

CERTIFICATE OF CONSTANCY OF PERFORMANCE

LGAI Technological Center, S.A. (APPLUS)
Notified Body Nr. 0370

No.

0370-CPR-1141

In compliance with Regulation (EU) Nr. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

STRUCTURAL BEARINGS. ELASTOMERIC BEARINGS

Placed on the market under the name of:

CAUCHO INDUSTRIAL VERDÚ, S.L.

POL. IND. SANTIAGO PAYÁ - C/ FILÀ BENIMERINS, 32
03802 ALCOY (ALICANTE) SPAIN

And produced in the manufacturing plant:

POL. IND. SANTIAGO PAYÁ - C/ FILÀ BENIMERINS, 32
03802 ALCOY (ALICANTE) SPAIN

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 1337-3:2005

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 18th February 2011 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed and modified on 10th May 2024.

The monitoring assessment will be done before 30th April 2025

Bellaterra, 10th May 2024




LGAI Technological Center, S.A.
Xavier Ruiz Peña
Managing Director, Product Conformity B.U.



This document is not valid without its technical annex; whose number coincides with that of the certificate.

You can check the validity of this certificate on our website: www.appluslaboratories.com/certified_products

The manufacturer, after the completion of the conformity assessment procedures and the declaration of performance, may affix the CE Marking under his responsibility

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Annex in accordance with **EN 1337-3:2005**

STRUCTURAL BEARINGS. PART 3: ELASTOMERIC BEARINGS

- STRUCTURAL ELASTOMERIC BEARINGS TYPE A, B, C AND F WITHOUT ANY SLIDING SURFACES OR ELEMENTS IN ACCORDANCE WITH ZA.1.a
- STRUCTURAL ELASTOMERIC BEARINGS TYPE D WITH SLIDING SURFACES IN ACCORDANCE WITH ZA.1b
- STRUCTURAL ELASTOMERIC BEARING TYPE E WITH SLIDING SURFACES OR ELEMENTS IN ACCORDANCE WITH ZA.1c
- TEMPERATURE OF WORK -40°C TO 50°C
- MAXIMUM DIMENSIONS 1200 X 1200 mm
 - ELASTOMER CR / NR
 - STEEL S235JR
 - SLIDING SURFACES PTFE
 - SURFACE PLANE INOX
 - LUBRICANT SILICON GREASE

REQUIREMENT	CLAUSE		RESULTS
LOAD BEARING CAPACITY	1337-3 CLAUSES		
	4.3.1	Shear modulus (ANNEX F, NORMATIVE)	
	4.3.1.1	Nominal T = 23 °C	PASS
	4.3.1.2	At low T = -25 °C	PASS
	4.3.1.3	At very low T (-40 °C 3 days)	PASS
	4.3.1.4	After ageing (3 days at 70 °C)	PASS
	4.3.2	Shear bond strength (ANNEX G, NORMATIVE)	
	4.3.2.1	Nominal T = 23 °C	PASS
	4.3.2.2	After ageing (3 days at 70 °C)	PASS
	4.3.3	Compression stiffness (ANNEX H, NORMATIVE)	
	4.3.3.1	Compression stiffness	PASS
	4.3.4	Resistance to repeated loading in compression	(ANEXO I, NORMATIVO) PASS
	4.4.3	Steel reinforcing plates	
	4.4.3.1	Inner plates	PASS
	4.4.3.2	Outer plates	table 2 PASS
	5.1	General	PASS
	5.3.3	Basis of design	
	5.3.3.1	Shape factor	PASS
	5.3.3.2	Design strain due to compressive load	PASS
	5.3.3.3	Shear strain	PASS
	5.3.3.4	Design strain due to angular rotation	PASS
	5.3.3.5	Reinforcing plate thickness	PASS
	5.3.3.6	Limiting conditions	PASS
	5.3.3.7	Forces, moments, and deformations exerted on the structure	PASS
	5.4	Plain pad bearings	
	5.5	Strip bearings	

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REQUIREMENT	CLAUSE			RESULTS
1337-3 CAPITULOS				
ROTATION CAPACITY	5.1	General		PASS
	5.3.3.4	Design strain due to angular rotation		PASS
	5.3.3.6	Limiting conditions		PASS
	5.3.3.7	Forces, moments, and deformations exerted on the structure		PASS
	4.3.5	ANNEX J		NA
	4.3.5.2	ANNEX J		NA
	4.3.5.3	ANNEX J		NA
DURABILITY ASPECTS	4.3.6	Ozone resistance	(ANNEX L, NORMATIVE)	NPD
	4.3.7	PTFE/elastomer shear bond strength	(ANNEX M, NORMATIVE)	PASS
	4.4.2	Physical and mechanical properties of elastomer	TABLE 1	PASS
	4.4.4	Sliding surface		
	4.4.4.1	Bonding of austenitic steel for bearings type D and type E	6.9 EN 1337-2	PASS
	4.4.4.2	Top sliding surface of bearings type D		PASS
	4.4.4.3	Lubrication dimples of bearing type D		PASS
	4.4.4.4	Friction coefficient	6.9 of EN 1337-2	PASS
	EN 1337-9	General requirements, 4.1.1.1		PASS
LOAD BEARING CAPACITY (of sliding element)	EN 1337-2 clauses 5.3, 5.5, 6 y 5.2			PASS
COEFICIENT OF FRICTION (of sliding element)	EN 1337-2 clause 4.1.1			PASS
DURABILITY ASPECTS (of sliding element)	EN 1337-2 clauses 4.3.5.2, 4.7, 5.1 y 5.2			PASS
	EN 1337-9 clause 4			PASS

NPD: No Performance Determined // NA: Not applicable