the aluminium layers. MAX Aluphenol 42 is suitable for use between wood materials such as fibreboard and blockboard. Its advantage - apart from good structural rigidity - is that it can be bonded with wood materials using PVAc wood adhesives.



■ **MAX Alumax 42** with sanded backing is approx. 1.4 mm thick and can be bonded in the same way as any standard MAX laminate. These laminates are used in doors requiring extra rigidity, bonded on both sides. MAX Alumax laminates provide reinforcement thanks to the aluminium which is insensitive to ambient humidity, stabilising the door panel to prevent deformation through changes in climatic conditions (ON EN 79: climate category III 23°C 30% RH to 3°C 80% RH). Can be used for external doors, front doors, doors for wet rooms, etc.

Please contact us if you are interested in these products.

Notes on processing:

- Sawing: e.g. Leitz-HM saw blade WK 452-2-37, dia. 250-370 mm, or Leitz-HM saw blade WK 872-2-87, n = 4000 rpm, feed 5 to 10 m/min
WK 872-2-87, n = 4000 min-1, feed 5-10 m/min
- CNC router: e.g. HM router bit, continuous cut, dia. 10 mm, n = 12,000 rpm, feed 1.5 m/min
- Bonding: Polished MAX Alumax and MAX Aluphenol surfaces can be bonded with standard adhesives in the same way as normal MAX laminates.
Make sure that bonding temperatures are kept as low as possible. Excessive thermal expansion during bonding can lead to extreme stress at the corners and edges of larger surfaces.
See also Technical Information 3 and 10.
Bonding temperature < 70°
Clamping time approx. 5 min.
Principally as cool and as fast as possible, depending on the bonding system.
- Note that only a minimum quantity of adhesive should be applied to MAX Aluphenol laminates in order to avoid glue stains. MAX laminates can only be bonded with MAX Aluphenol surfaces using hardening adhesive systems (PUR, epoxy resin), see our Technical Information No. 3.

ISOMAX guarantees the quality of MAX Alumax, MAX Aluphenol and MAX Alucompact when used within the values and standards specified in this Technical Information.

ISOMAX expressly accepts no liability for damage to the surface or substructure caused during processing or installation as these processes are outside our control. It is essential that local regulations in force at the workplace are complied with. All details relate to the current "state-of-the-art". Suitability for specific applications as a rule, is not guaranteed.

Physical Data

		Aluphenol 42	Alumax 42	Alucompact 2	Alucompact Arrigo	Alucompact 3	Alucompact Marc	Alucompact 4
Thickness	mm	1,2	1,4	6,0	10	10	10	10
Approx. weight	Kg/m ²	1,9	1,8	9,7	15,5	16	16	16,5
Resistance to bending (DIN 53455)	MPa	170 135	170 135	>180	>180	>180	>180	>180
E Modulus		-	-	>18000	>18000	>18000	>18000	>18000
Impact stress ON EN 438/2	N	40	40	-	-	-	-	-
Dimens. stability at elev. temperature ON EN 438/2	lengthwise	%	0,05	0,03	0,15	*	*	*
	crosswise	%	0,10	0,05	0,25			
Boiling in water	Increase in weight	%	4,0	2,0	1,0	*	*	*
	Swelling at edges	%	5,0	3,0	1,5			
Diffusion resistance factor (same as alu)		approx. 730.000						
Fire resistance as per ÖNORM B 3800/resp. DIN 4102		B2						
Surface finish quality as per ON EN 438 see Technical Information No. 6								

* These grades are suitable for interior cladding only. To prevent cracks forming between the core and aluminium layers it is important that the laminates are not subjected to extreme changes in ambient temperature and humidity (recommended range +15 to +35 °C, 30 to 70 % relative humidity).

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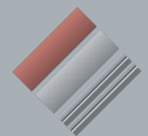
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