KLIMAS Sp. z o.o.
ul. Wincentego Witosa 135/137
Kuźnica Kiedrzyńska 42-233 Mykanów
tel. +48 34 3777 100, fax +48 34 328 01 73

CE 16

DECLARATION OF PERFORMANCE No 28/SZ/16

1. Unique identification code of the product-type: **WB6P, WB6P-D, A2-WB6P**
2. Intended use/es: **Fastening screws for sandwich panels**
3. Manufacturer: **KLIMAS Sp. z o.o.**
   ul. Wincentego Witosa 135/137
   Kuźnica Kiedrzyńska 42-233 Mykanów
4. Authorised representative: **not applicable**
5. System/s of AVCP: **system 2+**
6. European Assessment Document:
   a) **European Assessment Document (EAD) 330047-01-0602 „Fastening screws for sandwich panels"**
   b) **European Technical Assessments – ETA-16/0444 of 30/06/2016**
   c) **Instytut Techniki Budowlanej**
   d) **Identification number of notified body- 1488**
7. Declared performance/s:

Self-drilling screws with hexagon head and sealing washer ϕ19 – WB6P-6,3 x L, WB6Px-6,3 x L, WB6P-D-6,3 x L

Material
Fastener: carbon steel – SAE1022
quenched, tempered and galvanized (≥ 12 µm)

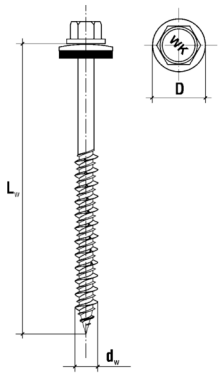
Washer: EPDM sealing ring with metal top
made of coated carbon steel or stainless steel

Component I: S280GD, S320GD or S350GD – EN 10346

Component II: structural timber – EN 14081

Drilling capacity: -

Timber substructures
For timber substructures performance assessed with
$M_{y,Rk}$ = 8,910 Nm
$f_{ax,k}$ = 16,586 N/mm² for l_{ef} ≥ 30 mm



L_w = 50-300 mm
d_w = 6,3 mm
D ≥ 19 mm

Characteristic resistance of shear and pull-out load

Component II: t_{II} in [mm]			**≥ 30**	**-**	**-**	**-**	**-**
Component I: $t_{N,1}$ or $t_{N,2}$ w [mm]	**Shear load $V_{R,k}$ [kN]**	**0,40**	0,87	-	-	-	-
		0,50	1,35	-	-	-	-
		0,55	1,35	-	-	-	-
		0,63	1,70	-	-	-	-
		0,75	2,10	-	-	-	-
		0,88	2,10	-	-	-	-
		1,00	2,10	-	-	-	-
	Pull-out load $N_{R,k}$ [kN]	**0,40**	1,83	-	-	-	-
		0,50	3,13	-	-	-	-
		0,55	3,13	-	-	-	-
		0,63	3,13	-	-	-	-
		0,75	3,13	-	-	-	-
		0,88	3,13	-	-	-	-
		1,00	3,13	-	-	-	-

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max. head displacement u depending on the sandwich panel thickness in [mm]	**30**	1	-	-	-	-
	40	1	-	-	-	-
	50	1	-	-	-	-
	60	1,5	-	-	-	-
	70	1,5	-	-	-	-
	80	1,5	-	-	-	-
	90	2	-	-	-	-
	100	2	-	-	-	-
	120	2	-	-	-	-
	>140	2	-	-	-	-

Self-drilling screws with hexagon head and sealing washer ϕ19 – WB6P-6,3 x L, WB6Px-6,3 x L, WB6P-D-6,3 x L

Material
Fastener: carbon steel – SAE1022
quenched, tempered and galvanized (≥ 12 µm)

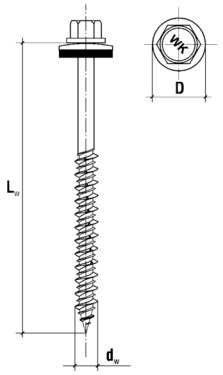
Washer: EPDM sealing ring with metal top made of aluminium

Component I: S280GD, S320GD or S350GD – EN 10346

Component II: structural timber – EN 14081

Drilling capacity: -

Timber substructures
For timber substructures performance assessed with
$M_{y,Rk}$ = 8,910 Nm
$f_{ax,k}$ = 16,586 N/mm² for l_{ef} ≥ 30 mm



L_w = 30-300 mm
d_w = 6,3 mm
D ≥ 19 mm

Characteristic resistance of shear and pull-out load

Component II: t_{II} in [mm]			**≥ 30**	-	-	-	-
Component I: $t_{N,1}$ or $t_{N,2}$ w [mm]	Shear load $V_{R,k}$ [kN]	**0,40**	0,87	-	-	-	-
		0,50	1,35	-	-	-	-
		0,55	1,35	-	-	-	-
		0,63	1,70	-	-	-	-
		0,75	2,10	-	-	-	-
		0,88	2,10	-	-	-	-
		1,00	2,10	-	-	-	-
	Pull-out load $N_{R,k}$ [kN]	**0,40**	1,83	-	-	-	-
		0,50	3,13	-	-	-	-
		0,55	3,13	-	-	-	-
		0,63	3,13	-	-	-	-
		0,75	3,13	-	-	-	-
		0,88	3,13	-	-	-	-
		1,00	3,13	-	-	-	-
max. head displacement u depending on the sandwich panel thickness in [mm]		**30**	1	-	-	-	-
		40	1	-	-	-	-
		50	1	-	-	-	-
		60	1,5	-	-	-	-
		70	1,5	-	-	-	-

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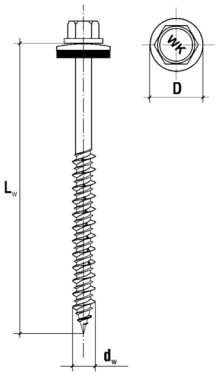
	80	1,5	-	-	-	-
	90	2	-	-	-	-
	100	2	-	-	-	-
	120	2	-	-	-	-
	>140	2	-	-	-	-

Self-drilling screws with hexagon head and sealing washer ϕ19 – A2-WB6P-6,3 x L

Material
Fastener: stainless steel – SAE304
Washer: EPDM sealing ring with metal top made of stainless steel
Component I: S280GD, S320GD or S350GD – EN 10346
Component II: structural timber – EN 14081

Drilling capacity: -

Timber substructures
For timber substructures performance assessed with
$M_{y,Rk}$ = 6,830 Nm
$f_{ax,k}$ = 16,586 N/mm^2 for l_{ef} ≥ 30 mm



L_w = 30-300 mm
d_w = 6,3 mm
D ≥ 19 mm

Characteristic resistance of shear and pull-out load

Component II: t_{II} in [mm]			**≥ 30**	-	-	-	-
Component I: $t_{N,1}$ or $t_{N,2}$ w [mm]	**Shear load $V_{R,k}$ [kN]**	**0,40**	0,87	-	-	-	-
		0,50	1,35	-	-	-	-
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		0,88	2,10	-	-	-	-
		1,00	2,10	-	-	-	-
	Pull-out load $N_{R,k}$ [kN]	**0,40**	1,83	-	-	-	-
		0,50	3,13	-	-	-	-
		0,55	3,13	-	-	-	-
		0,63	3,13	-	-	-	-
		0,75	3,13	-	-	-	-
		0,88	3,13	-	-	-	-
		1,00	3,13	-	-	-	-
max. head displacement u depending on the sandwich panel thickness in [mm]		**30**	1	-	-	-	-
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		50	1	-	-	-	-
		60	1,5	-	-	-	-
		70	1,5	-	-	-	-
		80	1,5	-	-	-	-
		90	2	-	-	-	-
		100	2	-	-	-	-
		120	2	-	-	-	-
		>140	2	-	-	-	-

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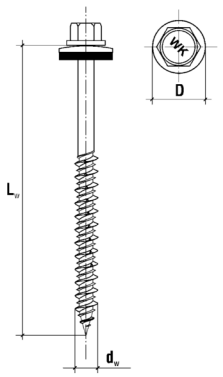
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Self-drilling screws with hexagon head and sealing washer ϕ19 – A2-WB6P-6,3 x L

Material
Fastener: stainless steel – SAE304
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Component I: S280GD, S320GD or S350GD – EN 10346
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Drilling capacity: -

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Characteristic resistance of shear and pull-out load

Component II: t_{II} in [mm]			**≥ 30**	**-**	**-**	**-**	**-**
Component I: $t_{N,1}$ or $t_{N,2}$ w [mm]	**Shear load $V_{R,k}$ [kN]**	**0,40**	0,87	-	-	-	-
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		0,63	1,70	-	-	-	-
		0,75	2,10	-	-	-	-
		0,88	2,10	-	-	-	-
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	Pull-out load $N_{R,k}$ [kN]	**0,40**	1,83	-	-	-	-
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max. head displacement u depending on the sandwich panel thickness in [mm]		**30**	1	-	-	-	-
		40	1	-	-	-	-
		50	1	-	-	-	-
		60	1,5	-	-	-	-
		70	1,5	-	-	-	-
		80	1,5	-	-	-	-
		90	2	-	-	-	-
		100	2	-	-	-	-
		120	2	-	-	-	-
		>140	2	-	-	-	-

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8. Appropriate Technical Documentation and/or Specific Technical Documentation: **not applicable**

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:

Kuźnica Kiedrzyńska
24.08.2016r.
(place and date of issue)

Adam Szczepanowski
DORADCA TECHNICZNY
mgr inż. Adam Szczepanowski
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(signature)