

DECLARATION OF PERFORMANCE No 9/2014

1. Unique ID code for the product type: CALVERO PC-8, -10, -12, -15 noise barriers
2. Number of the type, series or any other element that enables identification of the construction product:
CALVERO noise barriers constructed from aluminum profiles with filling from polycarbonate plates. Barriers of pole structure with noise panels that block from both sides, with maximum spread of 5 m. Regular panels 2x2 m, 2x3 m, 2x4 m and 2x5 m as well as smaller or bigger ones are manufactured upon order, and are intended for building it in pole structure within the range of HE100 or more. The products are identified with a code, dimensions, weights and manufacturing date - identifying the product with control documentation of ZKP (Manufacturing Quality Control) - placed on the product's package.
3. Predicted by the manufacturer, intended application or applications of the construction product, according to the applicable harmonized technical specifications:
Decreasing the noise caused by traffic. Noise barriers (anti-noise equipment, which directly inhibit air sounds generated by traffic)
4. Name, reserved trade name or reserved trademark and contact address of the manufacturer:
CALVERO Sp. z o.o. Limited partnership with registered office in: 42-200 Częstochowa, ul. Bór 153 B
5. In applicable cases name and address of the authorized representative: N/A
6. System(s) of assessment and verification of performance of a construction product: "3"
7. In case of performance declaration regarding the construction product covered by the harmonized standard:
EN14388 2005+AC:2008 - Road anti-noise equipment. Specification. Chain of Research Laboratories, Institute of Construction Technology, 00-611, Warsaw, ul. Filtrowa 1. Notified body no. 1488, conducted research in system "3" and issued a report no 02-1860/13/Z00NA that encompasses reports no.: LA02-1860/13/Z00NA; LK02-01860/13/Z00NA, LM00-01860/13/Z00NA; LFS00-01860/13/Z00NA; LPP03-01860/13/Z00NA and reports no A8-5/09 i A8-6/09 issued by TSUS Laboratory, Studena 3, 821-04 Bratislava, Slovakia (notified body no 1301) and no SZ-07-014 issued by CSI Prague (notified body no 1390).
8. In case of performance declaration regarding the construction product, for which the European technical evaluation has been issued: N/A
9. Declared performance:

Major characteristics	CALVERO utility qualities				Harmonized specification
	PC-8	PC-10	PC-12	PC-15	
Insulation from air sounds DL_R	$DL_R = 26$ dB Class B3	$DL_R = 26$ dB Class B3	$DL_R = 30$ dB Class B3	$DL_R = 32$ dB Class B3	EN 14388 Table 1 + EN 1793-2
Highest regular load (90°) that can be borne by the panel, with height of 2m and spread of 5m*	0,273 kN/m ²				EN 14388 Table 1 + EN 1794-1:2011 Att. A
Highest regular load (90°) that can be borne by the panel, with height of 1m and spread of 3m*	2,52 kN/m ²				
Dead weight: o Dead weight when dry o Dead weight when medium wet o Highest vertical burden that may be borne by the panel	14,5 kg/m ² 14,5 kg/m ² 0,96 kN/m ²	16,9 kg/m ² 16,9 kg/m ² 0,96 kN/m ²	19,3 kg/m ² 19,3 kg/m ² 0,96 kN/m ²	22,9 kg/m ² 22,9 kg/m ² 0,96 kN/m ²	EN 14388 Table 1 + EN 1794-1:2011 Att. B
Resistance to a stone strike	Meets the requirements				EN 14388 Table 1 + EN 1794-1 Att. C
Dynamic load at plowing: o The highest bending moment that can be borne by a bearing element o Highest regular load (90°) that can be borne by the noise barrier	N/A For spread of 5m - 8,22 kN / 2m x 2m for each panel**)				EN 14388 Table 1 + EN 1794-1:2011 Att. E
Resistance to fire of bushes	Class 3				EN 14388 Table 1 + EN 1794-2 Att. A
Danger from falling elements	N/A	Class 4 (400 kg)			EN 14388 Table 1 + EN 1794-2 Att. B
Environmental protection	100 % recycling				EN 14388 Table 1 + EN 1794-2 Att. C
Emission of dangerous substances	Polymethyl methacrylate elements/ EPDM seal - Antimony: < 0,002 mg/kg / < 0,001 mg/kg - Barium: < 0,004 mg/kg / < 0,3 mg/kg				EN 14388 Table 1 + EN 1794-2:2011 Att. C
Escape routes	Meets the requirements,				EN 14388 Table 1 + EN 1794-2 Att. D
Reflection of light	20° - 54,1 60° - 95,3 85° - 110,9				EN 14388 Table 1 + EN 1794-2:2011 Att. E
Transparentness	N/A				EN 14388 Table 1 + EN 1794-2 Att. F
Endurance of utility qualities o Acoustic qualities o Non-acoustic qualities	N/A Not less than 5 years				EN-14389-1 EN-14389-2

*When designing, detailed values of calculations according to Table 5 of the report from examination no LK02-01860/13/Z00NA.
**When designing, detailed values of calculations according to Table 8 of the report from examination no LK02-01860/13/Z00NA.

10. Performance of the product determined in point 1 and 2 complies with performance declared in point 9.

This declaration of performance is issued on the sole responsibility of the manufacturer determined in point 4.

On behalf of the producer, the undersigned: Mariusz Ciepliński – President of the Board

Częstochowa, 29.01.2014

PREZES ZARZĄDU SPÓŁKI

Mariusz Ciepliński

CALVERO

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