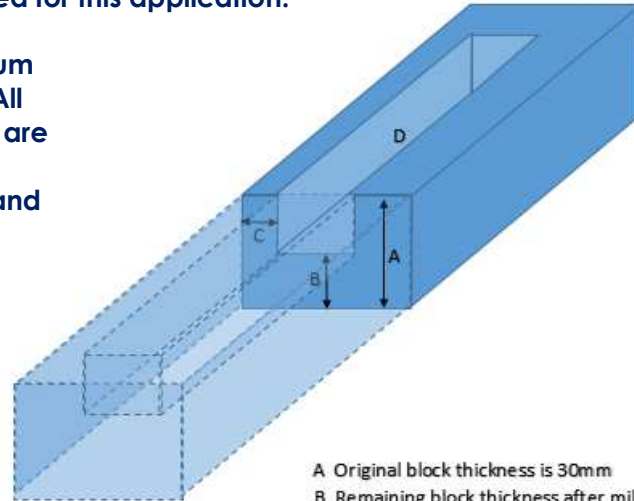


ALTUGLAS® CN BLOCK LED SYSTEM

The Altuglas® CN Block LED system is specially designed for illuminated signage with target to build-in LED's. This option for illuminated-block-letters is pushing illuminated signage to a higher level in its appearance.

The block LED system range composition is really optimised to be used with build-in LED's, diffusing and hiding power properties are maximised for this application.

It is recommended to respect maximum build-in depth for the LED's of 10mm. All optimum block LED system properties are secured in the remaining 20mm. This needs to be respected towards front and side of the letter.



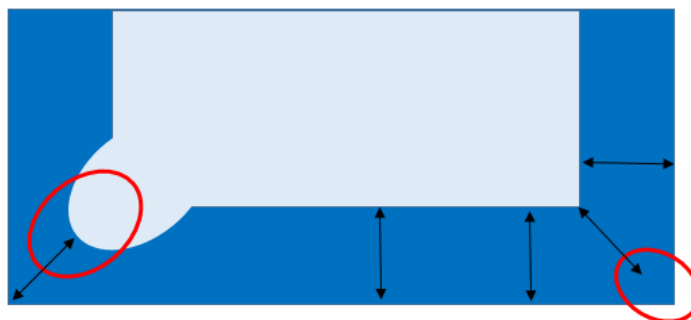
- A Original block thickness is 30mm
- B Remaining block thickness after milling min. 20mm
- C Remaining thickness at sides min 20mm
- D Space to build in LED's (max 10mm in depth)

The level of light transmission as it is known for translucent sheets is identical to block LED system, with the same colour reference, at the remaining 20mm. In case full block thickness is used, light transmission will be lower than same colour reference in sheet.

The 'ease' of use Altuglas Block-LED system for illuminated block letters is mainly at the fabrication of the sign. A single machining step is sufficient to prepare the PMMA base of the sign. By using a CNC router it is possible to convert, in a single step, the original Altuglas Block led into finished letter ready to build in the LED.

Optimisation Block letter Illumination:

In case of complex letter shape or uneven illumination in the corner, it is optional to manipulate light transmission via dedicated milling. However do keep in mind the minimum recommendation block material thickness.



reduced material thickness, giving higher LT in corner.

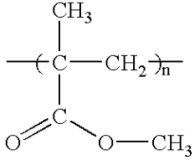
potential uneven illumination of this corner: material thickness is more then rest of letter.

ALTUGLAS® CN BLOCK

ADVANTAGES

- Aesthetic – Easy integration in city centres and malls
- Very good transmission and diffusion of the light
- Easy Machining – Reduction of the cost – Fast and automatized.
- Easy to mix with other products (metal, opaque film, wood,...)
- Complex shapes and thin letters are achievable

MAIN PROPERTIES

PMMA (Polymethylmethacrylate)	
Light	
Optimised diffusion	
UV resistant - No Yellowing	
Easy machining	
Cost reduction	



MAIN APPLICATIONS

- signage (illuminated block letter)
- furniture (Illuminated or not)
- shop fitting
- POP / POS

PACKAGING

- our standard film offers a strong adhesion thanks to an additional adhesive layer.
- our product is stored on wood pallets with a PP sheet at the bottom and a cardboard at the top
- the total weight of the pallet + blocks is less than one ton

STORAGE

The following rules has to be applied

- store the product in a dry place, indoors
- place a polyethylene cover over the stack when a sheet is removed, to reduce moisture absorption.
- only use original delivery pallets
- stack pallets of the same size and design to prevent waving
- place pallets on even surfaces (floor or shelf)
- the durability of the protective film is limited (sensitive to UV, temperature, humidity and chemicals)

CERTIFICATES

- at block production we rely to the sheet norm ISO 7823-1 2003, where relevant regarding types, dimensions and characteristics
- our management system fulfils the requirements of the ISO 9001 : 2008

ALTUGLAS® CN BLOCK

TECHNICAL SPECIFICATIONS

	Measurement Method	Unit	Value
General Characteristics			
Density	ISO 1183	g/cm ³	1.19
Water absorption (24h)	ISO 62	%	0.3
Water absorption (8 days)	ISO 62	%	0.5
Thickness tolerance (30mm) <small>tolerance other thickness on request</small>		%	± 5
Mechanical properties			
Modulus of elasticity (23°C)	ISO 527-2	MPa	3300
Surface hardness (Rockwell scale M)	IS 2039	-	100
Thermal properties			
Vicat softening point (B50)	ISO 306	°C	115
Coefficient of linear expansion	ISO 11359	mm/m/°C	0.065
Maximum continuous service temperature	-	°C	85
Maximum heating temperature	-	°C	200
Forming temperature	-	°C	165-190
Flammability			
Self-ignition temperature	-	°C	~ 450
Melt behaviour when burning	-	-	Non drip
Glow wire resistance	EN 60695-2-11	°C	750
Euroclass classification	EN 13501	-	E
UL	UL 94	-	HB

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <http://www.arkema.com/en/products/product-safety/disclaimer/index.html>

See MSDS for Health & Safety Considerations