

# Declaration of Conformity

concerning the approval of ZARGES 'case for 19" rackmount equipment'  
in accordance with VG 95211 of the Bundeswehr.

Certain components intended for use in the Bundeswehr (German Armed Forces) require prior approval. The approval tests are performed in accordance with VG 95211. And components that have been approved are included in the database VG 95212. ZARGES is listed in the database as a manufacturer of cases for 19" rackmount equipment.

To receive an approval according to above-mentioned defence equipment standard, the components have to fulfil the specifications set out in VG 95447 Part 1-8. These tests are listed in the appendix of this document.

Testing of the components is performed by the Wehrtechnische Dienststelle der Bundeswehr WTD (Bundeswehr Technical Centre). With a valid certificate, ZARGES is authorised to supply the components for use in defence equipment.


**We hereby confirm that MITRASET CLASSIC has undergone and passed the tests listed subsequently as part of the product approval process.**

Valid until 31/12/2022

ZARGES GmbH  
Zargesstraße 7  
82362 Weilheim, Germany

Date: 15/10/2018

Head of Quality Management



Wolfgang Biehl

Product Manager Packaging & Transport



Tobias Heilmaier

R&D Team Lead Industry & Defence



Stefan Klein

Mailbox address: PO Box 16 30 D-82360 Weilheim	Address: Zargesstraße 7 D-82362 Weilheim	Court of register: Munich HRB 169642 ILN 40 03866 00000 5	Directors: Dr Alexander Bochert Maximilian Treptow
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Test	Details
<b>Dust test</b>	According to DIN EN 60529 (VDE 0470-1) Degree of protection IP 6X
<b>Water tightness</b>	According to DIN EN 60529 (VDE 0470-1) Degree of protection IP X5 Additional: according to ISO 20653:2013-02, degree of protection: IP X9K
<b>Hight temperature</b>	AECTP 300, Ed. 3, Test 302 Procedure I, A1 (+85°C)
<b>Low temperature</b>	AECTP 300, Ed. 3, Test 304 Procedure I, C2 (-51 °C)
<b>Changing temperature</b>	AECTP 300, Ed. 3, Test 304 Procedure 1: 3 x 4 h each at +85 °C and -51 °C
<b>Warm damp</b>	AECTP 300, Ed 3, Test 306 Procedure I (Cyclic) B 3 (Cycle 2) Tmin = 33°C, Tmax = 71°C RHmin = 14 %, RHmax = 80 % Severity C (No of Cycles 21)
<b>Vibration test 1</b>	AECTP 400, Ed. 3, Test 401 Procedure III Annex A Wheeled vehicle vibration, Tactical wheeled vehicle, all terrain – Test axis: Vertical (V), Transversal (T) and Longitudinal (L); – Test time: 40 minutes per axis; – g RMS V 1,97 (reduced by 6 dB below 20 Hz) T 1,62 L 2,05; – Spectrum 500 Hz, random vibration
<b>Vibration test 2</b>	AECTP 400, Ed. 3, Test 401 Procedure III Annex B Tracked vehicle vibration, Heavy vehicle, Material on sponson or in- stalled in hull – Test axis: Vertical (V), Transversal (T) and Longitudinal (L); – Test time: 4 h per axis; – g RMS V 4,65 T 3,7 L 3,7 – Spectrum 5 Hz to 2 000 Hz, random

	vibration
<b>Shock test</b>	Test according to DIN EN 60068-2-27:2010-02 6 main directions with each 3 half-sine shocks; Acceleration of $a = 30 \text{ g}$ ; Pulse time: $t = 11 \text{ ms}$
<b>Mycological test</b>	Test according to DIN EN 60068-2-10:2006-03 Test procedure 1 Test duration 28 d Assessment criterion 2a
<b>Salt fog test</b>	Test according to DIN EN 60068-2-52:1996-10 Test level 2 (5 % NaCl, salt fog exposure 2 h, storage in humid air 22 h, number of cycles 3)
<b>Negative pressure</b>	AECTP 300, Ed. 3, Test 312 Procedure I – Test pressure 57 kPa (corresponds to 4 570 m); – Test duration: $\geq 1 \text{ h}$ ; – Duration of change to test pressure and back 10 min each.
<b>Carrying handles strength</b>	a) Load test: 750 N vertically upwards Test duration: 5 min b) Breaking test: 2500 N vertically upwards
<b>Drop test</b>	AECTP 400, Ed. 3, Test 414 Procedure I
<b>Stacking test</b>	AECTP 400. Ed. 3, Test 410 $\approx 2 \text{ m}$ ; duration 8 d
<b>EMC test</b>	VG 95373-15, test method KS 04 G Frequency range: 30 MHz to 1 GHz