DECLARATION OF PERFORMANCE

No. DoP-13/0584-R-DCA

1. Unique identification code of the product-type: **R-DCA**
2. Intended use/es: **R-DCA are deformation-controlled expansion anchors for use in concrete for redundant non-structural applications**
3. Manufacturer: **RAWLPLUG S.A., ul. Kwidzyńska 6, 51-416 Wrocław, Poland**
4. System/s of AVCP: **System 2+**
5. European Assessment Document: **EAD 330747-00-0601; May 2018**
6. European Technical Assessment: **ETA-13/0584; 2026-03-24**
   Technical Assessment Body: **Instytut Techniki Budowlanej**
   Notified body/ies: **1488 ITB**
   Certificate number and type: **1488-CPR-0328/Z**
7. Declared performance/s:

Safety and accessibility in use (BWR 4)

Essential characteristic	**Performance**
Characteristic resistance for all load directions	Table C1
Durability	Galvanized steel with a zinc coating thickness of > 5 µm for use in dry internal conditions

Safety in case of fire (BWR 2)

Essential characteristic	**Performance**
Reaction to fire	Class A1
Resistance to fire	Table C5

Table C1: Characteristic resistance – R-DCA – in solid concrete elements

R-DCA			Property class	M6/25	M8/30	M10/40	M12/50	M16/65	M20/80
All load directions (fastening screw or threaded rod property class ≥ 4.6)									
Characteristic resistance in cracked and uncracked concrete C12/15	F^0_{Rk}	[kN]	≥ 4.6	1,2	2	3,5	5	10	13
Characteristic resistance in cracked and uncracked concrete C20/25 to C50/60	F^0_{Rk}	[kN]	≥ 4.6	1,5	3	4,5	6	13	17
Partial safety factor	γ_2 (1)	[–]	–	1,2					
Spacing	s_{cr}	[mm]		200				260	320
Edge distance	c_{cr}	[mm]		150				195	240
Shear load with lever arm									
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	4.6	6	15	30	52	133	260
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	4.8	6	15	30	52	133	260
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	5.8	8	19	37	66	167	325
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	6.8	9	23	45	79	200	390
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	8.8	12	30	60	105	267	520
Partial safety factor	γ_{Ms} (1)	[–]	–	1,25					
(1) in the absence of other national regulations									

Table C5: Characteristic resistance under fire exposure in solid concrete elements of strength class C20/25 to C50/60 - R-DCA and R-DCL

Fire resistance class	R-DCA and R-DCL		M8/30	M10/40	M12/50	M16/65	M20/80
All load directions							
R30	Characteristic resistance $F^0_{Rk,fi}$ (1) (2)	[kN]	0,37	0,87	1,61	3,14	4,35
R60		[kN]	0,33	0,75	1,26	2,36	3,68
R90		[kN]	0,26	0,58	1,10	2,04	3,19
R120		[kN]	0,18	0,46	0,84	1,57	2,45
R30	Characteristic bending resistance $M^0_{Rk,s,fi}$	[kNm]	0,60	1,77	4,07	9,65	18,85
R60		[kNm]	0,54	1,53	3,05	7,24	14,14
R90		[kNm]	0,42	1,18	2,65	6,27	12,25
R120		[kNm]	0,30	0,94	2,04	4,83	9,42
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 a partial safety factor $\gamma_{m,fi}$ = 1,0 is recommended (2) fastening screw or threaded rod property class not less than 4.6							

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Radosław Koelner
President of the Management Board
Wrocław, 2026-07-08

RAWLPLUG S.A.
51-416 Wrocław, ul. Kwidzyńska 6
NIP 895-16-87-880
Regon 932098397