BSP BracketSystem® Polska

DECLARATION OF PERFORMANCE
BSP/02/2021

1. . Trade name of the building product:

Set of building products for assembly of BSP aluminum substructure

2. Designation of the type of the building product:

Set of building products for assembly of claddings on engineering objects:

1. **Brackets: KW1**
2. **Profiles: KWR1, KWR2, KWR9, KWR10, KWR12, KWRG**
3. **Hanging profiles: KWRW, KWRZ**
4. **Hangers: KWRW, KWRZ**

3. Intended use:

Set of building products for use in communication construction.

4. Name and address of the manufacturer and place of the manufacturing of the product:

BSP Bracket System Polska Sp. z o.o.
ul. Prochowa 35 lok. 31,
04-388 Warszawa
Tel. +48 22 243 09 70
Email: info@bspsystem.com

5. Name and address of the registered office of the authorized representative: **N/A**

6. Polish domestic system used for the assessment and for the verification of the constancy of performance: **2+**

7. Polish domestic technical specification:

7b. National Technical Assessment:

IBDiM-KOT-2020/0556 edition 1 „Set of building products for assembly of claddings on engineering objects"

Technical Assessment Body/National Technical Assessment Body:

Road and Bridge Research Institute – accreditation No. AC 052

Name of accredited certification body, number of accreditation and number of national certificate or name of accredited laboratory/laboratories and number of accreditation:

Certbud Sp. z o.o. – No. AC 158 (Certificate No. UWB-Z1985)

8. Declared performance:

Principal characteristics of the product for intended use	***Declared performance***	***Remarks***
Resistance to horizontal and vertical load	Tables D1-D2	According to ETAG 034 and EAD 090034-00-0404:2016
Resistance to corrosion of unprotected sets of products	Environment category: C1, C2, C3	According to PN-EN ISO 9223:2012
Resistance to corrosion of sets of products protected with anodic coating of thickness ≥ 20 µm or paint coating of average thickness ≥ 160 µm and thickness of single measurement ≥ 115 µm	Environment category: C1, C2, C3, C4, C5	According to PN-EN ISO 9223:2012
Classification in terms of reaction to fire	Class A1	According to PN-EN 13501-1+A1:2010
Classification in terms of fire propagation through external walls when exposed to fire from the outside	Not spreading fire (NRO)	According to PN-B-02867:2013
Dimension and shape tolerance	Group I	According to PN-EN 755-9:2016

Table D1. Resistance of brackets to vertical and horizontal load – characteristic values

Lp	Bracket dimensions [mm]		Characteristic load [1] [N]							
			Vertical on deflection					Horizontal on deflection		
	A (length)	B (height)	0,2*L_x[2]	1 mm	3 mm	max[3]	permanent 0,2*L_x[2]	1 mm	permanent 1 mm	max[3]
1	≤ 170	≥ 60	76	138	236	1377	81	545	1902	3726
		≥ 90	76	138	236	1377	81	545	1902	3726
		≥ 120	165	443	1035	4362	626	786	2241	7243
		≥ 150	165	443	1035	4362	626	786	2241	7243
2	≤ 220	≥ 60	40	67	137	848	54	734	2185	4901
		≥ 90	76	147	319	1819	115	864	2403	6028
		≥ 120	163	343	772	3535	542	1110	3806	8936
		≥ 150	133	217	606	3672	857	1149	4153	10692
3	≤ 260	≥ 60	40	67	137	848	54	674	2155	7014
		≥ 90	53	94	212	1164	110	586	2212	8275
		≥ 120	94	152	460	2794	515	1110	3806	8936
		≥ 150	133	217	606	3612	857	1149	4153	10692
4	≤ 280	≥ 60	32	46	86	130	7	432	1713	4790
		≥ 90	53	94	212	1164	110	586	2212	8275
		≥ 120	94	152	460	2794	515	832	3552	9749
		≥ 150	133	217	606	3672	857	832	3552	9749
5	≤ 310	≥ 60	40	63	135	603	95	953	2527	5833
		≥ 90	56	83	144	1043	106	985	2627	9301
		≥ 120	110	162	412	2374	359	1327	3835	9975
		≥ 150	135	192	540	3034	719	1471	4554	11916

[1] load calculated with probability of 75%, that 95% results will be bigger than value
[2] acceptable deflection L_x=A/100
[3] damage

Table D2. Resistance of hangers to horizontal load – avarage values

Connection type	Load value on permanent deflection 1 mm [N]	Load value at damage [N]
KWRW hanger of length ≥ 60 mm with KWRW or KWRZ profile: case of maximum profile extension by M6 bolt	957	3025
KWRZ hanger of length ≥ 60 mm with KWRW profile: case of maximum profile extension by M6 bolt	957	3025
KWRW hanger of length ≥ 60 mm with KWRW or KWRZ profile: case of minimal profile extension	755	3919
KWRZ hanger of length ≥ 60 mm with KWRW profile: case of minimal profile extension	755	3919
KWRZ hanger of length ≥ 60 mm with KWRZ profile: case of maximum profile extension by M6 bolt	3681	10966
KWRZ hanger of length ≥ 60 mm with KWRZ profile: case of minimal profile extension	3054	14576

9. The performance of the products defined above are compliant with all the performance declared in point 8. The present Polish domestic declaration of performance is issued in accordance with the Act of Parliament dated 16th April 2004 on building products under the exclusive responsibility of the manufacturer.

On behalf of the manufacturer:

Marcin Kwieciński – Chairman of the Board
Mateusz Nowak – Member of the Board

(first and last name)

BracketSystem Polska Sp. z o.o. Mateusz Nowak Członek Zarządu

Warsaw, 02.03.2021

(place and date) *(signs)*