

**ALLIANZ TEKNİK DEPREM & YANGIN TEST VE EĞİTİM MERKEZİ**

Türk-Alman Üniversitesi, Şahinkaya Cad. No:90, 34820 Beykoz / İSTANBUL

Tel: 0216 556 6351 E-posta: allianztekNIK@allianz.com.trWeb: www.allianztekNIK.com.tr**TEST RAPORU**
TEST REPORT

AB-1601-T
EQ-AZTEK-22-082-2
11-22

Müşteri Adı/Adresi Customer Name/Address	: YESPAN Elektrik San. ve Tic. Ltd. Şti. Aydın Organize Sanayi Bölgesi 2.Cadde No: 41 Umurlu/Aydın
Müşteri Temsilci Adı/Adresi Customer Representative Name/Address	: Serkan Üçgül - 3 Gül Danışmanlık Eğitim ve Belgelendirme Hizmetleri İvedik OSB. 1444. Sokak No:10 Kat:1 Yenimahalle/Ankara
Teklif Numarası Order No.	: AZTEK-22-082
Numunenin Adı Ve Tarifi Name And Identity Of Test Item	: YESPAN Outdoor Free Standing Type Modular Enclosure on a transport pallet (Model Number: H Series, Serial Number: YDS22246) Weight: 787 kg in total with 250 kg shelf weights
Numunenin Kabul Tarihi The Date Of Receipt Of Test Item	: 30.08.2022
Uygulanan Standart / Metod Applied Standard / Method	: ASTM D 4169-16 Schedule D - Stacked Vibration (between 1-185 Hz)
Açıklamalar Remarks	: Allianz Teknik confirms that the above referenced item has been tested in accordance with the requirements of ASTM D 4169-16 Schedule D.
Deneyin Yapıldığı Tarih Date Of Test	: 31.08.2022
Raporun Sayfa Sayısı Number Of Pages Of The Report	: 19

Deney laboratuvarı olarak faaliyet gösteren Allianz Teknik, TÜRKAK'tan AB-1601-T akreditasyon dosya numarası ile TS EN ISO/IEC 17025:2017 standardına göre akredite edilmiştir.

Allianz Teknik accredited by TÜRKAK under registration number AB-1601-T for EN ISO/IEC 17025:2017 as test laboratory.

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Bu rapor özel deney talebine istinaden düzenlenmiş olup, Standartlara Uygunluk Belgesi niteliğinde değildir. Partiyi temsil etmez, ayrıca ilan, reklam ve ihalelerde uygunluk belgesi niteliğinde kullanılmaz.

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Mühür/Kaşe

Seal

BEYKOZ GAYRİMENKUL YATIRIM İNŞAAT
TURİZM SANAYİ VE TİCARET A.Ş.
Küçükbakkalköy Mahallesi Kayışdağı Caddesi
No:1 Kat:20 Ataşehir / İSTANBUL

Yayımlandığı Tarih

Report Release Date

14.11.2022

Deney Sorumlusu

Person In Charge Of The Test

Volkan Ayık

Onaylayan / Tarih

Approval /Date

Erkan Özdağ

14.11.2022

1. GENERAL INFORMATION

1.1 Customer

YESPAN Elektrik San. Ve Tic. Ltd. Şti.
Aydın Organize Sanayi Bölgesi 2.Cadde No:41 Umurlu/AYDIN

1.2 Customer Representative

Serkan Üçgül - 3 Gül Danışmanlık Eğitim ve Belgelendirme Hizmetleri
İvedik OSB. 1444. Sokak No:10 Kat:1 Yenimahalle/Ankara

1.3 Unit Under Test (UUT)

The test was performed on the following UUT listed below:

- Description: YESPAN Outdoor Free Standing Type Modular Enclosure on a transport pallet (Model Number: H Series, Serial Number: YDS22246)
- Dimensions: 1200 mm x 800 mm x 2200 mm
- Weight: 787 kg in total with 250 kg shelf weights
- Geometry: Thickness of the frame and doors are 2.5 mm. Thickness of the covers are 2 mm.



Figure 1: YESPAN Outdoor Free Standing Type Modular Enclosure on a transport pallet (Model Number: H Series, Serial Number: YDS22246)

1.4 Manufacturer

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Aydın Organize Sanayi Bölgesi 2.Cadde No:41 Umurlu/AYDIN

1.5 Reference Documents

- ASTM D 4169 - 16 : Standard Practice for Performance Testing of Shipping Containers and Systems
- ASTM D 4728 - 01 : Test Method for Random Vibration Testing of Shipping Containers

1.6 Test Objective

The purpose of the test is to control acceptance criteria specified in Section 7 of the standard as a result of the ASTM D 4169 Schedule D - Stacked Vibration test application and classification of the test sample with a criterion.

1.7 Overall Results

As a result of the test, there was no damage observed on the products, which indicates that this specimen meets the condition of damage-free (Product is damage-free). No damage was observed in the packaging either (Package is intact). As a result, the test specimen meets the Criterion 3 condition specified in ASTM D 4169-16.

In addition to these, a detailed acceptance criterion can be defined according to Article 7.2 and a certain type of damage may be allowed to the product and packaging. These criteria can be of the pass-fail type, or they can be in the form of scoring and analysis.

1.8 Testing Laboratory

Allianz Teknik Earthquake & Fire Testing and Training Center
Türk-Alman Üniversitesi Şahinkaya Cd. No: 90, 34820 Beykoz/ İSTANBUL - TURKEY

1.9 Test Date

31st August 2022

1.10 Test Responsible & Visitors List

Erkan Özdağ, Msc - Allianz Teknik Manager
Volkan Ayık, Msc - Allianz Teknik Earthquake Lab. Supervisor
Berkay Aldırmaz, Msc - Allianz Teknik Test Engineer
Emin Karaş - Allianz Teknik Laboratory Specialist
Serkan Üçgül - 3 Gül Danışmanlık

1.11 Distribution List

Serkan Üçgül - 3 Gül Danışmanlık

1.12 Ambient Conditions

Temperature: 26.2°C
Humidity: 73% RH

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1.13 Measurement Uncertainty

The measurement uncertainty was not applied.

1.14 Decision Rule

The decision rule was not applied.

1.15 Disclaimer

The report source test sample is evaluated as received by Allianz Teknik and the Report is created. Allianz Teknik is not responsible for the results of the test sample due to faulty, incorrect or non-production. Allianz Teknik does not accept any responsibility for the accuracy, completeness and being up-to-date of the information provided by an external party (Customer) and the effects of this information on the results of the Report.

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2. TEST PROCEDURES

2.1 Test Data

Test data contents recommended in Table 2 TRUCK- Power Spectral Densities table under Schedule D heading in Chapter 12 of ASTM D 4169 - 16 are mentioned in Figure 2 and Table 1.

Stacked Vibration test under Schedule D heading is performed in the vertical direction (Z) only.

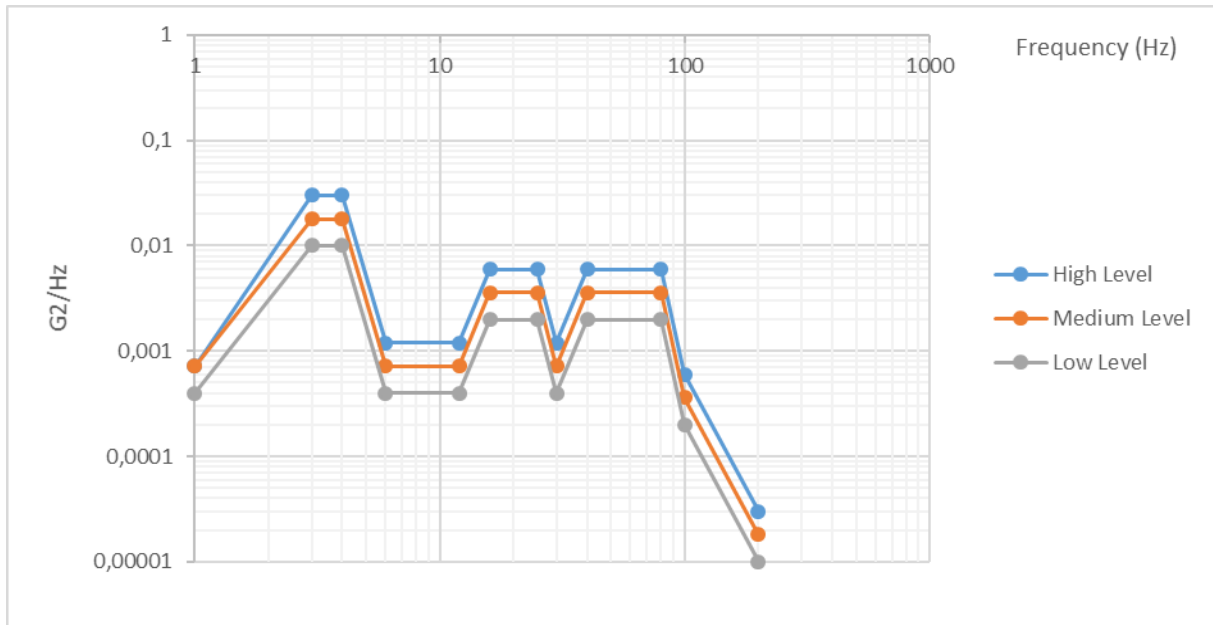


Figure 2. Recommended PSD plot in the standard

Frequency (Hz)	Power Spectral Density (PSD) Level G ² /Hz		
	High Level	Medium Level	Low Level
1	0,00072	0,00072	0,0004
3	0,03	0,018	0,01
4	0,03	0,018	0,01
6	0,0012	0,00072	0,0004
12	0,0012	0,00072	0,0004
16	0,006	0,0036	0,002
25	0,006	0,0036	0,002
30	0,0012	0,00072	0,0004
40	0,006	0,0036	0,002
80	0,006	0,0036	0,002
100	0,0006	0,00036	0,0002
200	0,00003	0,000018	0,00001
Overall Grms	0,7	0,54	0,4

Table 1. Recommended PSD values in the standard

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The test is performed in compliance with the following conditions referring to ASTM 4169-16 *Schedule D*:

- Test data can be performed in random or sinusoidal form. However, a better simulation can be achieved with random form (Article 12.1)
- Test can be performed with a duration varying between 30 minutes and 6 hours, a 3-hour test application is recommended in the absence of specific information (Article 12.4.2)
- Test data mentioned in *Table 1* of this report is performed as a sequence below (Article 12.4.2.1.)
 - 40 minutes of low level
 - 15 minutes of intermediate level
 - 5 minutes of high level
- Test should be performed in 1-hour cycles. This cycle shall be performed 3 times for a 3 hours test.

In Chapter 4 of this report, the compliance of the data generated during the test with the standard is examined in detail.

As stated in EN 60068-2-6 3.2 Measuring Points section, a total of 9 unidirectional accelerometers integrated into the MAST table are used in the 3.2.3. In accordance with the imaginary reference point section, tests were performed on the MAST table surface and an imaginary point at the midpoint of the table. This imaginary reference point is calculated by the test equipment for each axis as "Observed Acceleration".

Test was carried out by providing control as stated in the multiple reference control section referring to 4.2.2 in the 4.2 Control Method section of the EN 60068-2-6 standard.

2.2 Test Setup

The test specimen should be packaged as at actual shipping.

In article 12.2 of the standard, the use of *dead load* is also made possible. If the actual number of stacks during transportation cannot be obtained, a weight that will provide the weight during transportation can be calculated and put on the test samples by multiplying the coefficients defined in the standard.

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3. TEST EQUIPMENT

The summary list of equipment and sensors used in the test and their calibration due dates are given in the following table:

No	Brand	Description	Serial Number	Calibration Due Date
1	MTS	353.20 MAST	EQ1-001	NA
2	HBM	eDAQXR	EQ4-001-E1&E2	22.06.2022
3	Dytran	Accelerometer	12509	06.01.2023
4	Dytran	Accelerometer	12511A	06.01.2023
5	Dytran	Accelerometer	12512	06.01.2023
6	Dytran	Accelerometer	12513	06.01.2023
7	Dytran	Accelerometer	12525A	05.01.2023
8	Dytran	Accelerometer	12526A	06.01.2023
9	Dytran	Accelerometer	12527A	06.01.2023
10	Dytran	Accelerometer	12528	06.01.2023
11	Dytran	Accelerometer	12529	06.01.2023

Table 2. Summary list of the equipment and sensors

3.1 Multi Axial Simulation Table (MAST)

- The test has been performed on MAST system, which is 6 DOF capability.
- The shaker table powered by six servo hydraulic actuator, all of them mounted the table with 120°.
- Each actuator has a maximum 70,6 kN peak force and maximum displacement of 145mm on Z axis, 115 mm on Y axis and 130 mm on X axis.
- The hydraulic pump has 5 engines with a total power 225 KW. It is capable of pumping a flow up to 600 l/min at a working pressure of 210 bars.

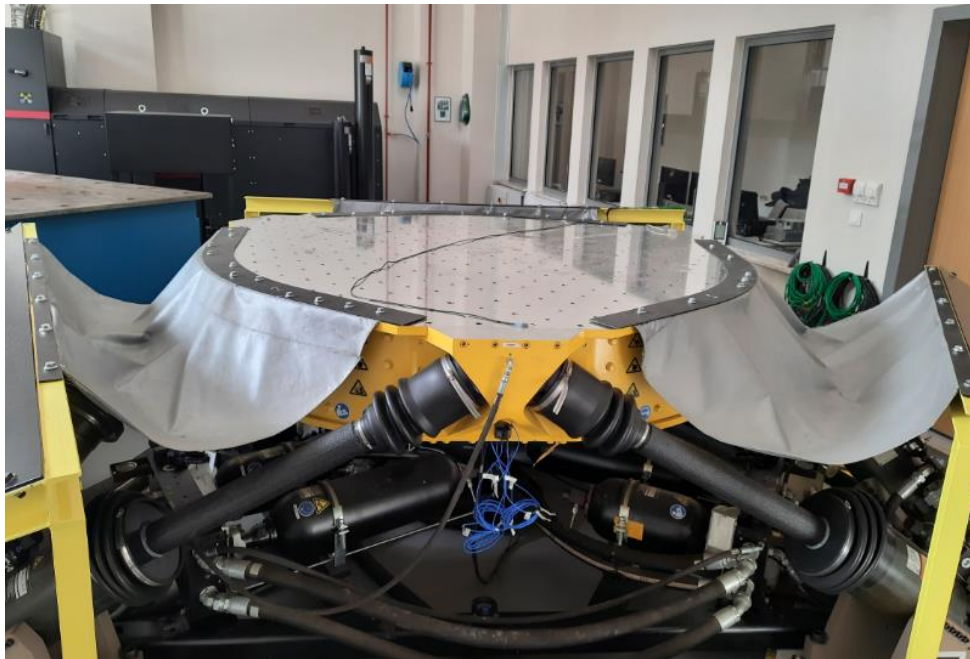


Figure 3. Multi Axial Simulation Table (MAST)

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3.2 Sensors

The accelerometers, integrated into MAST, used during the tests are below:

PCB 3471M39 model accelerometers integrated to MAST:

- Uni-axial
- Acceleration Measurement Range ± 30 g
- Frequency Response 0-1500 Hz

3.3 Data Acquisition Equipment

During the tests, MAST was controlled by a computer-based system, which is MTS RPC Pro, Flex Test controller and EDAQXR datalogger.

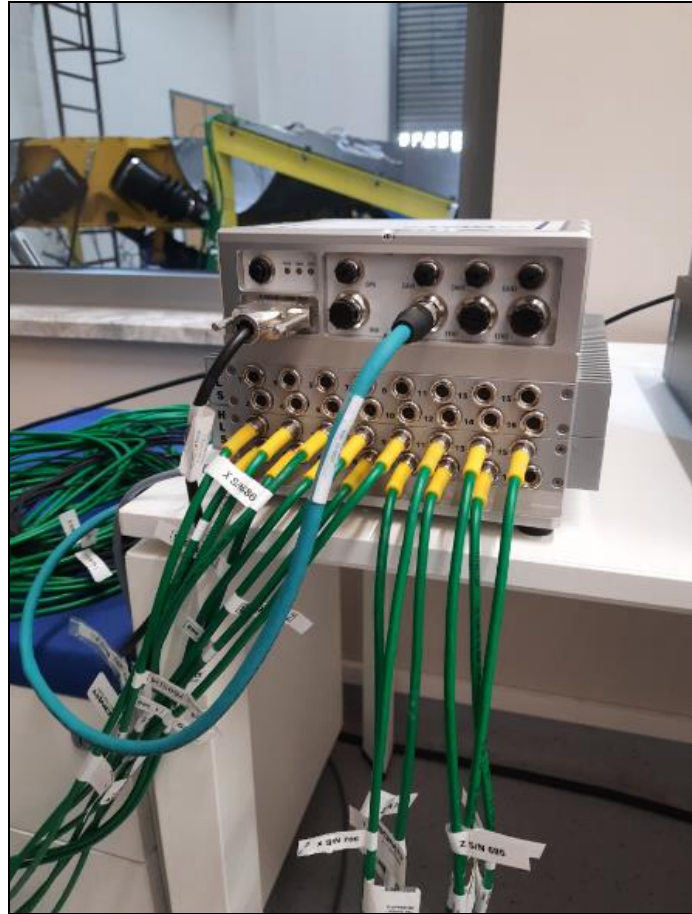


Figure 4. EDAQXR Datalogger

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4. TEST APPLICATION AND MEASUREMENT

The comparison of the realized (actual) data and desired data in the standard as PSD on a logarithmic scale is given in this section through plots.

The tolerance ranges were taken into consideration in accordance with ASTM D 4728-01 (Standard Test Method for Random Vibration Testing of Shipping Containers).

Article 8.4.1 of this standard allows following tolerance deviations:

- For a deviation in the range of ± 3 dB between the PSD of the actual data and the desired PSD,
- For a deviation of ± 6 dB between the PSD of the actual data and the desired PSD, provided that it does not exceed 10 Hz in total over the entire frequency range,
- For a deviation of $\pm 15\%$ between the Grms of the actual data and the Grms of the requested data.

The deviation between the Grms of realized data and requested data specified in the standard is given in Table 3. Values are appropriate (in tolerance).

Grms Comparison	High Level	Medium Level	Low Level	Notes
Requested Overall Grms	0,7	0,54	0,4	
Realized Overall Grms	0,78	0,6	0,42	
Deviation (%)	+11%	+11%	+5%	Accepted tolerance is $\pm 15\%$. These deviation values are appropriate.

Table 3. Grms Comparison

In Figures 5-7, the deviation between the PSD of the realized data and the PSD of the requested data specified in the standard can be seen for three different levels (low, medium, and high level). Deviations in the accredited reportable range (1-185 Hz) is appropriate referring to ASTM D 4728-01 clause 8.4.1.

Explanations of extensions of nomenclature in PSD plots:

- *RFL_asd*, actual data,
- *Desired*, the requested data in the standard,
- *Upper limit*, + 6 dB limit,
- *First high limit*, + 3 dB limit,
- *First low limit*, - 3 dB limit,
- *Lower limit* indicates the -6 dB limit.

The time-domain representation of the realized data in the test is mentioned in Figures 8-10. These random data were played repeatedly on MAST (the vertical axis is acceleration in g and the horizontal axis is time in seconds) providing the test durations specified in section 2.1 of this report.

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High_desired_th_mod_resampled_scale_mod_3_RFL_asd - (1,1) - (Vert Observed Acc,Vert Observed Acc) - (g,g)
 High_firsthighlimit - (1,1) - (row 1,column 1) - (volts,volts)
 High_firstlowlimit - (1,1) - (row 1,column 1) - (volts,volts)
 High_upperlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Low_lowerlimit - (1,1) - (row 1,column 1) - (volts,volts)
 High_desired - (1,1) - (row 1,column 1) - (volts,volts)

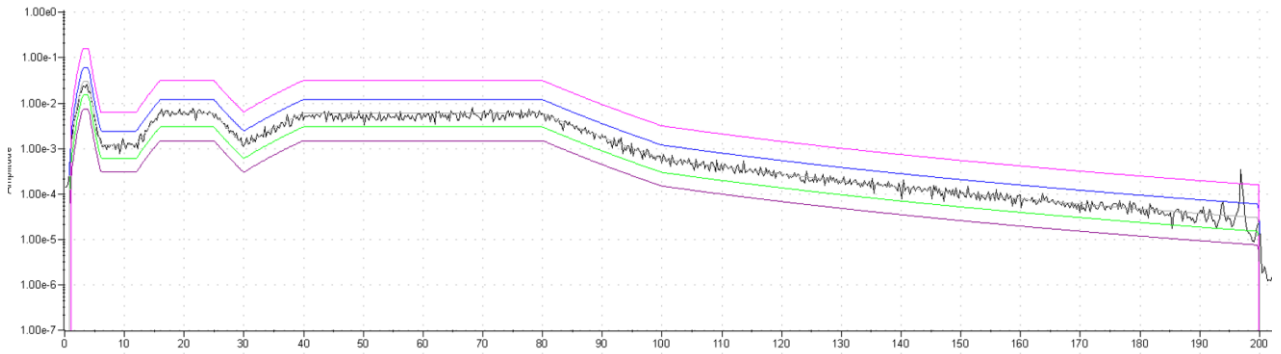


Figure 5. High Level Data PSD Comparison

Medium_desired_th_mod_resampled_mod_5_RFL_asd - (1,1) - (Vert Observed Acc,Vert Observed Acc) - (g,g)
 Medium_highfirstlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Medium_highfirstlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Medium_lowerlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Medium_lowfirstlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Medium_upperlimit - (1,1) - (row 1,column 1) - (volts,volts)

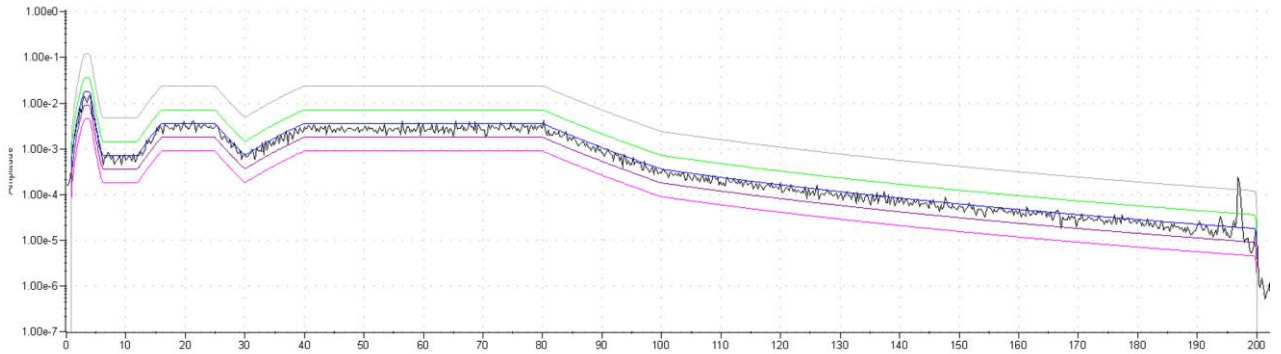


Figure 6. Medium Level Data PSD Comparison

Low_highfirstlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Low_lowerfirstlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Low_lowerlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Low_upperlimit - (1,1) - (row 1,column 1) - (volts,volts)
 Low_desired - (1,1) - (row 1,column 1) - (volts,volts)
 Low_desired_th_mod_resampled_scale_mod_4_RFL_asd - (1,1) - (Vert Observed Acc,Vert Observed Acc) - (g,g)

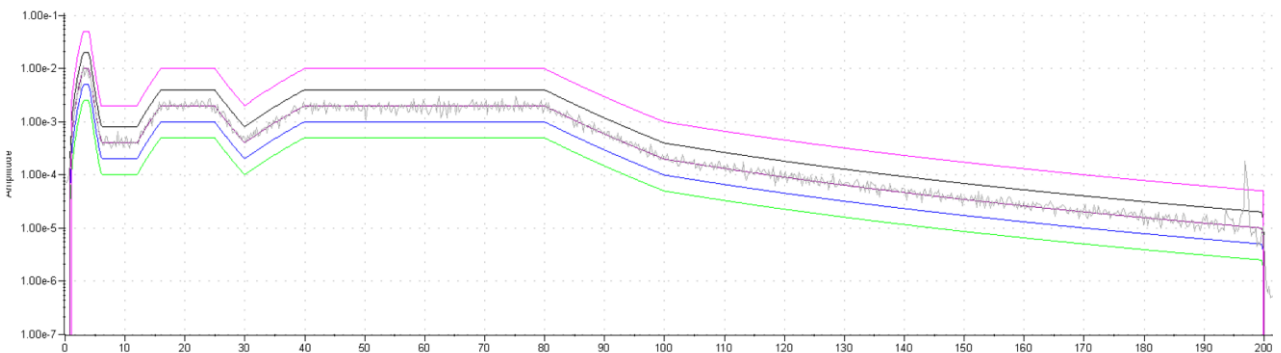


Figure 7. Low Level Data PSD Comparison

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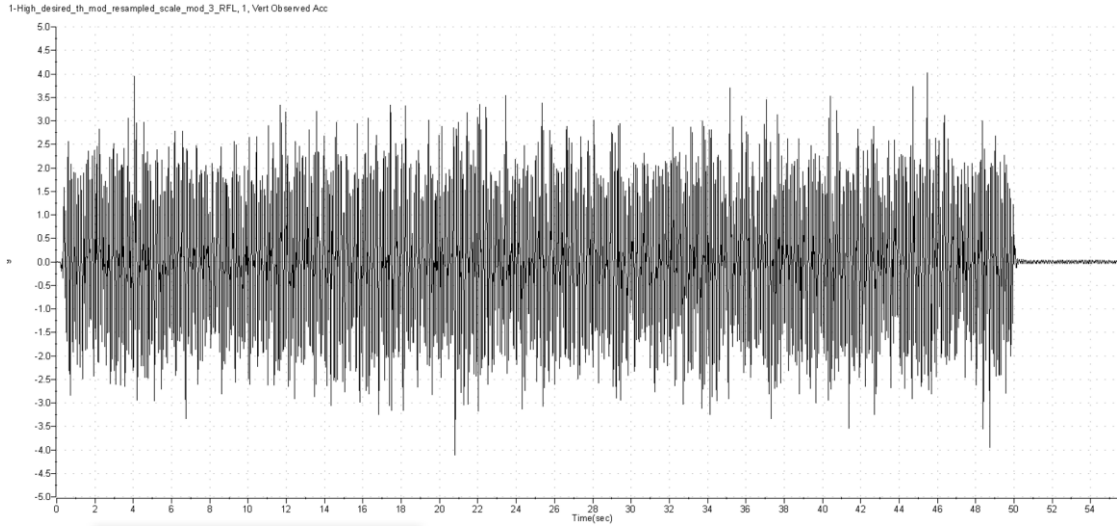


Figure 8. High Level Data in Time Domain (Random Data)

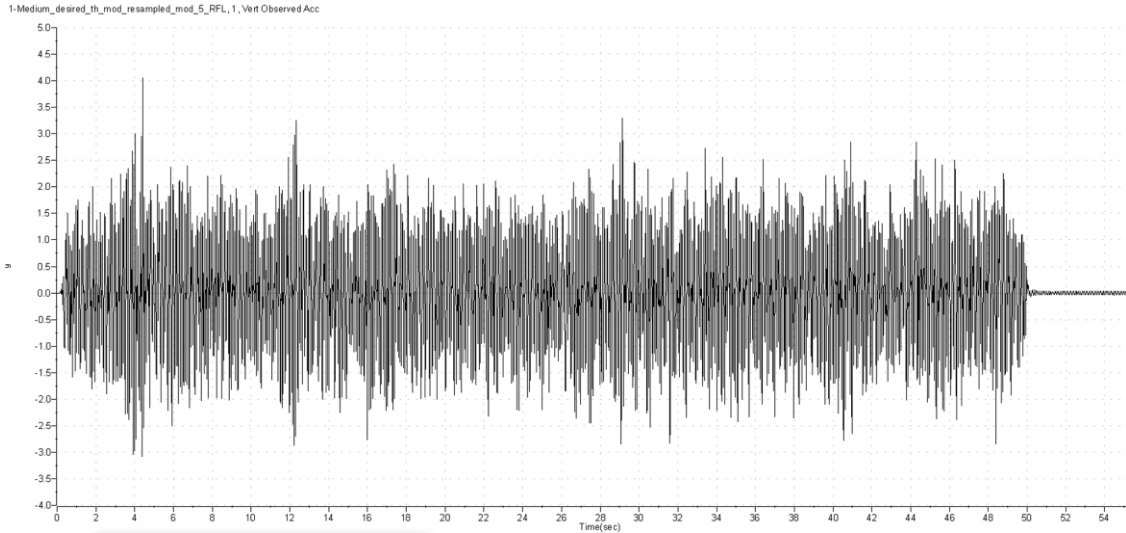


Figure 9. Medium Level Data in Time Domain (Random Data)

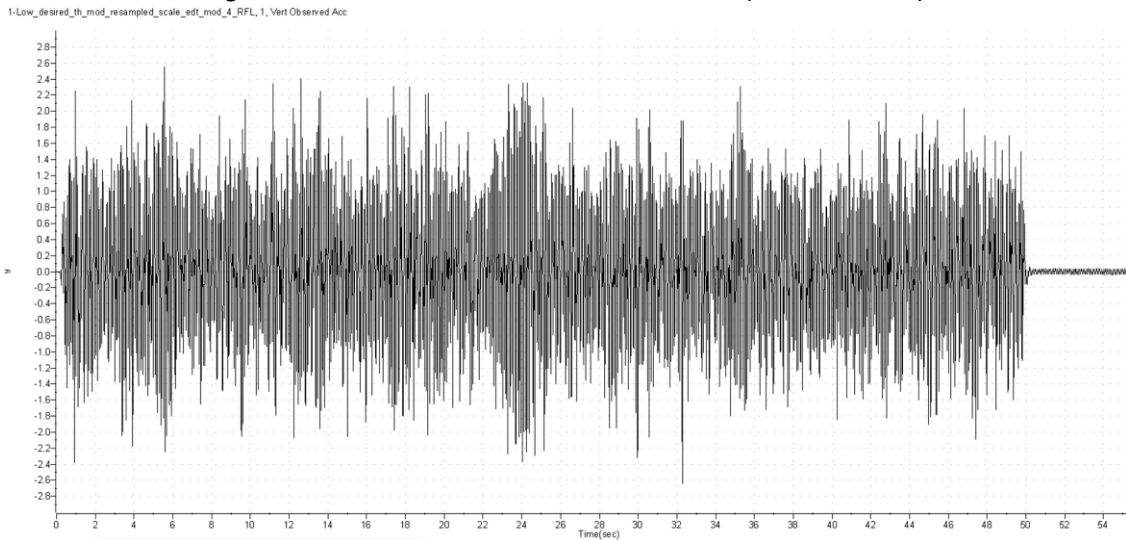


Figure 10. Low Level Data in Time Domain (Random Data)

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5. PICTURES

5.1 Before the test



Picture 1. General View

“Allianz Teknik” Allianz SE’nin tescilli bir markasıdır. Bu Rapor Allianz Teknik’in yazılı izni olmadan kopyalanamaz veya çoğaltılamaz. Belirtilen yönde görünen herhangi bir işlem gerekli yazılı izin olmaksızın geçersiz olacaktır. İmzasız ve kaşesiz raporlar geçersizdir. Bu rapor yalnızca rapor içeriğinde belirtilen test numuneleri için geçerlidir.

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Picture 2. General View



Picture 3. General View

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Picture 4. Transport Pallet Connection Details

5.2. After the test



Picture 5. General View

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Picture 6. General View



Picture 7. General View

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Picture 8. Product Details

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6. TECHNICAL DRAWINGS



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DATASHEET

yespan®

ISO9001-2015
TS EN 60439
TS EN 62208



H SERIES

CE
GOST-R

Free Standing Type Modular Enclosure

DIMENSIONS: W(1200) x H(2200+200) x D(800)

PLACE OF USE - PROTECTION CLASS: INDOOR IP 65

SHEET STEEL:

	Thickness	Material	Coating
Enclosure frame	2,50 mm	Galvanized CRS	7035 / 7035
Door	2,50 mm	Galvanized CRS	7035 / 7035
Side/Back wall	2,50 mm	Galvanized CRS	7035 / 7035
Side mounting plate	2,50 mm	Galvanized CRS	Unpainted
Back mounting plate	2,50 mm	Galvanized CRS	Unpainted
19" Swing Frame	2,50 mm	Galvanized CRS	Unpainted
Swing Frame Front Mounting Plate	2,00 mm	Galvanized CRS	Unpainted
Cover Plates	2,00 mm	Galvanized CRS	7035 / 7035
Bottom Plate	2,50 mm	Galvanized CRS	Unpainted
Plinth Corner	3,00 mm	Galvanized CRS	Unpainted
Plinth Cover	2,50 mm	Galvanized CRS	Black
Canopy	2,50 mm	Galvanized CRS	7035 / 7035

SURFACE TREATMENT:

Nanoceramic coating (when coating applied).

COATING:

Ral 7035 wrinkle UV resistive polyester powder coating (Inside)
Ral 7035 wrinkle UV resistive polyester powder coating (Outside)
Ral 9005 Black Powder Coating (Plinth Cover)

LOCK:

Door - Polyamide Handle with Euro Cylinder Insert (1325-U2 Emka)
SF- Polyamide Handle with Push Button Insert (1325-U1 Emka)

HINGES:

Hidden hinges, zinc
130° Door opening angle

INSETS:

Door earthing cable (1 piece for each door)
Canopy
SF stopper
Back Mounting Plate
Side Mounting Plate (2 pcs per panel)
Brackets for Cable Ducts on SF (5 pcs per panel)
Front Mounting Plate

MISCELLANEOUS:

Galvanized steel: 275 gr/m² Zinc
Glazed Door with 16 mm tempered glass with UV protection

YESPAN ELEKTRİK SAN. ve TİC. LTD. ŞTİ.
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7. CONCLUSION

Referring to ASTM D 4169-16 Clause 7.2, the test specimen is classified by the following criteria:

1. Criterion 1: Product is damage-free
2. Criterion 2: Packaging is intact
3. Criterion 3: Product and packaging undamaged (Both criteria 1 and 2)

As a result of the test, there was no damage observed on the products, which indicates that the product meets the condition of damage-free (Product is damage-free). No damage was observed in the packaging either (Package is intact).

As a result, the test specimen (UUT) meets the Criterion 3 condition specified in ASTM D 4169-16.

In addition to these, a detailed acceptance criterion can be defined according to Article 7.2 and a certain type of damage may be allowed to the product and packaging. These criteria can be of the pass-fail type, or they can be in the form of scoring and analysis.

ASTM 4169-16 Clause 1.5 states that this standard does not address all safety concerns. Before using the products, checking the applicability of legal limits and taking health and safety precautions are the responsibility of the user.

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