

DECLARATION OF PERFORMANCE

DoP No. 16/0971-WCA1

1. Unique identification code of the product-type: Walraven Ceiling Anchor WCA1
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4):

See: **ETA-16/0971**

Charge number: **See product packaging**

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Generic type	Deformation-controlled expansion anchors
For use in	Cracked and non-cracked concrete C20/25 to C50/60 acc. To EN 206:2000-12
Material	WCA1 Ceiling anchor is a deformation-controlled expansion anchors in size of M6 made of galvanized carbon steel.
Use category	Deformation-controlled steel expansion anchors in size M6 for use in cracked and non-cracked concrete in accordance with the ETAG 001 "Metal anchors for use in concrete", Part 1: "Anchors in general" and Part 6: "Anchors for multiple use for non-structural applications".
Loading	static or quasi-static

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

J. van Walraven Holding B.V., Industrieweg 5, 3641 RK Mijdrecht, The Netherlands

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 2+

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Technical Assessment Body:	Instytut Techniki Budowlanej
European Technical Assessment:	ETA-16/0971 edition of 2016-12-15
European Assessment Document:	ETAG 001:2
Notified body/ies:	1488

The notified body 1488 performed under system 1:

- (i) determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product;
 - (ii) initial inspection of the manufacturing plant and of factory production control;
 - (iii) continuous surveillance, assessment and evaluation of factory production control
- and issued:

Certificate of constancy of performance:

9. Declared performance/s:

Essential Characteristics	Performance	Harmonized Technical Specification
Characteristic resistance for all load directions	ETA-16/0971, Annex C1	ETAG 001 Part 6
Edge distances and spacing	ETA-16/0971, Annex C1	
Characteristic resistance under fire exposure	ETA-16/0971, Annex C1	

Table C1: Characteristic resistance (design acc. to ETAG 001, Annex C, method C)

WCA1 Ceiling anchor			WCA1 6x40 WCA1 6x65
All load directions			
Characteristic resistance in cracked and non-cracked concrete C20/25 to C50/60	F_{Rk}	[kN]	3,0
Partial safety factor ¹	γ_M^2	[-]	1,5
Spacing	s_{cr}	[mm]	200
Edge distance	c_{cr}	[mm]	150

Table C2: Characteristic resistance under fire exposure in concrete C20/25 to C50/60
- WCA Ceiling anchor (design acc. to ETAG 001, Annex C, method C)

WCA1 Ceiling anchor			WCA1 6x40	WCA1 6x65		
All load directions						
Fire resistance class			R30	R60	R90	R120
Characteristic resistance	$F_{Rk,fi1}$	[kN]	0,6	0,5	0,3	0,3
Partial safety factor	γ_M^1	[-]	1,0			
Spacing	$s_{cr,fi}$	[mm]	4 x h_{ef}			
Edge distance	$c_{cr,fi}$	[mm]	2 x h_{ef}			
The design method covers anchors with a fire attack from one side only. In case of fire attack from more than one side, the edge distance shall be ≥ 300 mm.						

¹ in the absence of other national regulations

Technical Documentation and / or Specific Technical Documentation:

ETA-16/0971 edition of 2016-12-15

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

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