

# Declaration of Performance

According to Annex III of the Regulation (EU) Nr.305/2011  
(Construction Products Regulation).

## Walraven pipe clamps KSB1 and KSB2

DoP No. 22/0322-KSB

**1. Unique identification code of the product-type:**

Walraven pipe clamps KSB1 and KSB2, Item numbers:

3396014, 3396019, 3396023, 3396028, 3396035, 3396039, 3396045, 3396052, 3396058,  
3396064, 3396070, 3396079, 3396083, 3396091, 3396105, 3396115, 3396130, 3396140,  
3396160, 3396169, 3396180, 3396200, 3396210, 3396225, 3363014, 3363018, 3363023,  
3363028, 3363035, 3363043, 3363051, 3363054, 3363062

**2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):**

Date code is printed on the packaging

**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:**

Technical and Test Institute for Construction Prague (TZUS) issued ETA 22/0322 on the basis of EAD 280016-00-0602, performed third party tasks under System 3 and issued document ER ETA 22/0322.

**9. Declared performance:**

<b>Essential Characteristic</b>	<b>Performance</b>	<b>Harmonized Technical Specification</b>
Characteristic and design resistance	See ETA 22/0322, Annex B1	
Serviceability Limit State	See ETA 22/0322, Annex B2	EAD 280016-00-0602
Resistance and deformation under fire exposure	NPD	
Reaction to fire: steel parts	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 28-07-2023**

## Annex B1

Characteristic and design resistance of Walraven pipe clamp KSB1 and KSB2

The characteristic resistance of pipe clamp was tested in accordance with Cl. 2.2.3.3 of the EAD 280016-00-0602.

The largest and the smallest dimension from each subgroups (cross sectional geometry of the pipe steel band, material specifications, closing mechanism, joint between the threaded boss and pipe clamp band, threaded boss, material and cross-section geometry of the rubber inlay) was tested.

Part No.	Designation	Min. characteristic resistance $F_{Rk}$ [N]	Min. design resistance $F_{Rd}$ [N]
3363018	KSB1 M8 15 – 18	1400	1100
3363023	KSB1 M8 20 – 23		
3363028	KSB1 M8 25 – 28		
3363035	KSB1 M8 32 – 35	2000	1600
3363043	KSB1 M8 40 – 43		
3363051	KSB1 M8 48 – 51		
3363054	KSB1 M8 53 – 56		
3363062	KSB1 M8 58 – 63		

Table B1.1: Characteristic and design resistance of Walraven pipe clamp KSB1

Part No.	Designation	Min. characteristic resistance $F_{Rk}$ [N]	Min. design resistance $F_{Rd}$ [N]
3396014	KSB2 M8/M10 10 – 14	1550	1050
3396019	KSB2 M8/M10 15 – 19		
3396023	KSB2 M8/M10 20 – 23		
3396028	KSB2 M8/M10 25 – 28		
3396035	KSB2 M8/M10 31 – 35		
3396039	KSB2 M8/M10 36 – 39		
3396045	KSB2 M8/M10 40 – 45		
3396052	KSB2 M8/M10 48 – 52	2450	1700
3396058	KSB2 M8/M10 54 – 58		
3396064	KSB2 M8/M10 60 – 64		
3396070	KSB2 M8/M10 66 – 70	4450	2600
3396079	KSB2 M8/M10 75 – 79		
3396083	KSB2 M8/M10 80 – 83		
3396091	KSB2 M8/M10 88 – 91		
3396105	KSB2 M8/M10 100 – 105		
3396115	KSB2 M8/M10 108 – 115	5800	3400
3396130	KSB2 M8/M10 125 – 130		
3396140	KSB2 M8/M10 133 – 140		
3396160	KSB2 M8/M10 152 – 160		
3396169	KSB2 M8/M10 165 – 169		
3396180	KSB2 M8/M10 176 – 180		
3396200	KSB2 M8/M10 192 – 200		
3396210	KSB2 M8/M10 205 – 210		
3396225	KSB2 M8/M10 219 – 225		

Table B.1.2: Characteristic and design resistance of Walraven pipe clamp KSB2

## Annex B2

Resistance under serviceability limit state of Walraven pipe clamp KSB1 and KSB2

The Resistance under serviceability limit state of pipe clamp was tested in accordance with Cl. 2.2.3.4 of the EAD 280016-00-0602. The largest and the smallest dimension from each subgroups (cross sectional geometry of the pipe steel band, material specifications, closing mechanism, joint between the threaded boss and pipe clamp band, threaded boss, material and cross-section geometry of the rubber inlay) was tested.

Part No.	Designation	Min. average serviceability limit state $F_{SLs}$ [N]	Displacement criteria [mm]
3363018	KSB1 M8 15 – 18	390	1,50
3363023	KSB1 M8 20 – 23		
3363028	KSB1 M8 25 – 28		
3363035	KSB1 M8 32 – 35	630	1,50
3363043	KSB1 M8 40 – 43		
3363051	KSB1 M8 48 – 51		
3363054	KSB1 M8 53 – 56		
3363062	KSB1 M8 58 – 63		

Table B2.1: The serviceability limit state and displacement criteria for serviceability limit state of Walraven pipe clamp KSB1

Part No.	Designation	Min. average serviceability limit state $F_{SLs}$ [N]	Displacement criteria [mm]
3396014	KSB2 M8/M10 10 – 14	1000	1,50
3396019	KSB2 M8/M10 15 – 19		
3396023	KSB2 M8/M10 20 – 23		
3396028	KSB2 M8/M10 25 – 28		
3396035	KSB2 M8/M10 31 – 35		
3396039	KSB2 M8/M10 36 – 39		
3396045	KSB2 M8/M10 40 – 45		
3396052	KSB2 M8/M10 48 – 52		
3396058	KSB2 M8/M10 54 – 58		
3396064	KSB2 M8/M10 60 – 64		
3396070	KSB2 M8/M10 66 – 70	1100	1,50
3396079	KSB2 M8/M10 75 – 79		1,66
3396083	KSB2 M8/M10 80 – 83		
3396091	KSB2 M8/M10 88 – 91	1900	1,82
3396105	KSB2 M8/M10 100 – 105		
3396115	KSB2 M8/M10 108 – 115		
3396130	KSB2 M8/M10 125 – 130		
3396140	KSB2 M8/M10 133 – 140		
3396160	KSB2 M8/M10 152 – 160		
3396169	KSB2 M8/M10 165 – 169	2740	3,38
3396180	KSB2 M8/M10 176 – 180		
3396200	KSB2 M8/M10 192 – 200		
3396210	KSB2 M8/M10 205 – 210		
3396225	KSB2 M8/M10 219 – 225		

Table B2.2: The serviceability limit state and displacement criteria for serviceability limit state of Walraven pipe clamp KSB2