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PRODUCT DATA SHEET – NAS/NASS/NASM

Section 1. PRODUCT DESCRIPTION

BLIND RIVET – NAS/NASS/NASM

Zn/Al

Blind rivets comprise aluminium collar sleeve and mushroom head steel pin guided through the sleeve. To make a connection, holes in steel members to be fixed are drilled and the rivet is inserted and riveting machine is applied. By tightening the pin in the sleeve, as a result of compressive force, a collar is formed on the end of the rivet sleeve. The protruding portion of steel pin of the rivet is automatically sheared.

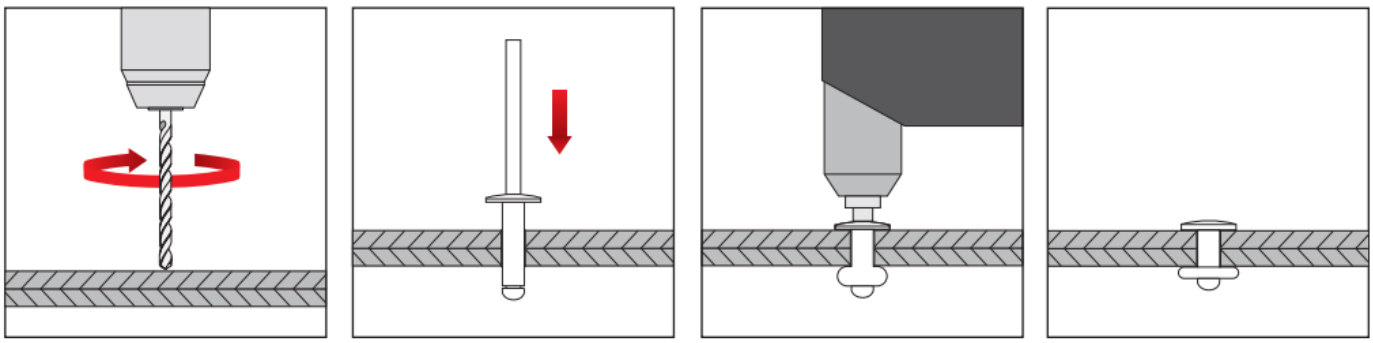
Use:

- **for fixing steel sheets**
- **for fixing thin-walled steel elements**
- **for fixing steel sheets or thin-walled elements to a steel substrate**

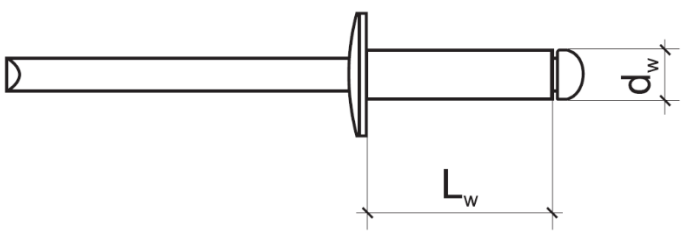
Blind rivets hold National Technical Assessment: ITB-KOT-2021/1954 edition 1

Section 2. METHOD OF INSTALLATION

1. Original blind rivets delivered by the manufacturer can be used only
2. Riveting machines with extensions suitable for core diameters should be used
3. Before installation identify the substrate, its thickness and environmental conditions (expressed as corrosivity categories), and then select rivet which meets the above criteria
4. Correctly select the length of rivet to match a sum of thickness values of the members to be fixed
5. Drill a hole in steel member to be fixed so the diameter of the drilled hole matches diameter recommended for a given rivet
6. Then apply compressive force to the pin of the rivet
7. Under the compressive force a collar is formed on the end of the aluminium sleeve of the rivet and the protruding steel pin is automatically sheared, and in result a long-lasting connection is ensured



Section 3. TECHNICAL DATA



PRODUCT DATA SHEET – NAS/NASS/NASM

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Rivet diameter	d_w [mm]	3,2/4,0/4,8
Rivet material	-	steel, aluminium
Protective coating	-	galvanized zinc coating ≥ 6 µm
Substrate material	-	steel
National Technical Assessment	-	ITB-KOT-2021/1954 edition 1

INSTALLATION PARAMETERS		
Parameter	Unit	Value
Rivet diameter	d_w [mm]	3,2/4,0/4,8
Diameter of hole in the substrate	d_0 [mm]	3,3/4,1/4,9
Min. depth of hole in the substrate	h_0 [mm]	-
Anchorage depth	h_{eff} [mm]	push-through
Min. substrate thickness	h_{min} [mm]	1,0
Min. spacing	s_{min} [mm]	50
Min. distance from edge	c_{min} [mm]	25

RESISTANCE			
Characteristic resistance			
Rivet type	Sheet thickness [mm]	Tensile [kN]	Shearing [kN]
NAS/NASS/NASM-3,2	1+2	0,87	0,96
NAS/NASS/NASM-4,0	1+4	1,21	1,70
NAS/NASS/NASM-4,8	1+5	1,65	1,78

SELECTION TABLE					
Product code	Rivet dimensions	Max. usable length	Bulk packaging (NAS)	Medium-sized packaging (NASS)	Small-sized packaging (NASM)
	d_w x L_w [mm]	t_{fix} [mm]	[kg]	[pcs]	[pcs]
NAS/NASS/NASM-32006	3,2 x 6	1-3	5	1000	50
NAS/NASS/NASM-32008	3,2 x 8	3-5	5	1000	50
NAS/NASS/NASM-32010	3,2 x 10	5-7	5	1000	50
NAS/NASS/NASM-32012	3,2 x 12	7-9	5	1000	50
NAS/NASS/NASM-32014	3,2 x 14	9-11	5	1000	50
NAS/NASS/NASM-32016	3,2 x 16	11-13	5	1000	50
NAS/NASS/NASM-40006	4,0 x 6	1-2,5	5	1000	50
NAS/NASS/NASM-40008	4,0 x 8	3-4,5	5	1000	50
NAS/NASS/NASM-40010	4,0 x 10	5-6,5	5	1000	50
NAS/NASS/NASM-40012	4,0 x 12	7-8,5	5	500	50
NAS/NASS/NASM-40014	4,0 x 14	8-10,5	5	500	50
NAS/NASS/NASM-40016	4,0 x 16	10-12,5	5	500	50
NAS/NASS/NASM-40018	4,0 x 18	12-14,5	5	500	50
NAS/NASS/NASM-40020	4,0 x 20	14-16,5	5	500	50
NAS/NASS/NASM-40022	4,0 x 22	16-18,5	5	500	50
NAS/NASS/NASM-40024	4,0 x 24	18-20,5	5	500	50
NAS/NASS/NASM-48008	4,8 x 8	2-4	5	500	50
NAS/NASS/NASM-48010	4,8 x 10	4-6	5	500	50
NAS/NASS/NASM-48012	4,8 x 12	6-8	5	500	50
NAS/NASS/NASM-48014	4,8 x 14	8-10	5	500	50
NAS/NASS/NASM-48016	4,8 x 16	10-12	5	500	50
NAS/NASS/NASM-48018	4,8 x 18	12-14	5	500	50
NAS/NASS/NASM-48020	4,8 x 20	14-16	5	500	50
NAS/NASS/NASM-48022	4,8 x 22	16-18	5	500	50
NAS/NASS/NASM-48024	4,8 x 24	18-20	5	500	50
NAS/NASS/NASM-48030	4,8 x 30	24-26	5	250	50

Section 4. REMARKS

1. All previous versions of this Product Data Sheet shall cease to be valid
2. Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith. KLIMAS Sp. z o.o. is not responsible for correctness and quality of the fixing if recommendations regarding method of use and installation are not followed.