

# Declaration of Performance

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

## Walraven pipe clamps HD500 & HD1501

DoP No. 23/0909-HD500/1501

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

Walraven pipe clamps HD500 & HD1501: 33138019, 33138023, 33138029, 33138035, 33138045, 33138051, 33138059, 33138064, 33148071, 33148078, 33148085, 33148092, 33148109, 33148116, 33148133, 33148140, 33148169, 33148188, 33148204, 33148213, 33148227, 33139019, 33139023, 33139029, 33139035, 33139045, 33139051, 33139059, 33139064, 33149071, 33149078, 33149085, 33149092, 33149109, 33149116, 33149140, 33149169, 33149227, 33168169, 33168188, 33168204, 33168213, 33168227, 33168250, 33168275, 33168288, 33168325, 33168364, 33168408, 33168458, 33168509, 33178019, 33178023, 33178029, 33178035, 33178045, 33178051, 33178059, 33178064, 33178071, 33178078, 33178085, 33178092, 33178109, 33178116, 33178133, 33178140, 33178169, 33178188, 33178204, 33178213, 33178227, 33178250, 33178275, 33178325, 33178364, 33178408, 33178458, 33178509, 33179019, 33179023, 33179029, 33179035, 33179045, 33179051, 33179059, 33179064, 33179071, 33179078, 33179085, 33179092, 33179109, 33179116, 33179133, 33179140, 33179169, 33179227, 33038019, 33038023, 33038030, 33038036, 33038042, 33038045, 33038052, 33038058, 33038065, 33038071, 33048078, 33048085, 33048092, 33048106, 33048116, 33048123, 33048133, 33048140, 33048154, 33048169, 33048183, 33048202, 33048219, 33048227, 33018030, 33018036, 33018045, 33018052, 33018065, 33068169, 33068183, 33068202, 33068219, 33068227, 33068241, 33068254, 33068264, 33068279, 33068289, 33068302, 33068325, 33068360, 33068374, 33068389, 33068408, 33068418, 33068436, 33068458, 33068509, 33078019, 33078023, 33078030, 33078036, 33078042, 33078045, 33078052, 33078058, 33078065, 33078071, 33078078, 33078085, 33078092, 33078106, 33078116, 33078133, 33078140, 33078154, 33078169, 33078183, 33078202, 33078219, 33078227, 33078254, 33078279, 33078289, 33078325, 33078360, 33078408, 33078436, 33078458, 33078509, 33078564, 33088169, 33088183, 33088202, 33088227, 33088254, 33088289, 33088325, 33088360, 33088408, 33088458, 33088509, 33088564

### 2. Intended use/es:

Supporting technical building equipment according to EAD 280016-00-0602

### 3. Manufacturer:

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

### 4. System/s of AVCP:

System 3

### 5. European Assessment Document: EAD 280016-00-0602 – Products for installation systems for supporting technical building equipment

**European Technical Assessment:** ETA 23/0909 (6 October 2024)

**Technical Assessment Body:** Technical and Test Institute for Construction Prague (TZUS)

**Notified Body:** 1020

### 6. Declared performance/s:

Essential Characteristic	Performance	Harmonized Technical Specification
Characteristic and design resistance	See ETA 23/0909, Annex B1-B2	EAD 280016-00-0602
Serviceability Limit State	See ETA 23/0909, Annex B3-B4	
Reaction to fire: steel parts	A1	

7. **Appropriate Technical Documentation and/or Specific Technical Documentation:**

N/A

8. **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:**

**Frank Nijdam**

Co-CEO

J. van Walraven Holding B.V.

  
Signature

**Date 21-01-2025**

### Characteristic resistance of Walraven pipe clamp HD1501

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.

Table B1.1: Characteristic and design resistance of Walraven pipe clamp HD1501

Part No.	Designation	Min. characteristic resistance $F_{Rk}$ [N]	Min. design resistance $F_{Rd}$ [N]
33138019	HD1501 M8/M10 15 – 19	13900	10000
33138023	HD1501 M8/M10 19 – 23		
33138029	HD1501 M8/M10 25 – 29		
33138035	HD1501 M8/M10 30 – 35		
33138045	HD1501 M8/M10 40 – 45		
33138051	HD1501 M8/M10 46 – 51		
33138059	HD1501 M8/M10 53 – 59		
33138064	HD1501 M8/M10 59 – 64		
33148071	HD1501 M10/M12 65 – 71	19000	15000
33148078	HD1501 M10/M12 72 – 78		
33148085	HD1501 M10/M12 79 – 85		
33148092	HD1501 M10/M12 86 – 92		
33148109	HD1501 M10/M12 101 – 109		
33148116	HD1501 M10/M12 108 – 116		
33148133	HD1501 M10/M12 125 – 133		
33148140	HD1501 M10/M12 132 – 140		
33148169	HD1501 M10/M12 159 – 169	37900	31500
33148188	HD1501 M10/M12 178 – 188		
33148204	HD1501 M10/M12 194 – 204		
33148213	HD1501 M10/M12 203 – 213		
33148227	HD1501 M10/M12 217 – 227	32950	27400
33139019	HD1501 M8/M10 15 – 19 White	13900	10000
33139023	HD1501 M8/M10 19 – 23 White		
33139029	HD1501 M8/M10 25 – 29 White		
33139035	HD1501 M8/M10 30 – 35 White		
33139045	HD1501 M8/M10 40 – 45 White		
33139051	HD1501 M8/M10 46 – 51 White		
33139059	HD1501 M8/M10 53 – 59 White		
33139064	HD1501 M8/M10 59 – 64 White		
33149071	HD1501 M10/M12 65 – 71 White	19000	15000
33149078	HD1501 M10/M12 72 – 78 White		
33149085	HD1501 M10/M12 79 – 85 White		
33149092	HD1501 M10/M12 86 – 92 White		
33149109	HD1501 M10/M12 101 – 109 White		
33149116	HD1501 M10/M12 108 – 116 White		
33149140	HD1501 M10/M12 132 – 140 White		
33149169	HD1501 M10/M12 159 – 159 White	37900	31500
33149227	HD1501 M10/M12 217 – 227 White	32950	27400

Walraven pipe clamp HD1501

Characteristic and design resistances

Annex B1

**Characteristic resistance of Walraven pipe clamp HD1501**

Table B1.1: Characteristic and design resistance of Walraven pipe clamp HD1501 - continued

Part No.	Designation	Min. characteristic resistance $F_{Rk}$ [N]	Min. design resistance $F_{Rd}$ [N]
33168169	HD1501 M16 159 – 169	36400	29300
33168188	HD1501 M16 178 – 188		
33168204	HD1501 M16 194 – 204		
33168213	HD1501 M16 203 – 213	35400	29600
33168227	HD1501 M16 217 – 227		
33168250	HD1501 M16 240 – 250		
33168275	HD1501 M16 263 – 275	40200	34500
33168288	HD1501 M16 278 – 288		
33168325	HD1501 M16 315 – 325		
33168364	HD1501 M16 354 – 364		
33168408	HD1501 M16 398 – 408		
33168458	HD1501 M16 448 – 458		
33168509	HD1501 M16 499 – 509	11000	5700
33178019	HD1501 G½" 15 – 19		
33178023	HD1501 G½" 19 – 23		
33178029	HD1501 G½" 25 – 29		
33178035	HD1501 G½" 30 – 35		
33178045	HD1501 G½" 40 – 45		
33178051	HD1501 G½" 46 – 51		
33178059	HD1501 G½" 53 – 59		
33178064	HD1501 G½" 59 – 64		
33178071	HD1501 G½" 65 – 71		
33178078	HD1501 G½" 72 – 78	23800	21800
33178085	HD1501 G½" 79 – 85		
33178092	HD1501 G½" 86 – 92		
33178109	HD1501 G½" 101 – 109		
33178116	HD1501 G½" 108 – 116		
33178133	HD1501 G½" 125 – 133		
33178140	HD1501 G½" 132 – 140	34400	30500
33178169	HD1501 G½" 159 – 169		
33178188	HD1501 G½" 178 – 188		
33178204	HD1501 G½" 194 – 204		
33178213	HD1501 G½" 203 – 213		
33178227	HD1501 G½" 217 – 227		
33178250	HD1501 G½" 240 – 250	34400	30500
33178275	HD1501 G½" 265 – 275		
33178325	HD1501 G½" 315 – 325		
33178364	HD1501 G½" 354 – 364		
33178408	HD1501 G½" 398 – 408		
33178458	HD1501 G½" 448 – 458		
33178509	HD1501 G½" 499 – 509	39500	22100

**Walraven pipe clamp HD1501**

**Characteristic and design resistances**

**Annex B1**

**Characteristic resistance of Walraven pipe clamp HD1501**

Table B1.1: Characteristic and design resistance of Walraven pipe clamp HD1501 - continued

Part No.	Designation	Min. characteristic resistance $F_{Rk}$ [N]	Min. design resistance $F_{Rd}$ [N]
33179019	HD1501 G½" 15 – 19 White	11000	5700
33179023	HD1501 G½" 19 – 23 White		
33179029	HD1501 G½" 25 – 29 White		
33179035	HD1501 G½" 30 – 35 White		
33179045	HD1501 G½" 40 – 45 White		
33179051	HD1501 G½" 46 – 51 White		
33179059	HD1501 G½" 53 – 59 White		
33179064	HD1501 G½" 59 – 64 White		
33179071	HD1501 G½" 65 – 71 White		
33179078	HD1501 G½" 72 – 78 White	23800	21800
33179085	HD1501 G½" 79 – 85 White		
33179092	HD1501 G½" 86 – 92 White		
33179109	HD1501 G½" 101 – 109 White		
33179116	HD1501 G½" 108 – 116 White		
33179133	HD1501 G½" 125 – 133 White		
33179140	HD1501 G½" 132 – 140 White		
33179169	HD1501 G½" 159 – 169 White	34400	30500
33179227	HD1501 G½" 217 – 227 White		

**Walraven pipe clamp HD1501**

**Characteristic and design resistances**

**Annex B1**

### Characteristic resistance of Walraven pipe clamp HD500

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.

Table B2.1: Characteristic and design resistance of Walraven pipe clamp HD500

Part No.	Designation	Min. characteristic resistance $F_{Rk}$ [N]	Min. design resistance $F_{Rd}$ [N]
33038019	HD500 M8/M10 15 – 19	12200	10500
33038023	HD500 M8/M10 19 – 23		
33038030	HD500 M8/M10 25 – 30		
33038036	HD500 M8/M10 31 – 36		
33038042	HD500 M8/M10 37 – 42		
33038045	HD500 M8/M10 40 – 45		
33038052	HD500 M8/M10 47 – 52		
33038058	HD500 M8/M10 53 – 58		
33038065	HD500 M8/M10 59 – 65		
33038071	HD500 M8/M10 66 – 71		
33048078	HD500 M10/M12 72 – 78	24600	21900
33048085	HD500 M10/M12 79 – 85		
33048092	HD500 M10/M12 86 – 92		
33048106	HD500 M10/M12 98 – 106		
33048116	HD500 M10/M12 108 – 116		
33048123	HD500 M10/M12 116 – 123		
33048133	HD500 M10/M12 125 – 133		
33048140	HD500 M10/M12 132 – 140		
33048154	HD500 M10/M12 148 – 154		
33048169	HD500 M10/M12 159 – 169		
33048183	HD500 M10/M12 173 – 183	41400	38700
33048202	HD500 M10/M12 192 – 202		
33048219	HD500 M10/M12 208 – 219		
33048227	HD500 M10/M12 217 – 227		
33018030	HD500 M10 25 – 30		
33018036	HD500 M10 31 – 36	16900	15900
33018045	HD500 M10 40 – 45		
33018052	HD500 M10 47 – 52		
33018065	HD500 M10 59 – 65		
33068169	HD500 M16 159 – 169		
33068183	HD500 M16 173 – 183	37300	30500
33068202	HD500 M16 192 – 202		
33068219	HD500 M16 208 – 219		
33068227	HD500 M16 217 – 227		
33068241	HD500 M16 229 – 241		
33068254	HD500 M16 244 – 254	37300	30500
33068264	HD500 M16 254 – 264		
33068279	HD500 M16 267 – 279		
33068289	HD500 M16 279 – 289		
33068302	HD500 M16 392 – 302		
33068325	HD500 M16 315 – 325	45700	38500
33068360	HD500 M16 350 – 360		
33068374	HD500 M16 364 – 374		
33068389	HD500 M16 379 – 389		
33068408	HD500 M16 398 – 408		
33068418	HD500 M16 408 – 418		

Walraven pipe clamp HD500

Characteristic and design resistances

Annex B2

### Characteristic resistance of Walraven pipe clamp HD500

Table B2.1: Characteristic and design resistance of Walraven pipe clamp HD500 - continued

Part No.	Designation	Min. characteristic resistance $F_{Rk}$ [N]	Min. design resistance $F_{Rd}$ [N]		
33068436	HD500 M16 424 – 436	45700	38500		
33068458	HD500 M16 448 – 458				
33068509	HD500 M16 499 – 509				
33078019	HD500 G½" 15 – 19	12400	8650		
33078023	HD500 G½" 19 – 23				
33078030	HD500 G½" 25 – 30				
33078036	HD500 G½" 31 – 36				
33078042	HD500 G½" 37 – 42				
33078045	HD500 G½" 40 – 45				
33078052	HD500 G½" 47 – 52				
33078058	HD500 G½" 53 – 58				
33078065	HD500 G½" 59 – 65				
33078071	HD500 G½" 66 – 71				
33078078	HD500 G½" 72 – 78	22000	21000		
33078085	HD500 G½" 79 – 85				
33078092	HD500 G½" 86 – 92				
33078106	HD500 G½" 98 – 106				
33078116	HD500 G½" 108 – 116				
33078133	HD500 G½" 125 – 133				
33078140	HD500 G½" 132 – 140				
33078154	HD500 G½" 148 – 154				
33078169	HD500 G½" 159 – 169				
33078183	HD500 G½" 173 – 183				
33078202	HD500 G½" 192 – 202	32300	27250		
33078219	HD500 G½" 208 – 219				
33078227	HD500 G½" 217 – 227				
33078254	HD500 G½" 244 – 254	32300	27250		
33078279	HD500 G½" 267 – 279				
33078289	HD500 G½" 279 – 289				
33078325	HD500 G½" 315 – 325	46500	44500		
33078360	HD500 G½" 350 – 360				
33078408	HD500 G½" 398 – 408				
33078436	HD500 G½" 424 – 436				
33078458	HD500 G½" 448 – 458				
33078509	HD500 G½" 499 – 509				
33078564	HD500 G½" 554 – 564				
33088169	HD500 G1" 159 – 169			34400	25700
33088183	HD500 G1" 173 – 183				
33088202	HD500 G1" 192 – 202				
33088227	HD500 G1" 217 – 227				
33088254	HD500 G1" 244 – 254	34400	25700		
33088289	HD500 G1" 279 – 289				
33088325	HD500 G1" 315 – 325				
33088360	HD500 G1" 350 – 360	45600	43400		
33088408	HD500 G1" 398 – 408				
33088458	HD500 G1" 448 – 458				
33088509	HD500 G1" 499 – 509				
33088564	HD500 G1" 554 – 564				

**Walraven pipe clamp HD500**

**Characteristic and design resistances**

**Annex B2**

### Resistance under serviceability limit state of Walraven pipe clamp HD1501

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.

Table B3.1: The serviceability limit state and displacement criteria for serviceability limit state of Walraven pipe clamp HD1501

Part No.	Designation	Min. average serviceability limit state $F_{SLS}$ [N]	Displacement criteria [mm]
33138019	HD1501 M8/M10 15 – 19	2700	1,50
33138023	HD1501 M8/M10 19 – 23		
33138029	HD1501 M8/M10 25 – 29		
33138035	HD1501 M8/M10 30 – 35		
33138045	HD1501 M8/M10 40 – 45		
33138051	HD1501 M8/M10 46 – 51		
33138059	HD1501 M8/M10 53 – 59		
33138064	HD1501 M8/M10 59 – 64	2700	1,50
33148071	HD1501 M10/M12 65 – 71		
33148078	HD1501 M10/M12 72 – 78		
33148085	HD1501 M10/M12 79 – 85		
33148092	HD1501 M10/M12 86 – 92		
33148109	HD1501 M10/M12 101 – 109		
33148116	HD1501 M10/M12 108 – 116		
33148133	HD1501 M10/M12 125 – 133	4650	4,26
33148140	HD1501 M10/M12 132 – 140		
33148169	HD1501 M10/M12 159 – 169		
33148188	HD1501 M10/M12 178 – 188		
33148204	HD1501 M10/M12 194 – 204		
33148213	HD1501 M10/M12 203 – 213		
33148227	HD1501 M10/M12 217 – 227		
33139019	HD1501 M8/M10 15 – 19 White	2700	1,50
33139023	HD1501 M8/M10 19 – 23 White		
33139029	HD1501 M8/M10 25 – 29 White		
33139035	HD1501 M8/M10 30 – 35 White		
33139045	HD1501 M8/M10 40 – 45 White		
33139051	HD1501 M8/M10 46 – 51 White		
33139059	HD1501 M8/M10 53 – 59 White		
33139064	HD1501 M8/M10 59 – 64 White	2700	1,50
33149071	HD1501 M10/M12 65 – 71 White		
33149078	HD1501 M10/M12 72 – 78 White		
33149085	HD1501 M10/M12 79 – 85 White		
33149092	HD1501 M10/M12 86 – 92 White		
33149109	HD1501 M10/M12 101 – 109 White		
33149116	HD1501 M10/M12 108 – 116 White		
33149140	HD1501 M10/M12 132 – 140 White	4650	4,26
33149169	HD1501 M10/M12 159 – 159 White		
33149227	HD1501 M10/M12 217 – 227 White		

**Walraven pipe clamp HD1501**

**Resistance under serviceability limit state**

**Annex B3**



**Resistance under serviceability limit state of Walraven pipe clamp HD1501**

Table B3.1: The serviceability limit state and displacement criteria for serviceability limit state of Walraven pipe clamp HD1501 – continued

Part No.	Designation	Min. average serviceability limit state $F_{SLs}$ [N]	Displacement criteria [mm]
33168169	HD1501 M16 159 – 169	5250	3,38
33168188	HD1501 M16 178 – 188		
33168204	HD1501 M16 194 – 204		
33168213	HD1501 M16 203 – 213		
33168227	HD1501 M16 217 – 227	5250	5,00
33168250	HD1501 M16 240 – 250		
33168275	HD1501 M16 263 – 275	9850	10,18
33168288	HD1501 M16 278 – 288		
33168325	HD1501 M16 315 – 325		
33168364	HD1501 M16 354 – 364		
33168408	HD1501 M16 398 – 408		
33168458	HD1501 M16 448 – 458		
33168509	HD1501 M16 499 – 509		
33178019	HD1501 G½" 15 – 19	2700	1,50
33178023	HD1501 G½" 19 – 23		
33178029	HD1501 G½" 25 – 29		
33178035	HD1501 G½" 30 – 35		
33178045	HD1501 G½" 40 – 45		
33178051	HD1501 G½" 46 – 51		
33178059	HD1501 G½" 53 – 59		
33178064	HD1501 G½" 59 – 64		
33178071	HD1501 G½" 65 – 71	2890	1,50
33178078	HD1501 G½" 72 – 78		
33178085	HD1501 G½" 79 – 85		
33178092	HD1501 G½" 86 – 92		
33178109	HD1501 G½" 101 – 109		
33178116	HD1501 G½" 108 – 116		
33178133	HD1501 G½" 125 – 133		
33178140	HD1501 G½" 132 – 140		
33178169	HD1501 G½" 159 – 169	4800	3,38
33178188	HD1501 G½" 178 – 188		
33178204	HD1501 G½" 194 – 204		
33178213	HD1501 G½" 203 – 213		
33178227	HD1501 G½" 217 – 227		
33178250	HD1501 G½" 240 – 250	4800	5,00
33178275	HD1501 G½" 265 – 275		
33178325	HD1501 G½" 315 – 325	10000	10,18
33178364	HD1501 G½" 354 – 364		
33178408	HD1501 G½" 398 – 408		
33178458	HD1501 G½" 448 – 458		
33178509	HD1501 G½" 499 – 509		

**Walraven pipe clamp HD1501**

**Resistance under serviceability limit state**

**Annex B3**

**Resistance under serviceability limit state of Walraven pipe clamp HD1501**

Table B3.1: The serviceability limit state and displacement criteria for serviceability limit state of Walraven pipe clamp HD1501 – continued

Part No.	Designation	Min. average serviceability limit state $F_{SLS}$ [N]	Displacement criteria [mm]
33179019	HD1501 G½" 15 – 19 White	2700	1,50
33179023	HD1501 G½" 19 – 23 White		
33179029	HD1501 G½" 25 – 29 White		
33179035	HD1501 G½" 30 – 35 White		
33179045	HD1501 G½" 40 – 45 White		
33179051	HD1501 G½" 46 – 51 White		
33179059	HD1501 G½" 53 – 59 White		
33179064	HD1501 G½" 59 – 64 White		
33179071	HD1501 G½" 65 – 71 White	2890	1,50
33179078	HD1501 G½" 72 – 78 White		
33179085	HD1501 G½" 79 – 85 White		
33179092	HD1501 G½" 86 – 92 White		
33179109	HD1501 G½" 101 – 109 White		
33179116	HD1501 G½" 108 – 116 White		
33179133	HD1501 G½" 125 – 133 White		
33179140	HD1501 G½" 132 – 140 White		
33179169	HD1501 G½" 159 – 169 White	4800	3,38
33179227	HD1501 G½" 217 – 227 White		

**Walraven pipe clamp HD1501**

**Resistance under serviceability limit state**

**Annex B3**

### Resistance under serviceability limit state of Walraven pipe clamp HD500

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.

Table B4.1: The serviceability limit state and displacement criteria for serviceability limit state of Walraven pipe clamp HD500

Part No.	Designation	Min. average serviceability limit state $F_{SLS}$ [N]	Displacement criteria [mm]
33038019	HD500 M8/M10 15 – 19	2800	1,50
33038023	HD500 M8/M10 19 – 23		
33038030	HD500 M8/M10 25 – 30		
33038036	HD500 M8/M10 31 – 36		
33038042	HD500 M8/M10 37 – 42		
33038045	HD500 M8/M10 40 – 45		
33038052	HD500 M8/M10 47 – 52		
33038058	HD500 M8/M10 53 – 58		
33038065	HD500 M8/M10 59 – 65		
33038071	HD500 M8/M10 66 – 71		
33048078	HD500 M10/M12 72 – 78	3550	1,56
33048085	HD500 M10/M12 79 – 85		
33048092	HD500 M10/M12 86 – 92		
33048106	HD500 M10/M12 98 – 106		
33048116	HD500 M10/M12 108 – 116		
33048123	HD500 M10/M12 116 – 123		
33048133	HD500 M10/M12 125 – 133		
33048140	HD500 M10/M12 132 – 140		
33048154	HD500 M10/M12 148 – 154		
33048169	HD500 M10/M12 159 – 169		
33048183	HD500 M10/M12 173 – 183		
33048202	HD500 M10/M12 192 – 202		
33048219	HD500 M10/M12 208 – 219		
33048227	HD500 M10/M12 217 – 227		
33018030	HD500 M10 25 – 30	2850	1,50
33018036	HD500 M10 31 – 36		
33018045	HD500 M10 40 – 45		
33018052	HD500 M10 47 – 52		
33018065	HD500 M10 59 – 65		
33068169	HD500 M16 159 – 169	7900	4,54
33068183	HD500 M16 173 – 183		
33068202	HD500 M16 192 – 202		
33068219	HD500 M16 208 – 219		
33068227	HD500 M16 217 – 227		
33068241	HD500 M16 229 – 241	7900	5,58
33068254	HD500 M16 244 – 254		
33068264	HD500 M16 254 – 264		
33068279	HD500 M16 267 – 279		
33068289	HD500 M16 279 – 289		
33068302	HD500 M16 392 – 302	13000	10,18
33068325	HD500 M16 315 – 325		
33068360	HD500 M16 350 – 360		
33068374	HD500 M16 364 – 374		
33068389	HD500 M16 379 – 389		
33068408	HD500 M16 398 – 408		
33068418	HD500 M16 408 – 418		

**Walraven pipe clamp HD500**

**Resistance under serviceability limit state**

**Annex B4**

### Resistance under serviceability limit state of Walraven pipe clamp HD500

Table B4.1: The serviceability limit state and displacement criteria for serviceability limit state of Walraven pipe clamp HD500

Part No.	Designation	Min. average serviceability limit state $F_{SLS}$ [N]	Displacement criteria [mm]
33068436	HD500 M16 424 – 436	13000	10,18
33068458	HD500 M16 448 – 458		
33068509	HD500 M16 499 – 509		
33078019	HD500 G½" 15 – 19	2650	1,50
33078023	HD500 G½" 19 – 23		
33078030	HD500 G½" 25 – 30		
33078036	HD500 G½" 31 – 36		
33078042	HD500 G½" 37 – 42		
33078045	HD500 G½" 40 – 45		
33078052	HD500 G½" 47 – 52		
33078058	HD500 G½" 53 – 58		
33078065	HD500 G½" 59 – 65		
33078071	HD500 G½" 66 – 71		
33078078	HD500 G½" 72 – 78		
33078085	HD500 G½" 79 – 85		
33078092	HD500 G½" 86 – 92		
33078106	HD500 G½" 98 – 106		
33078116	HD500 G½" 108 – 116		
33078133	HD500 G½" 125 – 133		
33078140	HD500 G½" 132 – 140		
33078154	HD500 G½" 148 – 154	6450	3,38
33078169	HD500 G½" 159 – 169		
33078183	HD500 G½" 173 – 183		
33078202	HD500 G½" 192 – 202		
33078219	HD500 G½" 208 – 219		
33078227	HD500 G½" 217 – 227		
33078254	HD500 G½" 244 – 254		
33078279	HD500 G½" 267 – 279	6450	5,58
33078289	HD500 G½" 279 – 289		
33078325	HD500 G½" 315 – 325		
33078360	HD500 G½" 350 – 360		
33078408	HD500 G½" 398 – 408		
33078436	HD500 G½" 424 – 436		
33078458	HD500 G½" 448 – 458		
33078509	HD500 G½" 499 – 509	8950	11,28
33078564	HD500 G½" 554 – 564		
33088169	HD500 G1" 159 – 169		
33088183	HD500 G1" 173 – 183		
33088202	HD500 G1" 192 – 202		
33088227	HD500 G1" 217 – 227		
33088254	HD500 G1" 244 – 254		
33088289	HD500 G1" 279 – 289	9200	3,38
33088325	HD500 G1" 315 – 325		
33088360	HD500 G1" 350 – 360		
33088408	HD500 G1" 398 – 408		
33088458	HD500 G1" 448 – 458		
33088509	HD500 G1" 499 – 509		
33088564	HD500 G1" 554 – 564		
33088254	HD500 G1" 244 – 254	9150	5,08
33088289	HD500 G1" 279 – 289		
33088325	HD500 G1" 315 – 325		
33088360	HD500 G1" 350 – 360		
33088408	HD500 G1" 398 – 408		
33088458	HD500 G1" 448 – 458		
33088509	HD500 G1" 499 – 509		
33088564	HD500 G1" 554 – 564	9150	11,28
33088254	HD500 G1" 244 – 254		
33088289	HD500 G1" 279 – 289		
33088325	HD500 G1" 315 – 325		
33088360	HD500 G1" 350 – 360		
33088408	HD500 G1" 398 – 408		
33088458	HD500 G1" 448 – 458		
33088509	HD500 G1" 499 – 509		
33088564	HD500 G1" 554 – 564		

Walraven pipe clamp HD500

Resistance under serviceability limit state

Annex B4