Industry & Facilities Division 3° Party Shop Inspection Services		
Inspection Report N°: 4083	Date of issuance:	20.10.2016
🗆 Initial	Interim	✓ Final
Rev. n°:	Reason of revision:	
Inspection requested by: AIRONN HAVA	LANDIRMA VE KLİMA SİSTEML	.ERİ SAN. DIŞ TİC LTD ŞTİ
BV Inspection performed as Recognized	Authority: 🗹 No 🛛 Yes	(specify what recognition)
P/o nr: IDD.TR.2488737.A41	<b>P/o nr:</b> N/A	

(client to BV)	(client to Manufacturer)
Inspection performed on: 20.10.2016	Location: Kullar-Kocaeli/TURKEY
Previous Inspection: None	Next Inspection: On demand

MATERIAL / SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY
3rd Party Inspection of Actuated Cabinet Roof Type Axial Smoke Exhaust	AIR-A-U-1250	1
Fan		

<b>REFERENCE DOCUMENTS:</b> See continuation sheet for additional documents:  Yes No				
Title	Reference n°	Rev.	Approved by	Date
-	-	-	-	-

## INSPECTION RESULT

## ⊠ Satisfactory □ Unsatisfactory: (Non Conformities Raised )

BV Inspector: Ersin BASMACI	BV Coordinator: Ergin Dindar
BV Office: İstanbul	Attachments:
Distribution: 🖂 CLIENT 🔲 MANUFACTURER 🗌	] <b>BV</b> [] <b>OTHER</b> ( specify)

Stage of inspection :		
Before manufacturing	$\Box$ During manufacturing $\boxtimes$ Final	Packing
Type of inspection :		
<ul> <li>Pre-inspection meeting</li> <li>Witnessing tests</li> <li>Final inspection</li> </ul>	<ul> <li>Document and QC record review</li> <li>Manufacturing progress status</li> <li>Visual examination, checks</li> <li>Vendor assessment</li> <li>Packing</li> </ul>	
Stamping :		

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Results of inspection :					
	Satisfactory Unsatisfactor	ý			
Non Conformities Reports (NCR): o NCR's issued during reported perio	d : None				
o List of outstanding NCR's : None					
Main Conclusions & Remarks: (for a Expected visit has been carried out at on 20th of October 2016 for 3rd Party surveillance visit, BV have carried ou Roof Type Axial Smoke Exhaust Fan Details are given in this report. Next visit scheduled: On demand	AIRONN HAVALANDIRMA V Inspections of Actuated Cabinet t witnessing snow load, wind load	Roof Type Axial Smoke	e Exhaust Fan. During our		
INSPECTION DETAILS:					
ATTENDEES : See continuation s	sheet for additional documents:	] Yes ⊠ No			
Name	Company	Title (*)	Note		
Ersin BASMACI	Bureau Veritas	Enspektör	-		
Efe ÜNAL	Aironn	Project Manager	-		
MEASURING EQUIPMENT USE	<b>ED:</b> See continuation sheet for	additional documents:	TYes X No		
Equipment Type	Equipment Identity n°	Last Calibration			
Scales	-	17.10.2016	17.10.2017		
Digital protractor	-	17.10.2016	17.10.2017		
LIST OF NON CONFORMITIES ISSUED:					
NC identification n°	Description	of the Anomaly			
N/A					
	010050				
LIST OF NON CONFORMITIES		-			
NC id number Ref r N/A	eport n° Issued on	De	scription		
LIST OF ATTACHEMENTS					
Type of document	Identification	De	escription		

N/A

number

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#### Description of the inspections carried out :

1. Manufacturing Progress Status (Quantities)

1 piece Type AIR-A-U-1250 Actuated Cabinet Roof Type Axial Smoke Exhaust Fan manufacturing is completed.

2. Details of inspection activities carried out with respect to scope of work (*Visual* examination, witnessing NDT, dimensional checks, material identification...)

Further to request from AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SAN. DIŞ TİC LTD ŞTİ the undersigned resident surveyor of Bureau Veritas acting within the General Terms and conditions of Bureau Veritas which governs such intervention, did attend the premises of AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SAN. DIŞ TİC LTD ŞTİ Kullar-Kocaeli/Turkey 20th of October 2016.The findings are as follows:

The Actuated Cabinet Roof Type Axial Smoke Exhaust Fan was installed to operate at the critical operation conditions against an applied wind load, snow load and open-close test. Snow load test ,wind load test,open-close test and visual control was carried out together for Type AIR-A-U-1250 Actuated Cabinet Roof Type Axial Smoke Exhaust Fan at the same time. And test steps are detailed here below;

Snow load test according to EN 12101-3/SL 1000 (102 kg) Chapter 6.5 and Wind load (60kg) test according to EN 12101-3 Chapter 6.4 were carried out together at the same time under BV witnessing with 162 kg (1590N) loaded on the Actuated Cabinet Roof Type Axial Smoke Exhaust Fan. Bags were containing 5 kg of solid particles. The bags were uniformly distributed over the

external surface of Actuated Cabinet Roof Type Axial Smoke Exhaust Fan.

162 kg (1590N) loaded on the Actuated Cabinet Roof Type Axial Smoke Exhaust Fan and waited for 10 minutes and removed the load.

After that, the damper tested 1 time with unloaded and 3 time loaded with 162 kg.

During test, damper position was reached at fire operating position less than 30 second for each time.

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It was not observed any deformation on the Actuated Cabinet Roof Type Axial Smoke Exhaust Fan after test.

Damper was set automatically to open 5000 times and to close 5000 times. Damper has been done totally 10.000 opening and closing position and it was not observed any deformation on the Actuated Cabinet Roof Type Axial Smoke Exhaust Fan after test. Results were found satisfactory.

3. Surveillance with reference to ITP (Each activity elaborated in detail)

#### N/A

Results of Inspection (*incl. calibration status of equipment / instruments used for the inspection / testing*)

Results were found satisfactory It was not observed any deformation on the Actuated Cabinet Roof Type Axial Smoke Exhaust Fan after Combination of wind load and snow load test and open and close test.

4. Problems pending (Areas of Concern, punch list...)

None

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#### **Digital Pictures (with Legend)**





Type Axial Smoke Exhaust Fan



Description: General view of Actuated Cabinet Roof Type Axial Smoke Exhaust Fan

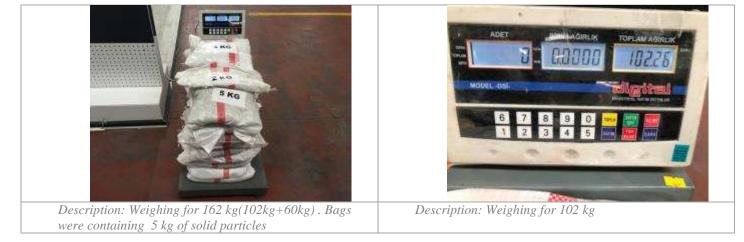


Description: General view of Actuated Cabinet Roof Type Axial Smoke Exhaust Fan

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SL 10	000	Applus*	TSEN	C€	OK	0

Description: Identification Plate of Actuated Cabinet Roof Type Axial Smoke Exhaust Fan

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*Description: Weighing for 162 kg(102kg+60kg).Bags were containing 5 kg of solid particles* 



Description: Weighing for 60 kg



*Combination of wind load and snow load test with 162 kg during 10 minutes.* 



Description: Damper tested 1 time with unloaded. Damper position was reached at fire operating position less than 30 second after 10 minutes.

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Description: Damper tested 3 times with loaded 162 kg. Damper position was reached at fire operating position less than 30 second each time after combination of wind load and snow load test.



Description: Damper position was reached at fire operating position at first time less than 30 second each time after combination of wind load and snow load test.



Description: Damper position was reached at fire operating position at second time less than 30 second each time after combination of wind load and snow load test



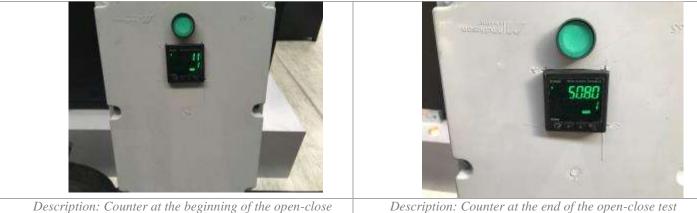
Description: Damper position was reached at fire operating position at third time less than 30 second each time after combination of wind load and snow load test.



*Description: Damper was set to open automatically at 5000 time.* 

Description: Damper was set to open automatically at 5000 time.

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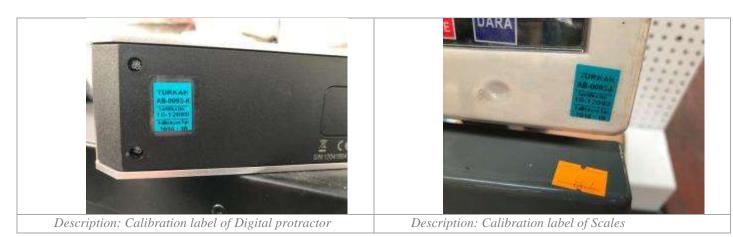


Description: Counter at the beginning of the open-close test



After Combination of Snow load test and Wind load test and open-close test

After Combination of Snow load test and Wind load test and open-close test



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# Punch List Items

None

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Project: 3rd Party Inspection of Actuated	Ref: N/A	
Cabinet Roof Type Axial Smoke Exhaust Fan		
BV Client: AIRONN HAVALANDIRMA VE	Manufacturer / AIRONN HAVALANDIRMA VE	
KLİMA SİSTEMELRİ SAN. DIŞ TİC LTD ŞTİ	KLİMA SİSTEMELRİ SAN. DIŞ	TİC LTD ŞTİ

## **END OF REPORT**

Inspected by:	Checked by:
Name: Ersin BASMACI	Name: Ergin Dindar
Signature:	Signature:
Inspection Office: BV ISTANBUL	Supervision during performance 🛛 No 🗌 Yes

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