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El Acero Vitrificado en entornos Educativos

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Combinación de superficie brillo y mate – Unv. CUNEF Madrid

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Decoración y diseño (Serigrafías)

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Muros de Escritura

Proyección, uso de imanes y 100% ecológica y reciclable

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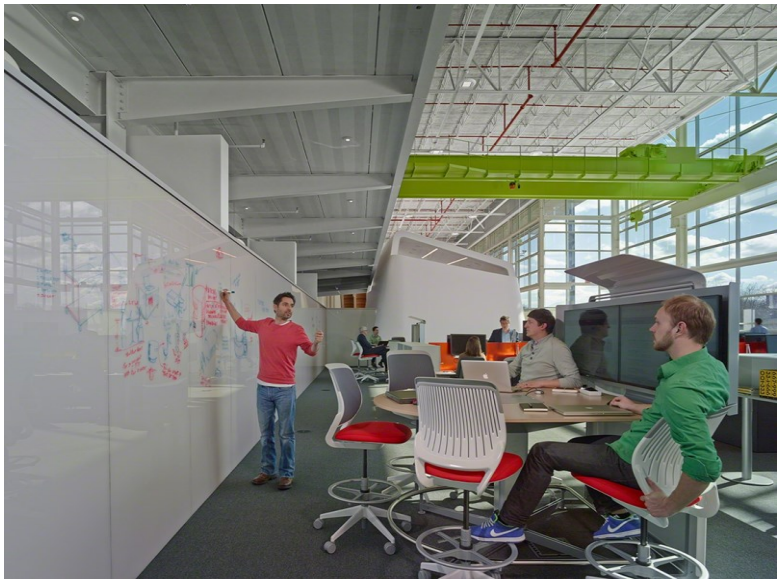
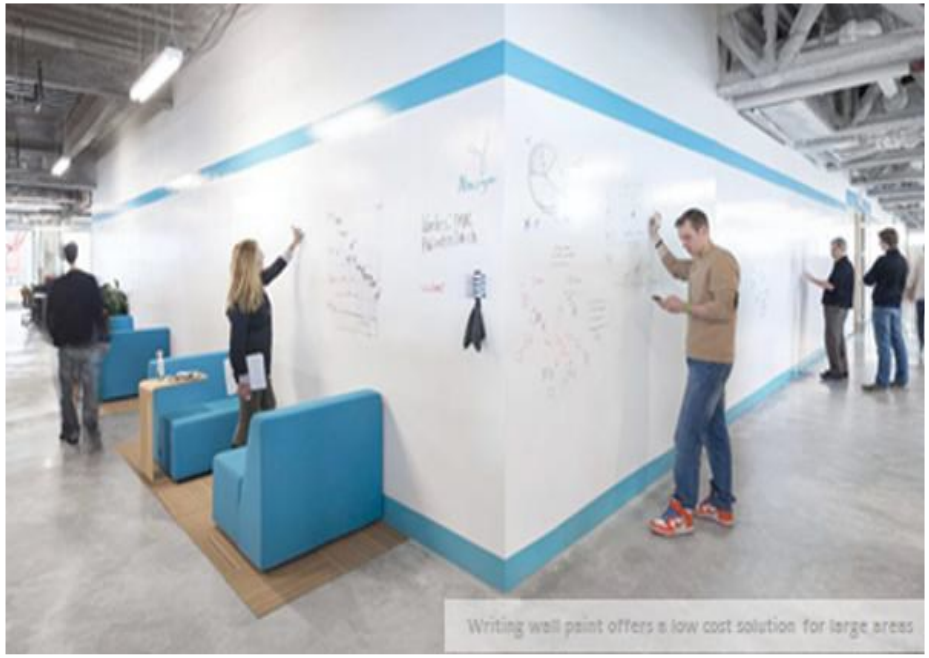
Muros de Escritura





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Soluciones múltiples

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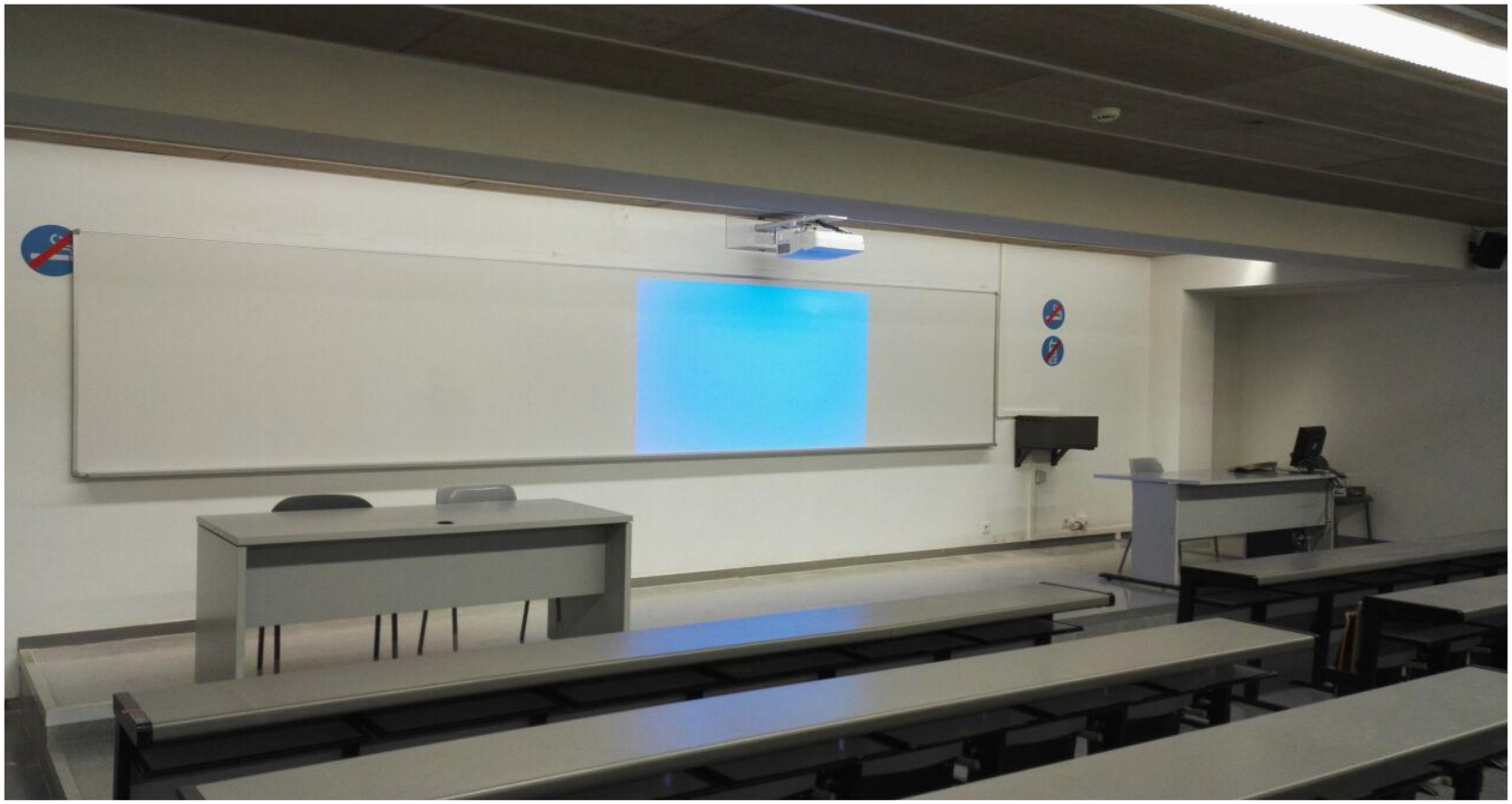
Pizarras y franjas de escritura

tamaños especiales de hasta 8m – Univ. Barcelona



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PIZARRAS
Muro interactivos

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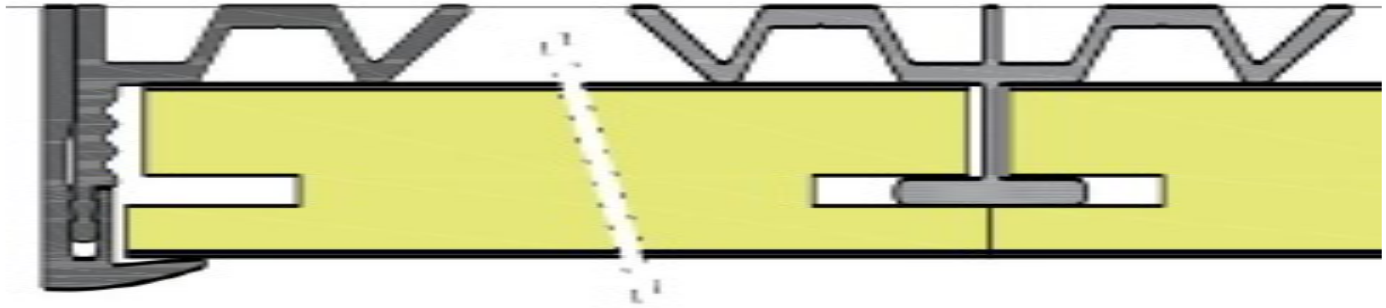
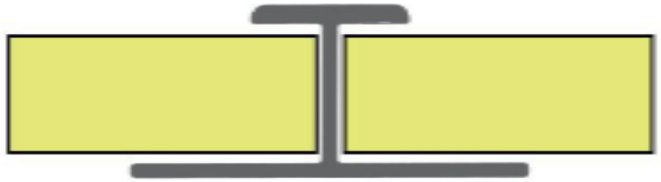
SISTEMA DE FIJACIÓN
para Muros y Franjas de Escritura

PERFIL PERIMETRAL



PERFIL DE UNIÓN



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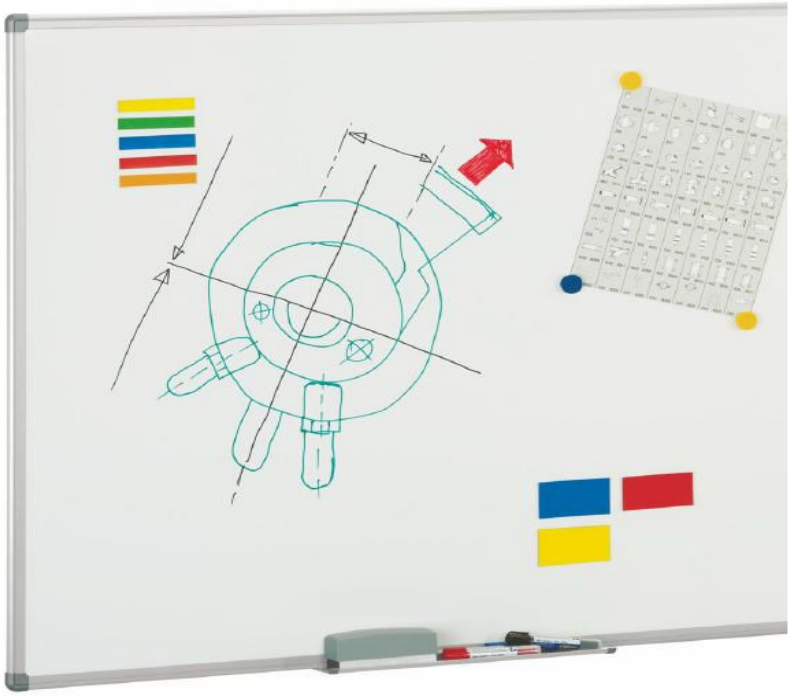
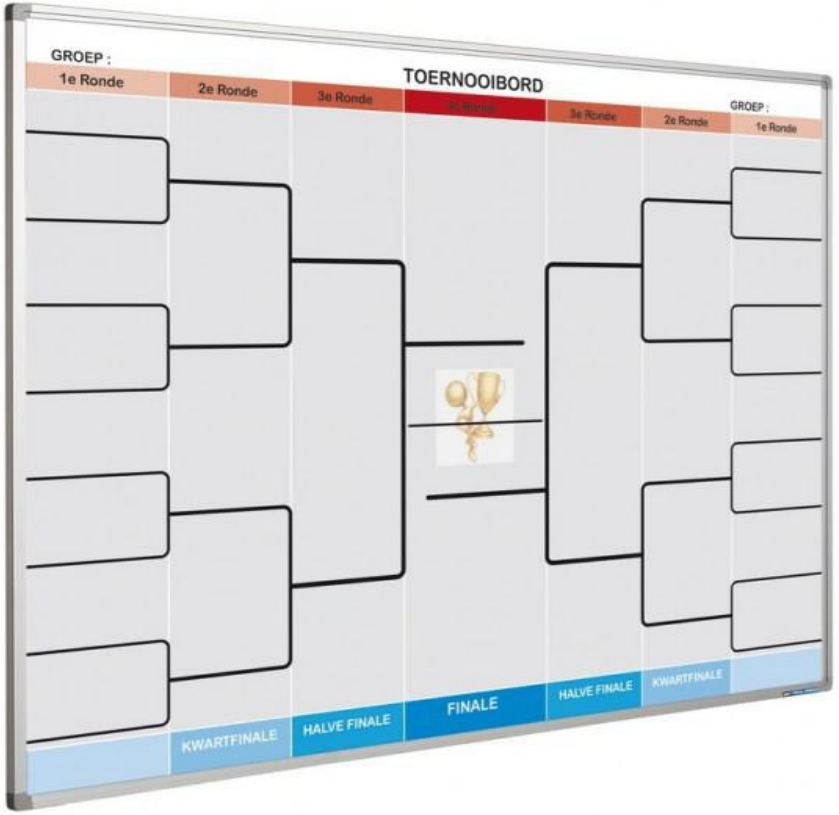
PIZARRAS

Base para rotulador y posibilidad de serigrafía





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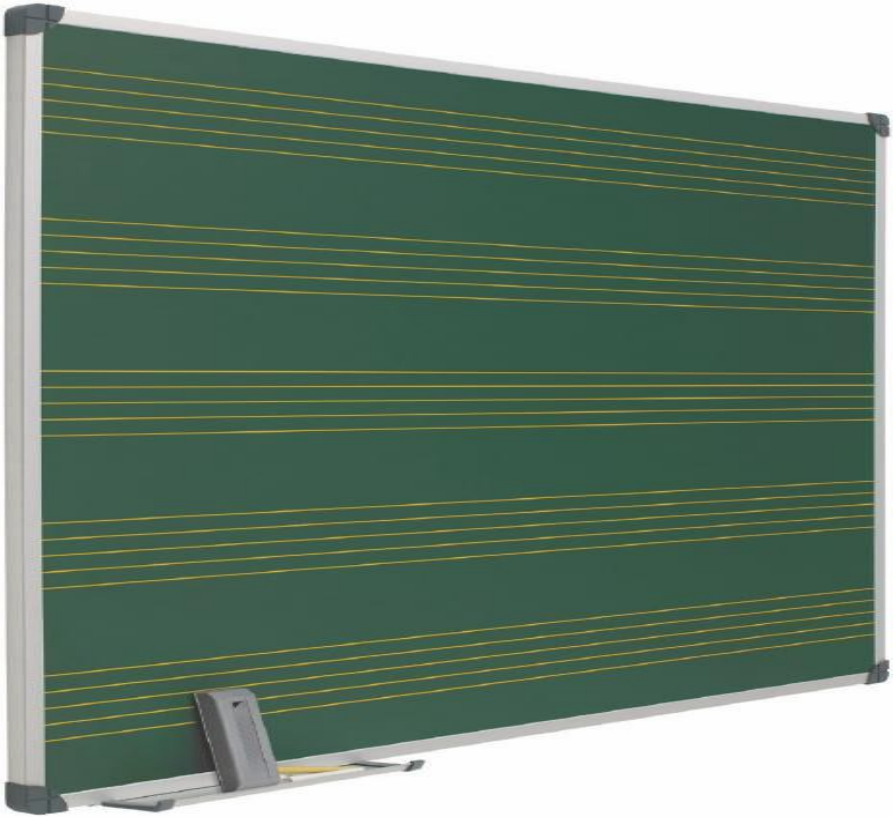
PIZARRAS

Acero Vitrificado en TIZA



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PROPIEDADES DEL ACERO VITRIFICADO

ENLACES:

Prueba de pizarras

https://www.youtube.com/watch?v=hZo4mW2ZFh8

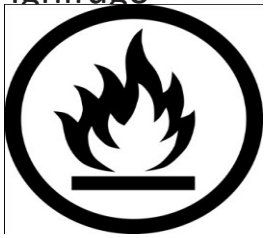
https://www.youtube.com/watch?v=kyh6oocXaQQ

Antiácidos

Antirralladuras

Antibacterias

Ignífugo



Antigrafitis

Antipintura

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CERTIFICADOS

POLYVISION
A Steelcase Company

PolyVision N.V.
Zuiderring 56
B-3600 Genk, Belgium
Tel. +32(0)89-32 31 30
Fax +32(0)89-32 31 31
www.polyvision.com

POLYVISION
A Steelcase Company

CERTIFICATE

GUARANTEE CONDITIONS

1. This guarantee covers, in accordance with the following conditions, all faults in the supplied goods occurring within a period of 10 years of the delivery date mentioned on this certificate, as a result of corrosion of the materials and/or construction due to defects in the construction work, manufacturing or materials used.

2. This guarantee covers the costs of repair work, redelivery and replacement. Provided that the delivery price includes assembly costs, all eventual disassembly or reassembly costs are included in the guarantee.

3. Are expressly excluded from the guarantee all damages due to:
   - mechanical or violent causes;
   - public legislation and work or molestation resulting from this;
   - natural forces, such as storms, lightning, and similar, as well as nuclear reactions;
   - faults in underlying construction(s), subsidence and such;
   - noncompliance or untimely compliance with maintenance prescriptions.

4. This guarantee becomes void if any subsequent work, modifications or repairs are completed by third parties without the prior consent of PolyVision N.V. or one of its co-insured branches.

5. In the event of damage, repair costs are reimbursed maximally up to the (indexed) original contract price. Repairs are depreciated at the annual rate of 5%.

6. These conditions are subject to the currently valid insurance policy concluded by PolyVision N.V. with Hannover International Insurance (nederland) N.V. of Rotterdam, and were drawn up in the Dutch language. Conditions of guarantee will always be determined in accordance with the modalities of this policy. The conditions of the policy will be submitted on request.

POLYVISION N.V.
GENK, BELGIUM

POLYVISION A/S
ODENSE, DENMARK

POLYVISION S.A.
CRESPIN - FRANCE

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Forever Warranty™

POLYVISION FOREVER WARRANTY

PolyVision warrants that the *e³ environmental ceramicsteel*™ writing surface in all visual display products sold by PolyVision will retain its writing and erasing qualities and maintain its gloss variance and color consistency for the life of the building or for as long as the product is in use, whichever comes first.

Should any failure to conform to this warranty become apparent, then, upon written notice from the Customer, PolyVision, at its option, will correct such non-conformity by repair or replacement. Correction in the manner provided above shall constitute a fulfillment of all liabilities of PolyVision with respect to the quality of the *e³ environmental ceramicsteel* writing surface. The warranty is only applicable under normal usage and maintenance and does not cover defects caused by improper handling, vandalism or abuse, or arising from the failure to follow PolyVision's instructions and recommendations for maintenance.

The warranty is voided if any modifications are made to the Products by the Customer or other trades with or without our written consent or prior knowledge. The warranty does not include the cost of removal or reinstallation. This warranty is effective as of June 4, 2009, and supersedes the terms and conditions of all prior surface warranties issued to the Customer by PolyVision.

THIS LIMITED WARRANTY IS THE SOLE REMEDY FOR PRODUCT DEFECTS AND NO OTHER EXPRESS OR IMPLIED WARRANTY IS PROVIDED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. POLYVISION SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM ANY PRODUCT DEFECT.

PolyVision
a steelcase company

bring learning to life™

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CERTIFICADOS

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Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Quality, Environmental and Occupational Health & Safety Management System of:

PolyVision N.V.
Zuiderring 56
3600 Genk
Belgium

has been approved by Lloyd's Register Quality Assurance to the following Management System Standards:

ISO 9001 : 2008 - ISO 14001 : 2004 - OHSAS 18001 : 2007

The Quality, Environmental and Occupational Health & Safety Management System is applicable to:

Research and development, production, distribution and sales of products, manufactured in a continuous enamelling process of thin gauge steel, also printing and firing of enamel pastes. The most important applications are:
- Products for visual communication
- Wall cladding

Approval Certificate No: ANT93131

Original ISO 9001 Approval	:	25 September 1990
Original ISO 14001 Approval	:	16 May 2004
Original OHSAS 18001 Approval	:	6 June 2008
Current Certificate	:	6 June 2014
Certificate Expiry	:	5 June 2017

Issued by: Lloyd's Register EMEA, Antwerp Office
for and on behalf of Lloyd's Register Quality Assurance Limited

UKAS MANAGEMENT SYSTEMS
001

Rijnkaai 37, 2000 Antwerp, Belgium
For and on behalf of Hiramford, Middlemarch Office Village, Siskin Drive, Coventry, CV3 4FJ, United Kingdom
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001

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MBDC

CRADLE TO CRADLE™
PRODUCT CERTIFICATION
SILVER
IS HEREBY GRANTED TO

POLYVISION CORPORATION
E3 ENVIRONMENTAL CERAMICSTEEL™ SURFACE

NOVEMBER 9, 2006

JAY BOLUS
VP BENCHMARKING & CERTIFICATION

ALLIANCE
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FICHA TÉCNICA SUPERFICIE ACERO VITRIFICADO

Superficie de pizarras para rotulador

– Tipo P3 LG –

DESCRIPCION

La superficie P3 de Alliance modelo P3 LG es un producto fabricado siguiendo las normativas de la norma ISO 9001 mediante un proceso continuo de producción, cuyo componente es una lamina de acero de alta calidad de 0.3 a 0.4 mm de espesor vitrificada por ambas caras. El modelo P3 LG se utiliza principalmente para pizarras magnéticas de rotulador.

VENTAJAS

La superficie vitrificada P3 LG de Alliance puede ser realizada en tres colores diferentes. Combinando un excelente contraste, facilidad de borrado en seco, una muy alta resistencia a los agentes químicos, alta resistencia a las ralladuras, durabilidad y larga vida del producto. Gracias a estas excelentes propiedades la facilidad de borrado se mantiene inalterable durante toda la vida del producto.
La superficie vitrificada P3 LG esta a la cabeza en aspectos medioambientales y permite ser reciclada. La superficie en si misma no es combustible y no produce humos en caso de incendio.
La superficie permite la adherencia de materiales magnéticos y la serigrafía de nombre, líneas, logos u otras informaciones.
Los rotuladores de escritura de borrado en seco son fácilmente borrados sin ningún problema, así como cualquier otro tipo de rotulador es eliminado sin problema. Gracias al proceso único de producción de P3 Ceramicsteel del modelo P3 LG, la ultra lisa superficie muestra una disminución importante de la reflexión de la luz. Mejora la visibilidad y tiene mayor facilidad de limpieza. Estas ventajas vienen a añadirse a los ya conocidos beneficios de las superficies de escritura de la generación precedente en acero vitrificado de Alliance.

ESPECIFICACIONES

La superficie blanca para pizarras es producida con una lamina de acero vitrificado en un proceso continuo a temperaturas a mas de 800 ° C
El brillo de la superficie debe de estar en el 70 % en mediciones a 20° de acuerdo con la norma ISO 2813.
La superficie blanca para pizarras debe tener entre 0.4 y 0.6 mm de espesor, ser incombustible y permitir la adhesión de materiales magnéticos.
La facilidad de limpieza de los rotuladores permanece inalterable durante toda la vida del producto.
De este modo la superficie cumple con los siguientes niveles de calidad.

Dureza de la superficie	EN 101	Min. 5
Resistencia a las ralladuras	ISO 15695	Min. 7 N
Resistencia al desgaste	ASTM C 501 (Abrasivo S 33/1 kg/1.000revs)	Max. 0.1 g
Resistencia a los ácidos	ISO 2722	Min .A
Facilidad de limpieza	SE 6.16/95	AE<0.5

La superficie cumple los requisitos exigidos por las normativas calidad de pizarras

MANTENIMIENTO
Las pizarras blanca de acero vitrificado P3 Ceramicsteel y en concreto el modelo P3 LG requieren un mínimo mantenimiento. Los rotuladores de escritura en seco son fácilmente borrados sin ningún tipo de problema.
Para tener mas detalles del mantenimiento pueden visitar nuestra pagina www.CleanMyBoard.com

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FICHA TÉCNICA SUPERFICIE ACERO VITRIFICADO

PROPIEDADES DE LA SUPERFICIE VITRIFICADA

P3 LG PARA PIZARRAS MAGNETICAS DE ROTULADOR

PROPIEDADES	SPECIFICACION	VALOR	RESULTADO
1. Espesor de la capa vitrificada	ISO 2178	110 um	
2. Espesor del acero		0.3 a 0.4 mm	
3. Espesor del vitrificado de la parte trasera	ISO 2178	35 um	
4. Espesor total		0.4 a 0.6 mm	
5. Peso		3 a 3.5 kg/m2	
6. Desviación de color	ISO 7724	AE =1.5 max.	
7. Brillo	ISO 2813 60º	70 %	
8. Dureza	EN- DIN 101	Min. 5	X
9. Agudeza visual (ByK- Gardner -wavescane + 5)	Wd (3-10 mm)	Max 20	X
10. Resistencia a las ralladuras	ISO 15695	Min. 7 N	X
11. Dureza a los lápices	ASTM D-3363	No se raya	
12. Resistencia al desgaste	ASTM C 501 (Abrasivo S 33/ 1 kg/1.000 revs)	Max 0.1 g	X
13. Resistencia a los impactos	ISO 4532 din 51155 (< 2 mm)	Min. 20 N	X
14. Resistencia a los ácidos	ISO 2722	Min. A	X
15. Test de Xenon	DIN 53389	Min. 8	X
16. Test para disolventes Metileno, alcohol etílico, petróleo Grasa, aceite, xileno	DIP 25º C, 1.000 Hrs	Sin cambios	X
17. Resistencia al fuego	DIN 4102	Incombustible Clase A1	X
18. Estabilidad del color	ASTM C 538	No hay cambio de color	X
19. Borrado en seco		Excelente	X
20.Borrado de rotuladores con base agua y su borrado con agua		Excelente	X
21. Borrado de escritura con rotuladores y su borrado con methanol		Excelente	X
22. Durabilidad	AEC 41809 Cambio de color Cambio de brillo		
23. Certificado de Calidad	SE 6.14/95 (VOM)	RG < 20% AE < 0.5	X
	DEZ 4.16.1 (94)	Completo	X
24. Certificado de Calidad ISO 9001	ISOO 9001	Completo	X