



TECPANELS
THE ART OF VOLUME
www.tecpanels.com

FICHA TÉCNICA TECPANELS

Tablero especial de fibras de madera, impregnadas de colorantes orgánicos y ligado químicamente con unas resinas de melanina.

Es un material hidrófugo y de gran dureza.

Densidad. Según norma EN323

Color. Pigmentado en masa (en crudo) y con laca de poliuretano de acuerdo a carta RAL o NCS.

Hidrófugo. Norma EN 317 .Hinchamiento después del ensayo cíclico 5%.

Cohesión interna después del ensayo cíclico N/mm² 0,15

Si se realizan cortes, se debe de aplicar un barniz protector en la parte cortada.

Resistencia mecánica. 30% superior al MDF. Gran resistencia a flexión.

Resistencia a la tracción (norma EN 319) 0,75 N/mm²

Resistencia a la Flexión (norma EN310) 28 N/mm²

Módulo de elasticidad en flexión (EN310) 2600 N/mm²

No tóxico. Baja emisión de formaldehído (Clasificación E1 según normas europeas).

Emisión de formaldehído según norma EN 120. Este tipo de tablero ha sido aprobado por las normas británicas para la utilización en la fabricación de juguetes y muebles para niños.

Valor ambiental. Fabricado con restos forestales y de carpinterías, con muy bajas emisiones de formaldehído.

Los pigmentos o colorantes son orgánicos y no se usan tintas. El fondo o imprimación usada es en base agua.

Reacción al fuego. UNE 23721 Clase M3

(Se puede fabricar en clase M1 bajo pedido y a otro precio)





CERTIFICAT DE CONSTANCE DE PERFORMANCES

1161-CPR-0190

Conformément au Règlement 305/2011/EU du Parlement européen et du Conseil du 9 mars 2011 (le Règlement des Produits de la Construction ou CPR), ce certificat s'applique au produit de construction

Panneau à base de bois MDF FIRAX
type MDF-LA E1 - FR-classe B-s1-d0 (EN13501-1:2007)
12 mm $\leq$ e $\leq$ 30 mm
Warringtonfiregent - rapport 16297D

produit par

Spanolux S.A.
Rue de la Forêt, 2
B 6690 Vielsalm

et fabriqué dans l'établissement de production

Spanolux S.A.
Rue de la Forêt, 2
B 6690 Vielsalm

Ce certificat atteste que toutes les dispositions concernant l'évaluation et la vérification de la constance des performances et les performances décrites dans l'annexe ZA de la norme

EN 13986: 2004

sous le système 1 sont appliquées et que

le produit satisfait toutes les exigences prescrites mentionnées ci-dessus.

Ce certificat a été émis le 15 mai 2004 et reste valable jusqu'au 16 décembre 2015 tant que les exigences pour les méthodes d'essai et/ou pour le contrôle de la production en usine reprises dans la norme harmonisée, utilisées pour évaluer les performances des caractéristiques déclarées, ne changent pas et pour autant que ni le produit, ni les conditions de fabrication dans l'établissement de production ne soient modifiées de manière significative.

Bruxelles, 10 janvier 2014

Ir. A. Grosfils
Directeur



Certificado

CERTIFICADO DE CONFORMIDADE CE

EC CERTIFICATE OF CONFORMITY

1328 – CPD – 0188

De acordo com a Directiva 89/106/CEE, de 21 de Dezembro de 1988, do Conselho das Comunidades Europeias, relativa à aproximação das disposições legislativas, regulamentares e administrativas dos Estados-membros no que respeita aos produtos de construção (Directiva dos Produtos de Construção – DPC), alterada pela Directiva 93/68/CEE do Conselho das Comunidades Europeias, de 22 de Julho de 1993, declara-se que o produto de construção

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive – CPD), amended by the directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product

PLACAS DE DERIVADOS DE MADEIRA WOOD-BASED PANELS

Placas de fibra de madeira para aplicações interiores como componente estrutural em ambiente húmido com características ignífugas (MDF.HLS)

Fibreboard fire retardant treated for internal use as structural components in humid conditions (MDF.HLS)

Gamas de espessura: ≥ 6 a ≤ 19 mm

Thickness range: ≥ 6 to ≤ 19 mm

Classe de reacção ao fogo: B-s2, d0

Reaction to fire classification: B-s2, d0

Classes de Formaldeído: E1

Formaldehyde classes: E1

colocado no mercado por / placed on the market by

Valbopan – Fibras de Madeira, S.A.

Quinta do Castelo – 2450-025 Famalicão da Nazaré – Portugal

e produzido na fábrica / and produced in the factory

Quinta do Castelo – 2450-025 Famalicão da Nazaré – Portugal

é submetido pelo fabricante a um controlo de produção na fábrica e a ensaios complementares de amostras colhidas na fábrica de acordo com um plano de ensaios pré-estabelecido, e que o organismo notificado - CERTIF Associação para a Certificação - realizou os ensaios iniciais de tipo para as características relevantes do produto, uma auditoria inicial à fábrica e ao controlo de produção, e efectua o acompanhamento contínuo, a avaliação e a aprovação do controlo da produção na fábrica. Este certificado atesta que todas as disposições relativas à comprovação da conformidade e ao desempenho do produto descritas no Anexo ZA da norma:

is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body - CERTIF Associação para a Certificação - has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard:

EN 13986:2004

foram consideradas e que o produto está conforme com os requisitos especificados.

Este certificado foi emitido pela primeira vez em 2011-04-18 e mantém-se válido desde que não se alterem significativamente as condições definidas na especificação técnica harmonizada ou as condições de fabrico e do controlo de produção na fábrica.

were applied and that the product fulfills all the prescribed requirements.

This certificate was first issued on 2011-04-18 and remains valid as long as the conditions laid down in the harmonized technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly.

Almada, 27 de Abril de 2011

Almada, 27th April 2011

Francisco Barroca
Director Geral / General Manager

Certif – Associação para a Certificação

Rua José Afonso, 9 E – 2810-237 Almada – Portugal – Tel.: 351. 21 258 69 40 – Fax: 351. 21 258 69 59



Certificate

SQS herewith certifies that the company named below fulfils the FSC® standards with regard to Chain of Custody (COC). The company below is authorized by this SQS certificate to process FSC products which are subject to full and complete controls and which originate from forests that are managed in accordance with the principles and criteria of the Forest Stewardship Council® (FSC). This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents. A list or description of the certified products can be obtained from the company named below or from SQS. The validity of this certificate shall be verified on www.info.fsc.org.



Valbopan – Fibras de Madeira SA
Quinta do Castelo
2450-025 Famalicão da Nazaré
Portugal

Certified area

Whole company incl. the site:
Investwood – Estudos de Consultoria
Empresarial, S.A., 1050-184 Lisboa, Portugal

Certified products

MDF boards and Valchromat boards

Normative base

FSC COC

Forest Stewardship Council – Chain of Custody

Standard reference: FSC-STD-40-004 (2.1)

FSC-STD-40-005 (2.1)

Certificate Code

SQS-COC-100540

FSC License Code

FSC® C101993

1996 Forest Stewardship Council A.C.
This certificate is the property of SQS.
All certificates and copies thereof must be
returned to SQS immediately on request.

Swiss Association for Quality and
Management Systems SQS
Bernstrasse 103, CH-3052 Zollikofen

Issue date: March 6, 2013
Expiry date: October 5, 2015
Scope number 6



X. Edelmann
X. Edelmann, President SQS

R. Glauser
R. Glauser, CEO SQS



Version: December 15, 2011





Flame Guard b.v.
Hulzenseweg 10-20 | 6534 AN Nijmegen | The Netherlands
P.O. Box 6572 | 6503 GB Nijmegen | The Netherlands
T +31 (0)24 37 89 581 | F +31 (0)24 37 87 583
info@flameguard.nl | www.flameguard.nl

Fortis Bank 24.47.30.865
BTW nr. NL 818074164801 | KvK 09171908

HCA 40 FOR VACUUM IMPREGNATION

HCA 40 IMP is a water-based, non-toxic fire-retardant liquid for treatment of wood through the vacuum-impregnation method.

PRODUCT INTRODUCTION

With the colour- and odourless formula of HCA 40 IMP all types of wood can be treated by means of vacuum-impregnation. Special components provide HCA 40 IMP with a very good penetrating capacity. Pinewood for example gives a result of about 3 mm to 20 mm penetration of the product.

HCA 40 IMP has a neutral pH-value, is environment- and user-friendly. It is non-toxic and does not irritate skin nor eyes. The Chemical Oxygen Demand (COD) is of a domestic waste level. As the ratio Biological Oxygen Demand (BOD)/Chemical Oxygen Demand (COD) is larger than 0,5, HCA 40 IMP can be regarded as bio-degradable.

APPLICATION

HCA 40 IMP can be used, amongst others, for pinewood, red cedar, oak, maple, ash, hardwood meranti, merbau, poplar and southern pine. The vacuum-pressure impregnation method is not applicable for pressed and composed materials like bamboo, MDF, chipboard and other board materials; consequently HCA 40 IMP cannot be used. For indoor applications of these materials the transparent coating HCA TR in combination with the finishing HCA TR VARNISH can be used.

Indoor application

Parts that are treated with HCA 40 IMP do not need a finish layer when they are applied in ceilings and in non-humid environments. To enhance the appearance of the surface, the treated parts can be finished with HCA 40 FINISH. HCA 40 FINISH does not harm or influence the fire-retardant quality. For more information please consult the corresponding information leaflet on HCA 40 FINISH.

Outdoor application

When treated wood is used outdoor, e.g. in front facades, it has to be finished with HCA 40 FINISH on all sides after the vacuum impregnation treatment. HCA 40 FINISH is available in transparent and in a variety of almost covering colours. A normal maintenance programme, of which the frequency depends on the weather influences, guarantees the preservation of the fire-retardant quality. For more information please consult the corresponding information leaflet on HCA 40 FINISH.

Quantity

The quantity to be applied depends on the required standard and the type of wood and can be provided by Flame Guard on request.

The wooden parts that have to be treated must be supplied in stacks for treatment. Drying can take

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place in a natural way or by using special drying rooms. Generally, a drying period of about 2-3 weeks has to be taken into account.

Materials that have been treated with HCA 40 IMP comply with the most severe national and international standards, like:

- NF P 92 501, class M1
- NEN 6065, class 1
- BS 476 part 7, class 1, BS 476 part 6, class 0
- NBN S 21-203, class A1

Moreover, treated parts have a very low heat-release and hardly contribute to the smoke production. The maximum smoke density for treated wood is $< 5 \text{ m}^{-1}$ according to the NEN 6066 standard.

TECHNICAL DATA, PACKAGING AND STORAGE

Density HCA 40 IMP:	$1.225 \pm 0.010 \text{ g/cm}^3$
Density(1:1 diluted):	$1.113 \pm 0.010 \text{ g/cm}^3$
pH value:	7.0 ± 1.0
Active material:	$380 \pm 30 \text{ g/kg}$
Melting range:	$< -15^\circ\text{C}$
Boiling range :	$> 100^\circ\text{C}$
Decomposition temperature:	$> 150^\circ\text{C}$
BOD/COD:	0,70
Ld50:	$> 5000 \text{ mg/kg}$
Packaging:	HCA 40 IMP or HCA 40 CONC is supplied as a concentrated product in cubytainers of 1225 kg to vacuum impregnation companies.
Storage/ shelf life:	Frost-free, at least 12 months in original and unopened package.

TRANSPORT AND PRECAUTIONS

Because of the composition of the product and results of toxicological research, HCA 40 IMP is considered non-hazardous and non-toxic. Therefore no specific regulations apply. In case of contact with eyes/skin it is recommended to rinse with water. Spilled product can be flushed with plenty of water.

These guidelines are merely meant as an advice. All values are indications and are the result of technical research and experience. No liability can be derived from it. With current issue of this information leaflet all former issues are expired.

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member of



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colocado no mercado por / placed on the market by

Valbopan – Fibras de Madeira, S.A.

Quinta do Castelo – 2450-025 Famalicão da Nazaré – Portugal

e produzido na fábrica / and produced in the factory

Quinta do Castelo – 2450-025 Famalicão da Nazaré – Portugal

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Almada, 27 de Abril de 2011

Almada, 27th April 2011



Francisco Barroca
Director Geral / General Manager

1. Description and Range

Valbopan® Medium Density Fibreboard

Valbopan MDF is a panel manufactured from pine wood fibers, bonded by synthetic resins through heat and pressure. The final product is a homogenous sheet, easy to cut and mold, with an even density and smooth surfaces.

It is available for load bearing applications in dry environments (MDF.LA), for load bearing applications in moist environments (MDF.H), and also with fire retardants properties (MDF.LA Fire Retardant).

Dimensions (mm)

3750x2500 | 3750x1250 | 2500x1850 | 2500x1250

Thicknesses (mm)

MDF.LA: 8 | 10 | 12 | 15 | 16 | 18 | 19 | 22 | 25 | 30 | 35

MDF.H: 10 | 12 | 15 | 16 | 18 | 19 | 22 | 25 | 30

MDF.LA Fire Retardant: 10 | 12 | 15 | 16 | 18 | 19 | 30

2. Properties

Nominal Thickness								
Features	Unit	>6-9	>9-12	>12-19	>19-30	>30-45	Standard	
Density	Kg/m³	800	780	750	730	690	EN 323	
Fire Reaction	MDF.LA	F		D-s2, d0			EN 13501	
	MDF.LA Fire Retardant	B-s2, d0						
Swelling (24 horas)	MDF.LA MDF.LA Fire Retardant	%	17	15	12	10	8	EN 317
	MDF.H	%	12	10	8	7	n/a	
Internal Bond	MDF.LA MDF.LA Fire Retardant	N/mm²	0,70	0,65	0,60	0,60	0,55	EN 319
	MDF.H	N/mm²	0,80	0,80	0,75	0,75	n/a	
Bending Strenght	MDF.LA MDF.LA Fire Retardant	N/mm²	29	27	25	23	21	EN 310
	MDF.H	N/mm²	27	26	24	22	n/a	
Modulus of Elasticity	MDF.LA MDF.LA Fire Retardant	N/mm²	3000	2800	2500	2300	2100	EN 310
	MDF.H	N/mm²	2700	2500	2400	2300	n/a	
Swelling After Cyclic Test	MDF.H	%	19	16	15	15	n/a	EN 321
Internal Bond After Cyclic Test	MDF.H	N/mm²	0,30	0,25	0,20	0,15	n/a	EN 321
Thickness Tolerance	mm	±0,2			±0,3			
Size Tolerance	mm/m	±2; máximo ±5						

3. Applications

Furniture | Coverings | Doors | Shopfitting | Stands | Others

4. Certifications

Valbopan, SA meets the requirements of the standard NP EN ISO 9001:2008.

Valbopan, SA holds a Certification of Chain of Responsibility (CoR), in accordance with the relevant standards, PEFC and FSC.

5. Advantages

Manufactured from renewable raw materials

Diverse range

Exempt from knots and wood veins

No sense of surface direction, unlike wood

Plane and dense surface

Even and homogenous edges

Excellent dimensional stability

High bending strength and internal bond

Excellent mechanical strength

Easy to machine, fix and finish

6. Instructions for use and application

Stack sheets horizontally with supports to avoid contact with the ground

Protect surfaces

Cut and machine with properly sharpened tools

Handle with care to avoid damaging edges and surfaces



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The mark of
responsible forestry

Valbopan – Fibras de Madeira SA **Quinta do Castelo** **2450-025 Famalicão da Nazaré** **Portugal**

Certified area

Whole company incl. the site:
Investwood – Estudos de Consultoria
Empresarial, S.A., 1050-184 Lisboa, Portugal

Certified products

MDF boards and Valchromat boards

Normative base

FSC COC

Forest Stewardship Council – Chain of Custody
Standard reference: FSC-STD-40-004 (2.1)
FSC-STD-40-005 (2.1)

Certificate Code

SQS-COC-100540

FSC License Code

FSC® C101993

1996 Forest Stewardship Council A.C.

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Swiss Association for Quality and
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Bernstrasse 103, CH-3052 Zollikofen

Issue date: March 6, 2013
Expiry date: October 5, 2015
Scope number 6



Trusted Cert

X. Edelmann

X. Edelmann, President SQS

R. Glauser

R. Glauser, CEO SQS



Version: December 15, 2011

