

Declaration of Performance

According to Article 29 of the Regulation (EU) Nr. 305/2011
(Construction Products Regulation).

Walraven RapidStrut® U-Washer

DoP No. 24/0619 - RapidStrut® U-Washer

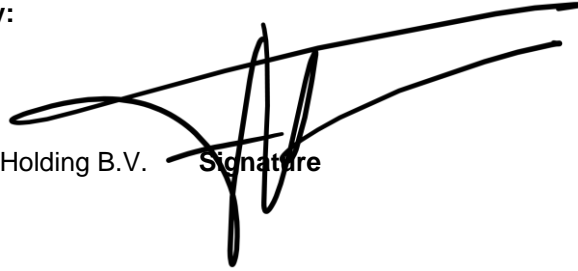
- 1. Unique identification code of the product-type:**
Walraven RapidStrut® U-Washer:
66588009, 66588010, 66588012
- 2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):**
n/a
- 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:**
Supporting technical building equipment according to EAD 280016-00-0602
- 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 authorised representative whose mandate covers the tasks specified in Article 12(2): n/a**
n/a
- 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:**
System 3
- 7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:**
n/a
- 8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:**
ETA Danmark issued ETA 24/0619 on the basis of EAD 280016-00-0602, Materialprüfanstalt Leipzig (MFPA) performed third party tasks under System 3 and issued document GS 6.1/21-015-1.

9. Declared performance:

Essential Characteristic	Declared Performance	Harmonized Technical Specification
Characteristics at ambient temperature	See ETA 24/0619, Annex C1-C2	EAD 280016-00-0602
Resistance and deformation under fire exposure	See ETA 24/0619, Annex C3	
Reaction to fire	A1	

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:

Frank Nijdam
Co-CEO
J. van Walraven Holding B.V.



Signature

Date 09-09-2024

Table C1: Pull-through resistance of U-Washers: Performance characteristics under ambient temperature [kN] in combination with threaded rods with strength class ≥ 4.8

rail	U-Washer	calculated			recommended	
		X_k [kN]	X_d [kN]	γ_m [-]	X_d [kN]	γ_m [-]
21-L, PG	9mm	6.86	6.67	1.03	5.49	1.25
	11mm					
	13mm					
21-M, PG	9mm	7.55	6.43	1.17	6.04	1.25
	11mm					
	13mm					
21-H, PG and BUP	9mm	8.96	8.46	1.06	7.17	1.25
	11mm					
	13mm					
41-L, PG	9mm	6.31	5.98	1.06	5.05	1.25
	11mm					
	13mm					
41-M, PG and BUP	9mm	8.44	8.14	1.04	6.75	1.25
	11mm					
	13mm					
41-H, PG and BUP	9mm	9.17	8.69	1.06	7.34	1.25
	11mm	12.18	11.68	1.04	9.74	1.25
	13mm	12.88	12.16	1.06	10.30	1.25
62-H, PG and BUP	9mm	9.12	8.32	1.10	7.30	1.25
	11mm					
	13mm					
82-H, PG and BUP	9mm	9.19	8.80	1.04	7.35	1.25
	11mm					
	13mm					
DS-5, BUP	9mm	8.44	8.14	1.04	6.75	1.25
	11mm					
	13mm					

Pull-out resistance of U-Washers of System Walraven RapidStrut®

Performance characteristics in case of fire

Annex C1

Table C2: Pull-through resistance of U-Washers: Performance characteristics under ambient temperature [kN] in combination with threaded rods with strength class ≥ 6.8

rail	U-Washer	calculated			recommended	
		X_k [kN]	X_d [kN]	γ_m [-]	X_d [kN]	γ_m [-]
21-L, PG	9mm	10.36	10.08	1.03	8.29	1.25
	11mm					
	13mm					
21-M, PG	9mm	11.40	9.71	1.17	9.12	1.25
	11mm					
	13mm					
21-H, PG and BUP	9mm	13.53	12.77	1.06	10.82	1.25
	11mm					
	13mm					
41-L, PG	9mm	9.53	9.03	1.06	7.62	1.25
	11mm					
	13mm					
41-M, PG and BUP	9mm	12.74	12.28	1.04	10.19	1.25
	11mm					
	13mm					
41-H, PG and BUP	9mm	13.84	13.11	1.06	11.07	1.25
	11mm	17.19	16.47	1.04	13.75	1.25
	13mm	17.54	16.56	1.06	14.03	1.25
62-H, PG and BUP	9mm	13.77	12.56	1.10	11.02	1.25
	11mm					
	13mm					
82-H, PG and BUP	9mm	13.88	13.29	1.04	11.10	1.25
	11mm					
	13mm					
DS-5, BUP	9mm	12.58	12.12	1.04	10.06	1.25
	11mm					
	13mm					

Pull-out resistance of U-Washers of System Walraven RapidStrut®

Performance characteristics under ambient temperature

Annex C2

Table C3: Pull-through resistance of U-Washers: Performance characteristics in case of fire [kN]

rail	U-Washer	fire duration			
		30min	60min	90min	120min
41-H, PG and BUP	9mm	1.16	0.68	0.52	0.44
	11mm				
	13mm				

Pull-out resistance of U-Washers of System Walraven RapidStrut®

Performance characteristics in case of fire

Annex C3