



**INTEGRA96 ULUSLARARASI URUN VE SISTEM  
BELGELENDIRME, BAGIMSIZ GOZETIM, DENETIM, EGITIM  
HIZMETLERI LTD. STİ.**

8090/1 Sk. No:5/A Maltepe Mah. Çiğli / İzmir - TÜRKİYE  
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## SNOW LOAD TEST INSPECTION REPORT

### KAR YÜKÜ TESTİ KONTROL RAPORU

Manufacturer .....	NOVVES ELEKTRİK MOTOR A.Ş.		
Adress .....	Taşköprü Merkez Mah. Çaydere Sk. No:9/1 D:2, Çiftlikköy/Yalova, Türkiye		
Product / Model(s) .....	<b>Aksiyel Çatı Fanı (Elektrikli Duman ve Isı Egzoz Ventilatorü) – DF1000F3-RAA14U-4T15 TK</b> <i>Axial Roof Fan (Powered Smoke and Heat Exhaust Ventilators) – DF1000F3-RAA14U-4T15 TK</i>		
Brand .....	NOVVES		
Report Number .....	TRM-24-2793/02		
Date of issue .....	22.04.2024		
Base of inspection .....	EN 12101-3 Annex E		
Number of pages (Report) .....	06		
Number of pages (Attachments) .....	-		
Compiled by .....	B. AVCI	Approved by .....	Eng. C. HURŞİTOĞLU
(+ signature)		(+ signature)	
test case does not apply to the test object .....	N/A		
test object does meet the requirement .....	P(ass)		
test object does not meet the requirement .....	F(ail)		
General Remarks			

This is to certify that the components as described hereunder have been inspected.

S/N	20230823619DFTK01	
Production Date	04.08.2023	
Flow Rate	50000	m <sup>3</sup> /h
Static Pressure	400	Pa
Motor Power	15	kW
Nominal Current	28,7	A
Frequency	50	Hz
Voltage	400	V
Nominal Speed	1470	RPM
Motor Class	IP55	
Motor S/N	1064274933	
Approx Weight	~540	Kg



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## 1. Scope of Inspection / Gözetim Kapsamı

This document outlines elements of a snow load test procedure for the **Axial Roof Fan (Powered Smoke and Heat Exhaust Ventilators) – DF1000F3-RAA14U-4T15 TK**. This also serves as a template for the snow load test report.

*Bu belge, Aksiyel Çatı Fanı (Elektrikli Duman ve Isı Egzoz Vantilatörü) – DF1000F3-RAA14U-4T15 TK için bir kar yükü testi prosedürünün unsurlarını özetlemektedir. Aynı zamanda kar yükü testi raporu için bir şablon görevi görür.*

## 2. General Inspection Information / Genel Gözetim Bilgileri

This inspection is performed to determine whether the Axial Roof Fan (Powered Smoke and Heat Exhaust Ventilators) - DF1000F3-RAA14U-4T15 TK meets the requirements of the **SL1000 (Snow Load) test**.

*Bu kontrol, Aksiyel Çatı Fanı (Elektrikli Duman ve Isı Egzoz Vantilatörü) – DF1000F3-RAA14U-4T15 TK, ürününün, SL1000 (Snow Load) testi gereksinimlerini karşılayıp karşılamadığını tespit etmek amacıyla gerçekleştirilmektedir.*

## 3. Codes, Standards and Regulations / Kodlar, Standartlar ve Düzenlemeler

The Snow Load Test was performed according to the requirements of European Standard **EN 12101-3:2015 - Annex E**.

*Kar Yükü Testi, Avrupa Standardı EN 12101-3:2015 - Ek E gereksinimlerine göre gerçekleştirilmiştir.*

## 4. Test Requirements / Test Gereklilikleri

EN 12101-3:2015 Annex E			
Test method for assessing the response delay and ability to open under environmental conditions			
Clause	Requirement	P-F-N/A	Remark
E.1	Objective of test The objective of this test is to assess the response delay and ability to open under environmental conditions.	Pass	Pass
E.2	Test apparatus Use a suitable test rig onto which the ventilator can be mounted and subjected to a test load equivalent to a wind pressure of 200 Pa. Apply the test load by one of the following methods: a) plates; b) bags containing up to 5 kg of solid particles or liquid. Spread the loads over the whole of the external surface of the individual elements of the opening parts of the ventilator, to produce a uniformly distributed load.	Pass	b) bags containing up to 5 kg of solid
E.3	Test specimen See 5.2.1 for the wind load test. For the snow load test, the largest fan of the family shall be considered representative of all the fans in that family. A test on the largest fan of the family shall be considered representative of all the fans in that family.	Pass	Suitable
E.4	Test procedure Mount the fan on the test rig in accordance with the supplier's recommendations. Apply the load using one of	Pass	Tested three times SL1000

Date/ Engineer:

B. AVCI  
22.04.2024

Control:

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22.04.2024



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the methods given in E.2, increasing the load to the upper appropriate limit given in 5.2.1 and 5.2.2 and maintain the load for (10 ± 1) min.  
Remove the load, actuate the ventilator and check that the dampers, flaps or lovers open to the design position.  
Operate the ventilator against the design load three times, using the energy source as specified by the supplier and its fire activating mechanism. Determine if the fire operating position is reached each time.

**Table 2 — Snow load classes**

Class	Load (Pa)
SL 0	0
SL 125	125
SL 250	250
SL 500	500
SL 1000	1000
SL A	A

E.5

**Evaluation of test results**

The ventilator meets the requirement of 4.1 if the test specimen achieves the operating position in each of the tests in less than 30 s. The test results may be applied to all the family of fans.  
The operating position can be considered as reached if the volume flow exhausted by the fan working under snow and wind loads did not decrease by more than 10 % of that exhausted by the fan working without these loads.

Pass

the test specimen was able to turn on in less than 30 s

### 5. Test Results / Test Sonuçları

Axial Roof Fan (Powered Smoke and Heat Exhaust Ventilators) - DF1000F3-RAA14U-4T15 TK has been evaluated according to the snow load test requirements according to Annex E of European Standard EN 12101-3:2015. The test specimen was observed to meet the requirements of **Class SL1000**.

Aksiyel Çatı Fanı (Elektrikli Duman ve Isı Egzoz Vantilatörü) – DF1000F3-RAA14U-4T15 TK Avrupa Standardı EN 12101-3:2015'in Ek E göre yapılan kar yükü testi gerekliliklerine göre değerlendirilmiştir. Test numunesi SL1000 Sınıfı gerekliliklerini karşıladığı gözlemlenmiştir.

Inspection Criterion / Gözetim Kriteri	SL1000
Test Load / Test Yüğü	100 kg (20x5kg bags)
Load Application Count / Yük Uygulama Sayısı	3 test
Cover Opening Time / Kapak Açılma Süresi	< 30 s
Test Result / Test Sonucu	<b>Geçti / Passed</b>
Date of Tests / Test Tarihi	05.04.2024
Qualified Personnel Name / Yetkili Gözetim Personelinin Adı	Burhan AVCI
Qualified Personnel Signature / Yetkili Gözetim Personelinin İmzası	

Date/ Engineer:

B. AVCI  
22.04.2024

Control:

Eng. C. HURŞİTOĞLU  
22.04.2024



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**6. Photos from Inspection / Kontrollere ait Fotoğraflar**



Foto No : 1  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : 1 Paketin Ağırlığı (5 Kg)



Foto No : 2  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : 20 Paketin Ağırlığı (20x5Kg: 100 Kg)



Foto No : 3  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Numuneye ait tanıtm plakası

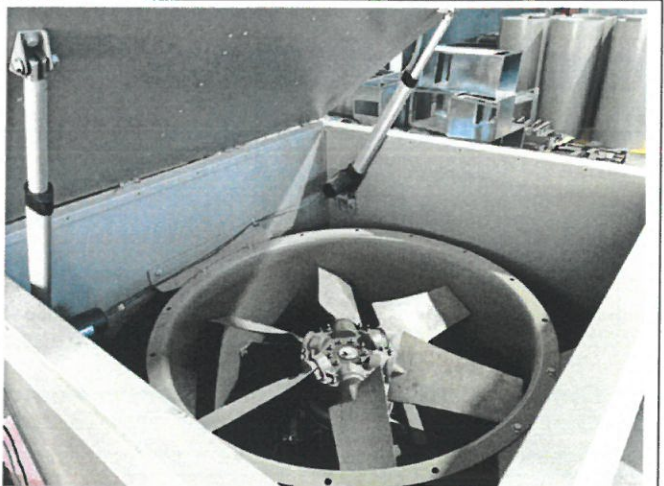


Foto No : 4  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Numuneye ait görsel

Date/ Engineer:

B. AVCI  
22.04.2024

Control:

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Foto No : 5  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Numuneye ait görsel

Foto No : 6  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Yüksüz açılma süresi 29,24sn



Foto No : 7  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Birinci test başlangıcı

Foto No : 8  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Kapak açılma süresi 29,12sn

Date/ Engineer:

B. ANCI  
22.04.2024

Control:

Eng. C. HURŞİTOĞLU  
22.04.2024



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Foto No : 9  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : İkinci test başlangıcı



Foto No : 10  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Kapak açılma süresi 29,18sn

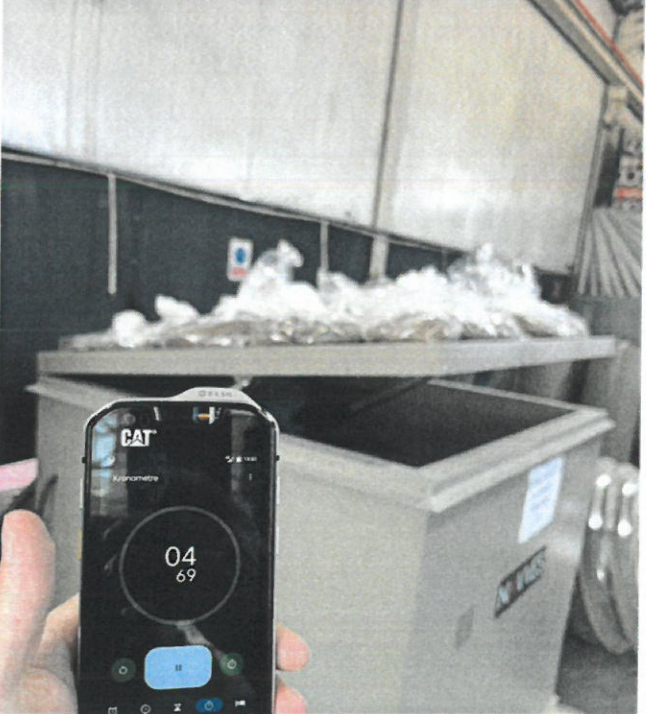
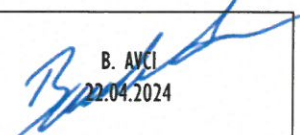


Foto No : 11  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Üçüncü test başlangıcı

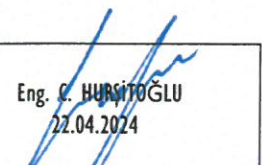


Foto No : 12  
Kontrol Yeri : Novves – Çiftlikköy / Yalova  
Tanımlama : Kapak açılma süresi 28,29sn

Date/ Engineer:

  
B. Avcı  
22.04.2024

Control:

  
Eng. C. HURŞİTOĞLU  
22.04.2024