



Gámiz
Elaborados y Fabricados

Declaration of Performance

Nr. DOP-EYFG-RE-003

1. Unambiguous ID code of the product type: **VIGAM – Glued laminated timber made from oak without preservative treatment**
2. Intended use: **Structural or non structural elements in buildings and timber structures. Subjected to static or quasi static actions only.**
3. Manufacturer: **Elaborados y Fabricados Gámiz, S.A.
Ctra. Vitoria-Estella, 2
01110 Sta. Cruz de Campezo (Álava)
España**
4. Authorized representative: **No external authorized representative**
5. System for assessing and verifying the constancy of performance: **System 1**
- 6b. European Assessment Document: **0672-CPD-I 14.21.58**
European Technical Assessment: **ETA-13/0642**
Technical Assessment Body: **Österreichisches Institut für Bautechnik (ÖIB)**
Notified body: **Nº.: 0672**
7. Performance declared:

Essential characteristics		Performance
Mechanical properties as		
Modulus of elasticity:		
Bending strength	$f_{m,k}$:	33 MPa ^{1) 2)}
Tensile strength	$f_{t,0,k}$:	23 MPa
	$f_{t,90,k}$:	0,6 MPa
Compressive strength	$f_{c,0,k}$:	45 MPa ³⁾
	$f_{c,90,k}$:	8 MPa
Shear strength	$f_{v,k}$:	4 MPa

Inscrita en el Registro Mercantil de Álava, Tomo 549, Libro 0 de la sección 8ª, Folio 81, Hoja VI-2313, Inscripción 4ª – VAT No.: ESA01053420

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Stiffness Properties:	
Modulus of elasticity	<p>$E_{0,mean}$: 14 400 MPa</p> <p>$E_{0,05}$: 12 000 MPa</p> <p>$E_{90,mean}$: 800 MPa</p> <p>$E_{90,05}$: 660 MPa</p>
Shear modulus	<p>G_{mean}: 850 MPa</p> <p>$G_{0,05}$: 700 MPa</p>
Notes:	
<p>1) 1 MPa = 1 N/mm²</p> <p>2) The characteristic strength property for lamellas loaded in flat bending and H<400 mm may be multiplied by</p> $k_n = \min\left\{\left(\frac{400}{H}\right)^{0.14}; 1,1\right\}$ <p>3) For Service class 2 the characteristic value of compression strength shall be reduced by 1/3</p>	
Geometric data	<p>Widths ranging between 50 mm and 160 mm</p> <p>Heights ranging between 80 mm and 400 mm</p> <p>Lengths of up to 12 m</p> <p>The relevant product dimensions can be taken from the accompanying documents</p>
Dimensions and specifications of the boards	
Thickness (Planed dimension)	20 ± 2 mm
Boards shall be graded with visual procedure:	
Cover layer (≥ H/6 per side; min. 2 lamellas):	LS 13
Inner layer:	LS 10
Profile of finger joints:	min. 10 x 3,8 mm
Distance of finger joints:	300 hasta 1 200 mm
Bonding strength as	
Bending strength of finger joints	
- Paralel to the grain	$f_{m,j,k}$: LS 10: 49 MPa / LS 13: 51 MPa
Glue line integrity:	Delamination test pursuant to EN 14080, Annex C, Method B

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Durability of bonding strength as	
Species, Source Adhesive	European Oak (<i>Quercus robur</i> y <i>Quercus petraea</i>) France Adhesive for finger-joints: MUF, Type I Adhesive for surface bonding: MUF, Type I
Durability against biological attack as	
Natural durability class against wood stroying fungi EN 350-2	2
Fire resistance as	
Charring rate as <ul style="list-style-type: none">Charring of more layers than the cover layerCharacteristic densityEspecie de madera	β_n : 0,55 mm/min. 690 kg/m ³ Roble europeo (<i>Quercus robur</i> y <i>Quercus petraea</i>)
Reaction to fire as	
Reaction to fire class	D-s2, d0 Commission decision 2003/43/EG, as amended
Energy economy and heat retention	
Thermal conductivity, λ	0,18 W/(m·K)
Thermal inertia, Specific heat, c_p	1.600 J/(kg·K)
Emission of formaldehyde as	
Formaldehyde emission class	E 1
Release of other dangerous substances	
Release of other dangerous substances	Not relevant

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The performance of the above product conforms to the performance declared. The above named manufacturer is exclusively responsible for preparing the Declaration of Performance in accordance with Regulation EU/305/2011.

Signed on behalf of the manufacturer and in his name by:

Felix Flühöh (Chief Operating Officer)
(Name and function)

Sta. Cruz de Campezo (España), 01.07.2013
(Place & date of issue)



(Signature)

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Grupo Gámiz



Gámiz
Tamiños y Parquets



Gámiz
Maderas Gámiz Zuñiga



Gámiz
Maderas y Aserrados

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