www.dudek-group.pl
Tel. +48 77 421 12 599
ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
POLAND

CE

Kotórz Mały 31.08.2026

DECLARATION OF PERFORMANCE

NR: DIB_CPR_003_EN

According EU Regulation no. 305/2011 dated 9.03.2011

1. Identification code of the products:

   Light composite woodbased beams and columns Dudek I-Beams type DIB

   Identification code is printed on each I-beam.

   Consists of product type, dimension, production date, ETA.- and Sintef-number

2. Intended use:

   Structural components in dry conditions as load-bearing parts of building constructions.

3. Name and address of the manufacturer:

   STOLARSTWO IMPORT-EXPORT
   DUDEK H&H Sp.j.
   ul. Opolska 48, 46-045 Kotórz Mały, Poland
   tel. +48 (0) 77 4212 028
   http://dudek-group.pl E-mail: ibeams@dudek-hh.pl

4. Name and address of authorised representative:

   not relevant

5. System of assessment and verification of constancy of performance:

   AVCP System 1

6. The notified factory production control certification body:

   The notified body TZUS, Technický a zkušební ústav stavební Praha, s.p.

   based on EAD 130367-00-0304

   The notified body-No. 1020 – has performed initial inspections of the manufacturing plant and of factory production control, initial type testing and performs continuous surveillance, assessment and evaluation of factory production control.

   TZUS has issued the approval ETA 14/0181 version 2 dated 20.02.2021

7. Right Technical Documentation:

   not relevant

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ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
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8. Declared performance:

According to **ETA-14/0181**

Essential characteristics	Performance
Mechanical properties	
Service classes (EN 1995-1-1)	1 i 2
Mechanical properties	The mechanical properties are given in Annex no. 1
Seismic actions	No Performance Determined regarding use in areas where seismic actions may occur.
Dimensions:	
Depth of I-beam	200-500 mm
Length of I-beam	up to 16 000 mm
Width of flange	47 - 90 mm
Depth of flange	47 mm
Web thickness	10/11 mm
Attack from insects	Durability may be reduced by attack from insects such as longhorn beetle, dry wood termites and anobium in regions where theses may be found.
BWR 2 Safety in case of fire	
Reaction to fire:	D-s2, d0 according to EN 13501-1+A1
Fire resistance	Fire resistance should be classified as a complete structural element.
BWR 3 Hygiene, health and environment	
Formaldehyde release	DIB do not contain any other harmful or dangerous substances as defined by the relevant EU legislation.
Release of formaldehyd	≤ 0.062 mg/m³, based on declarations and documentation provided by the suppliers of the constituent raw materials. Compliance with Commission Regulation (EU) 2023/1464 amending Annex XVII to REACH.
BWR 6 Energy economy and heat retention	
The thermal conductivity for OSB webs and flange material	0,13 W/(mK) according to EN ISO 10456

The mechanical properties given in this declaration can be used for calculations according to EN 1995 (Eurocode 5)

The performance of the product identified is in conformity with the declared performance.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Stolarstwo Import - Export
Dudek H&H Sp.j.
46-045 Kotórz Mały
ul. Opolska 48

Signed for and on the behalf of the manufacturer by

Mariusz Morcinek

www.dudek-group.pl
Tel. +48 77 421 12 599
ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
POLAND

Mariusz Morcinek, place: Kotórz Mały 2026-08-31

Annex No. 1

To Declaration of Performance - DIB_CPR_003_EN

Table A1. Cross-section dimensions of DIB Dudek I-Beams

Type	Dimensions [mm]				
	H	b_f	h_f	h_w	b_w
DIB 47/200	200	47	47	106	10/11
DIB 47/220	220	47	47	126	10/11
DIB 47/240	240	47	47	146	10/11
DIB 47/250	250	47	47	156	10/11
DIB 47/280	280	47	47	186	10/11
DIB 47/300	300	47	47	206	10/11
DIB 47/350	350	47	47	256	10/11
DIB 47/360	360	47	47	266	10/11
DIB 47/400	400	47	47	306	10/11
DIB 47/450	450	47	47	356	10/11
DIB 47/500	500	47	47	406	10/11
DIB 72/200	200	72	47	106	10/11
DIB 72/220	220	72	47	126	10/11
DIB 72/240	240	72	47	146	10/11
DIB 72/250	250	72	47	156	10/11
DIB 72/280	280	72	47	186	10/11
DIB 72/300	300	72	47	206	10/11
DIB 72/350	350	72	47	256	10/11
DIB 72/360	360	72	47	266	10/11
DIB 72/400	400	72	47	306	10/11
DIB 72/450	450	72	47	356	10/11
DIB 72/500	500	72	47	406	10/11

Manufacturing tolerances, Tolerances in mm

Joist depth – H : *-2 to + 2*

Joist width – bf : *-2 to + 2*

Flange depth – hf : *-2 to + 2*

Web thickness – bw : *- 0.8 to + 0.8*

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Tel. +48 77 421 12 599
ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
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Table A1. Cross-section dimensions of DIB Dudek I-Beams cd.

Typ	Dimensions [mm]				
	H	b_f	h_f	h_w	b_w
DIB 60/200	200	60	45	110	10/11
DIB 60/220	220	60	45	130	10/11
DIB 60/240	240	60	45	150	10/11
DIB 60/250	250	60	45	160	10/11
DIB 60/280	280	60	45	190	10/11
DIB 60/300	300	60	45	210	10/11
DIB 60/350	350	60	45	260	10/11
DIB 60/360	360	60	45	270	10/11
DIB 60/400	400	60	45	310	10/11
DIB 60/450	450	60	45	360	10/11
DIB 60/500	500	60	45	410	10/11
DIB 90/200	200	90	45	110	10/11
DIB 90/220	220	90	45	130	10/11
DIB 90/240	240	90	45	150	10/11
DIB 90/250	250	90	45	160	10/11
DIB 90/280	280	90	45	190	10/11
DIB 90/300	300	90	45	210	10/11
DIB 90/350	350	90	45	260	10/11
DIB 90/360	360	90	45	270	10/11
DIB 90/400	400	90	45	310	10/11
DIB 90/450	450	90	45	360	10/11
DIB 90/500	500	90	45	410	10/11

Manufacturing tolerances, Tolerances in mm

Joist depth – H : *-2 to + 2*

Joist width – bf : *-2 to + 2*

Flange depth – hf : *-2 to + 2*

Web thickness – bw : *- 0.8 to + 0.8*

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ul. Opolska 48
46-045 Kotórz Mały
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Table A2. Instantaneous cross-sectional characteristics and stiffnesses

Type	Cross-section area	Bending stiffness	Shear stiffness
	$A_{eff,inst}$	$E_{0,mean}I_{y,eff,inst}$	$G_{w,inst}A_w$
	[mm^2]	[kNm^2]	[kN]
DIB 47/200	4510,51	285,62	1352,16
DIB 47/220	4579,60	363,39	1568,16
DIB 47/240	4648,69	451,23	1784,16
DIB 47/250	4683,24	498,97	1892,16
DIB 47/280	4786,87	657,75	2216,16
DIB 47/300	4855,96	776,72	2432,16
DIB 47/350	5028,69	1121,24	2972,16
DIB 47/360	5063,24	1198,37	3080,16
DIB 47/400	5201,42	1534,91	3512,16
DIB 47/450	5374,15	2020,09	4052,16
DIB 47/500	5546,87	2579,17	4592,16
DIB 72/200	6860,51	441,66	1352,16
DIB 72/220	6929,60	561,56	1568,16
DIB 72/240	6998,69	696,71	1784,16
DIB 72/250	7033,24	770,05	1892,16
DIB 72/280	7136,87	1013,35	2216,16
DIB 72/300	7205,96	1195,14	2432,16
DIB 72/350	7378,69	1719,32	2972,16
DIB 72/360	7413,24	1836,25	3080,16
DIB 72/400	7551,42	2344,95	3512,16
DIB 72/450	7724,15	3074,42	4052,16
DIB 72/500	7896,87	3910,09	4592,16

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Tel. +48 77 421 12 599
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ul. Opolska 48
46-045 Kotórz Mały
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Table A2. Instantaneous cross-sectional characteristics and stiffnesses cd.

Type	Cross-section area	Bending stiffness	Shear stiffness
	$A_{eff,inst}$	$E_{0,mean}I_{y,eff,inst}$	$G_{w,inst}A_w$
	[mm^2]	[kNm^2]	[kN]
DIB 60/200	5506,33	358,75	1395,36
DIB 60/220	5575,42	455,37	1611,36
DIB 60/240	5644,51	564,26	1827,36
DIB 60/250	5679,05	623,35	1935,36
DIB 60/280	5782,69	819,44	2259,36
DIB 60/300	5851,78	966,03	2475,36
DIB 60/350	6024,51	1389,18	3015,36
DIB 60/360	6059,05	1483,67	3123,36
DIB 60/400	6197,24	1895,16	3555,36
DIB 60/450	6369,96	2486,36	4095,36
DIB 60/500	6542,69	3165,14	4635,36
DIB 90/200	8206,33	542,15	1395,36
DIB 90/220	8275,42	687,77	1611,36
DIB 90/240	8344,51	851,61	1827,36
DIB 90/250	8379,05	940,40	1935,36
DIB 90/280	8482,69	1234,49	2259,36
DIB 90/300	8551,78	1453,86	2475,36
DIB 90/350	8724,51	2084,90	3015,36
DIB 90/360	8759,05	2225,43	3123,36
DIB 90/400	8897,24	2835,91	3555,36
DIB 90/450	9069,96	3709,26	4095,36
DIB 90/500	9242,69	4707,32	4635,36

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ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
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Table A3. Characteristic design properties of DIB - Dudek I-Beams
Instantaneous characteristic values of resistance
($k_{mod,f}$ = 1.0; $k_{mod,w}$ = 1.0; $\gamma_{M,f}$ = 1.0; $\gamma_{M,w}$ = 1.0; $k_{def,f}$ = 0.6; $k_{def,w}$ = 1.5)

Type	Shear resistance		Moment resistance			Buckling resistance			Pressure resistance in column fastening				
	V_k	$V_{k,l,t}$	$M_{k,f1}$	$M_{k,f2}$	$M_{k,w}$	N_k	$N_{k,b,y}$	$N_{k,b,z}$	$N_{k,90,end1}$	$N_{k,90,end2}$	$N_{k,90,end3}$	$N_{k,90,mid1}$	$N_{k,90,mid2}$
	[kN]	[kN]	[kNm]	[kNm]	[kNm]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]
DIB 47/200	10,40	5,20	6,18	4,64	14,04	91,45	81,74	6,26	11,02	18,80	23,50	23,21	30,55
DIB 47/220	11,76	5,85	7,14	5,22	15,03	92,38	85,11	6,27	11,02	18,80	23,50	23,21	30,55
DIB 47/240	13,12	6,51	8,11	5,81	16,10	93,31	87,74	6,27	11,02	18,80	23,50	23,21	30,55
DIB 47/250	13,80	6,84	8,60	6,10	16,67	93,77	88,88	6,27	11,02	18,80	23,50	23,21	30,55
DIB 47/280	15,84	7,85	10,09	7,00	18,43	95,17	91,84	6,28	11,02	18,80	23,50	23,21	30,55
DIB 47/300	17,20	8,53	11,11	7,61	19,65	96,09	93,56	6,28	11,02	18,80	23,50	23,21	30,55
DIB 47/350	20,60	10,25	13,68	9,14	22,82	98,42	97,34	6,29	11,02	18,80	23,50	23,21	30,55
DIB 47/360	21,28	10,60	14,20	9,45	23,47	98,88	98,03	6,30	11,02	18,80	23,50	23,21	30,55
DIB 47/400	24,00	12,00	16,31	10,71	26,14	100,74	100,69	6,31	11,02	18,80	23,50	23,21	30,55
DIB 47/450	26,94	13,79	19,00	12,30	29,57	103,06	103,06	6,32	11,02	18,80	23,50	23,21	30,55
DIB 47/500	26,56	15,61	21,74	13,92	33,10	105,38	105,38	6,33	11,02	18,80	23,50	23,21	30,55

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Tel. +48 77 421 12 599
ibeams@dudek-hh.pl
ul. Opolska 48
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Table A3. Characteristic design properties of DIB - Dudek I-Beams cd.
Instantaneous characteristic values of resistance
($k_{mod,f}$ = 1.0; $k_{mod,w}$ = 1.0; $\gamma_{M,f}$ = 1.0; $\gamma_{M,w}$ = 1.0; $k_{def,f}$ = 0.6; $k_{def,w}$ = 1.5)

Type	Shear resistance		Moment resistance			Buckling resistance			Pressure resistance in column fastening				
	V_k	$V_{k,l,t}$	$M_{k,f1}$	$M_{k,f2}$	$M_{k,w}$	N_k	$N_{k,b,y}$	$N_{k,b,z}$	$N_{k,90,end1}$	$N_{k,90,end2}$	$N_{k,90,end3}$	$N_{k,90,mid1}$	$N_{k,90,mid2}$
	[kN]	[kN]	[kNm]	[kNm]	[kNm]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]
DIB 72/200	10,40	5,14	9,59	7,23	21,71	140,80	126,00	21,86	16,88	28,80	36,00	35,55	46,80
DIB 72/220	11,76	5,79	11,07	8,13	23,22	141,73	130,74	21,87	16,88	28,80	36,00	35,55	46,80
DIB 72/240	13,12	6,43	12,57	9,04	24,86	142,66	134,31	21,88	16,88	28,80	36,00	35,55	46,80
DIB 72/250	13,80	6,76	13,33	9,50	25,72	143,12	135,82	21,88	16,88	28,80	36,00	35,55	46,80
DIB 72/280	15,84	7,74	15,64	10,89	28,39	144,52	139,63	21,90	16,88	28,80	36,00	35,55	46,80
DIB 72/300	17,20	8,40	17,19	11,82	30,23	145,44	141,77	21,90	16,88	28,80	36,00	35,55	46,80
DIB 72/350	20,60	10,08	21,14	14,17	34,99	147,77	146,32	21,93	16,88	28,80	36,00	35,55	46,80
DIB 72/360	21,28	10,41	21,93	14,64	35,97	148,23	147,13	21,93	16,88	28,80	36,00	35,55	46,80
DIB 72/400	24,00	11,77	25,15	16,55	39,93	150,09	150,09	21,95	16,88	28,80	36,00	35,55	46,80
DIB 72/450	26,94	13,49	29,23	18,96	45,00	152,41	152,41	21,97	16,88	28,80	36,00	35,55	46,80
DIB 72/500	26,56	15,22	33,36	21,40	50,18	154,73	154,73	21,99	16,88	28,80	36,00	35,55	46,80

www.dudek-group.pl
Tel. +48 77 421 12 599
ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
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Table A3. Characteristic design properties of DIB - Dudek I-Beams cd.
Instantaneous characteristic values of resistance
($k_{mod,f}$ = 1.0; $k_{mod,w}$ = 1.0; $\gamma_{M,f}$ = 1.0; $\gamma_{M,w}$ = 1.0; $k_{def,f}$ = 0.6; $k_{def,w}$ = 1.5)

Type	Shear resistance		Moment resistance			Buckling resistance			Pressure resistance in column fastening				
	V_k	$V_{k,l,t}$	$M_{k,f1}$	$M_{k,f2}$	$M_{k,w}$	N_k	$N_{k,b,y}$	$N_{k,b,z}$	$N_{k,90,end1}$	$N_{k,90,end2}$	$N_{k,90,end3}$	$N_{k,90,mid1}$	$N_{k,90,mid2}$
	[kN]	[kN]	[kNm]	[kNm]	[kNm]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]
DIB 60/200	10,54	5,22	7,77	5,78	16,99	112,26	100,71	12,29	14,06	24,00	30,00	29,63	39,00
DIB 60/220	11,90	5,87	8,95	6,50	18,25	113,19	104,56	12,30	14,06	24,00	30,00	29,63	39,00
DIB 60/240	13,26	6,52	10,16	7,22	19,60	114,12	107,53	12,31	14,06	24,00	30,00	29,63	39,00
DIB 60/250	13,94	6,85	10,76	7,59	20,30	114,58	108,81	12,31	14,06	24,00	30,00	29,63	39,00
DIB 60/280	15,98	7,85	12,61	8,69	22,47	115,97	112,08	12,32	14,06	24,00	30,00	29,63	39,00
DIB 60/300	17,34	8,52	13,85	9,43	23,97	116,90	113,96	12,32	14,06	24,00	30,00	29,63	39,00
DIB 60/350	20,74	10,22	17,01	11,31	27,84	119,22	118,04	12,34	14,06	24,00	30,00	29,63	39,00
DIB 60/360	21,42	10,57	17,65	11,69	28,63	119,69	118,78	12,34	14,06	24,00	30,00	29,63	39,00
DIB 60/400	24,14	11,95	20,23	13,23	31,85	121,54	121,54	12,35	14,06	24,00	30,00	29,63	39,00
DIB 60/450	26,78	13,70	23,50	15,16	35,99	123,87	123,87	12,37	14,06	24,00	30,00	29,63	39,00
DIB 60/500	26,41	15,48	26,83	17,13	40,22	126,19	126,19	12,38	14,06	24,00	30,00	29,63	39,00

www.dudek-group.pl
Tel. +48 77 421 12 599
ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
POLAND

Table A3. Characteristic design properties of DIB - Dudek I-Beams cd.
Instantaneous characteristic values of resistance
($k_{mod,f}$ = 1.0; $k_{mod,w}$ = 1.0; $\gamma_{M,f}$ = 1.0; $\gamma_{M,w}$ = 1.0; $k_{def,f}$ = 0.6; $k_{def,w}$ = 1.5)

Type	Shear resistance		Moment resistance			Buckling resistance			Pressure resistance in column fastening				
	V_k	$V_{k,l,t}$	$M_{k,f1}$	$M_{k,f2}$	$M_{k,w}$	N_k	$N_{k,b,y}$	$N_{k,b,z}$	$N_{k,90,end1}$	$N_{k,90,end2}$	$N_{k,90,end3}$	$N_{k,90,mid1}$	$N_{k,90,mid2}$
	[kN]	[kN]	[kNm]	[kNm]	[kNm]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]
DIB 90/200	10,54	5,18	11,77	8,79	25,68	168,96	151,72	39,84	21,09	36,00	45,00	44,44	58,50
DIB 90/220	11,90	5,82	13,56	9,88	27,57	169,89	157,10	39,86	21,09	36,00	45,00	44,44	58,50
DIB 90/240	13,26	6,46	15,38	10,97	29,58	170,82	161,12	39,88	21,09	36,00	45,00	44,44	58,50
DIB 90/250	13,94	6,79	16,30	11,52	30,62	171,28	162,81	39,89	21,09	36,00	45,00	44,44	58,50
DIB 90/280	15,98	7,77	19,07	13,19	33,85	172,67	167,04	39,91	21,09	36,00	45,00	44,44	58,50
DIB 90/300	17,34	8,43	20,94	14,30	36,07	173,60	169,40	39,93	21,09	36,00	45,00	44,44	58,50
DIB 90/350	20,74	10,09	25,68	17,12	41,78	175,92	174,34	39,97	21,09	36,00	45,00	44,44	58,50
DIB 90/360	21,42	10,42	26,64	17,69	42,95	176,39	175,21	39,98	21,09	36,00	45,00	44,44	58,50
DIB 90/400	24,14	11,77	30,49	19,97	47,67	178,24	178,24	40,01	21,09	36,00	45,00	44,44	58,50
DIB 90/450	26,78	13,46	35,36	22,85	53,69	180,57	180,57	40,06	21,09	36,00	45,00	44,44	58,50
DIB 90/500	26,41	15,17	40,29	25,76	59,82	182,89	182,89	40,10	21,09	36,00	45,00	44,44	58,50

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Tel. +48 77 421 12 599
ibeams@dudek-hh.pl
ul. Opolska 48
46-045 Kotórz Mały
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Table A3 – notes

V_k [kN]	shear resistance if the web area only is considered
$V_{k,l,t}$ [kN]	longitudinal shear resistance in the glue line between flanges and web
$M_{k,f1}$ [kNm]	bending resistance at the upper edge of the flange
$M_{k,f2}$ [kNm]	bending resistance at the centroid of the flange
$M_{k,w}$ [kNm]	bending resistance at the upper edge of the web
N_k [kN]	compression resistance parallel to the grain without buckling
$N_{k,b,y}$ [kN]	compression resistance parallel to the grain with buckling corresponding to bending about the y-axis (deflection in the z-direction) (Lcr,y = 3000 mm)
$N_{k,b,z}$ [kN]	compression resistance parallel to the grain with buckling corresponding to bending about the z-axis (deflection in the y-direction) (Lcr,z = 3000 mm)
$N_{k,90,end1}$ [kN]	compression resistance perpendicular to the grain at the end of the beam (l = 45 mm)
$N_{k,90,end2}$ [kN]	compression resistance perpendicular to the grain at the end of the beam (l = 98 mm)
$N_{k,90,end3}$ [kN]	compression resistance perpendicular to the grain at the end of the beam (l = 130 mm)
$N_{k,90,mid1}$ [kN]	compression resistance perpendicular to the grain in the middle of the beam (l = 98 mm)
$N_{k,90,mid2}$ [kN]	compression resistance perpendicular to the grain in the middle of the beam (l = 148 mm)