

HOLLINGSWORTH & VOSE COMPANY
P. O. Box 168
West Groton, Massachusetts 01472
Telephone: (978) 448-3311
Fax: (978) 448-2894

Corporate Offices:
112 Washington Street
E. Walpole, Massachusetts 02032
Telephone: (508) 668-0295
Fax: (508) 668-8082

C E R T I F I C A T I O N O F T E S T S

AUSTIN AIR SYSTEMS
500 Elk St.
Buffalo, NY 14210

Certification: 97632
Shipping Date: 9-Feb-2017
Destination: Buffalo, NY
Customer Order: 6351

HOLLINGSWORTH & VOSE COMPANY certifies that this shipment
of **HB-7677 - 13.5"**

manufactured in lot number(s) **7050-0 82**, was tested and meets

the following specifications (exceptions noted at bottom of data sheet):

1. **H&V Spec. HB-7677**

Test data enclosed

2.

3.

H&V No.: 558098-01-01-01

Additional Certifications:

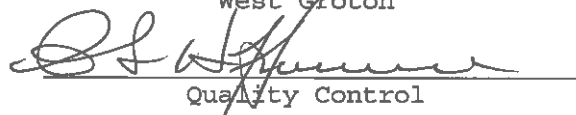
Part Number:
20FM01

It is certified that the products detailed hereon have been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and unless otherwise noted, conform in all respects to the specification(s) relevant thereto.

cc:

HOLLINGSWORTH & VOSE COMPANY

West Groton


Quality Control

Date 2-9-17

QUALITY ASSURANCE DATA

Customer : AUSTIN AIR SYSTEMS
 Buffalo, NY
 H & V No. : 558098-01-01-01
 Order No. : 6351

HOLLINGSWORTH & VOSE West Groton, MA USA

QC Test Specifications:	Slit Width	As Is Basis Weight	Caliper TAPPi 7.3 psi	DOP-100P 32 Liters Per Minute	Air Resistance 32 LPM	Ignition Loss	MD Tensile Dry	CD Tensile Dry	MD Elongation	CD Elongation	ATI AS IS WATER RISE	MD Stiffness As Is Dry
MINIMUM \ Target --> MAXIMUM /		45.0 / 48.0 / 51.0	.016	.015 / 0.0300	32 / 35.00	4.25 / 5.50 / 6.75	6.50 / 7.0	4.0	1.0-1.5	1.5-2.0	5.0 / 20	1200
Roll Numbers	in	#/3000sf	in.	%	mm	%	lbs/in	lbs/in	%	%	in	mg.
370202	13.5000	47.8	0.0153	0.0050	33.70	5.42	9.02	4.48	1.42	1.85	30.9	1080
370302	13.5000	47.8	0.0153	0.0071	32.40	5.42	9.02	4.48	1.42	1.85	30.9	1080
380302	13.5000	47.0	0.0153	0.0048	33.00		9.22	4.50	1.41	2.04	33.3	1070
390202	13.5000	47.8	0.0154	0.0054	32.70	5.51	8.91	4.32	1.34	1.70	20.5	1050
440502	13.5000	48.1	0.0157	0.0068	31.90		9.29	4.71	1.13	1.72	33.7	1140
450402	13.5000	48.1	0.0157	0.0041	33.00		9.29	4.71	1.13	1.72	33.7	1140
450502	13.5000	48.1	0.0157	0.0046	33.20		9.29	4.71	1.13	1.72	33.7	1140
450602	13.5000	48.1	0.0157	0.0070	31.90		9.29	4.71	1.13	1.72	33.7	1140
460402	13.5000	47.8	0.0154	0.0050	33.00		7.72	4.74	0.78	1.89	33.7	1140
460502	13.5000	47.8	0.0154	0.0046	31.90		7.72	4.74	0.78	1.89	33.7	1140
460602	13.5000	47.8	0.0154	0.0064	33.00		7.72	4.74	0.78	1.89	33.7	1140
470202	13.5000	47.8	0.0154	0.0045	33.20		7.72	4.74	0.78	1.89	33.7	1140
470302	13.5000	47.8	0.0154	0.0060	32.00		7.72	4.74	0.78	1.89	33.7	1140
480202	13.5000	47.8	0.0154	0.0057	32.80		7.72	4.74	0.78	1.89	33.7	1140
480302	13.5000	47.8	0.0154	0.0071	31.80		7.72	4.74	0.78	1.89	33.7	1140



Hollingsworth & Vose Company
 112 Washington St, East Walpole MA, 02032
 001-508-6680295

Bill to:
 Austin Air Systems
 500 Elk St
 Buffalo NY, 14210
 UNITED STATES

Ship to:
 Austin Air Systems
 500 Elk St
 Buffalo NY, 14210
 UNITED STATES

Packing List - P	
Load number	139383-01
Date	09-FEB-2017
Account No.	1699
Customer Service Contact	Stetson, Erin
Account Manager Contact	Barrientos, Phil
Disp. Date	10-FEB-2017

Number of Packages	6	Number of Rolls	36	Total	1,581	1,581	1,761	180
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Order Confirmation Number 558098-01-01-01
 P/O No 6351
 Order Date 12-JAN-2017

Article Description		20FM01		HB7677/13.5IN/3INID/29INOD/WSI/NOLINES		Grammage: 48 pounds/3000sqf		Width: 13.5 in		Diam: 29 in		Core: 3 in	
Pallet#	Lot#	Roll#	# of Rolls	Net lb	Net lb	Gross lb	Tare						
0221PB3	7050082	7050082380302	1	56	56	66	10						
0221PB3	7050082	7050082390202	1	56	56	66	10						
0221PB3	7050082	7050082390302	1	56	56	66	10						
0221PB7	7050082	7050082370202	1	56	56	66	10						
0221PB7	7050082	7050082370302	1	56	56	66	10						
0221PB7	7050082	7050082380202	1	56	56	66	10						
0221PBP	7050082	7050082470302	1	56	56	66	10						
0221PBP	7050082	7050082480202	1	57	57	67	10						
0221PBP	7050082	7050082480302	1	56	56	66	10						
0221PBS	7050082	7050082460502	1	57	57	67	10						
0221PBS	7050082	7050082460602	1	57	57	67	10						
0221PBS	7050082	7050082470202	1	57	57	67	10						
0221PBX	7050082	7050082450402	1	57	57	67	10						
0221PBX	7050082	7050082450502	1	57	57	67	10						
0221PBX	7050082	7050082450602	1	57	57	67	10						
0221PBY	7050082	7050082440402	1	55	55	65	10						
0221PBY	7050082	7050082440502	1	55	55	65	10						
0221PBY	7050082	7050082440602	1	55	55	65	10						
Number of Packages	6	Number of Rolls	18	Total	1,012	1,012	1,192	180					

Shipping Comments:
 Carrier 2551 CUSTOMER CARRIER
 Dispatch Type TL Ground

Total pallets 12
Total Net lbs 2,593
Total Tare lbs 360
Total Gross lbs 2,953

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E. Walpole, Massachusetts 02032
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C E R T I F I C A T I O N O F T E S T S

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AUSTIN AIR SYSTEMS
500 Elk St.
Buffalo, NY 14210

Certification: 97631
Shipping Date: 9-Feb-2017
Destination: Buffalo, NY
Customer Order: 6353

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HOLLINGSWORTH & VOSE COMPANY certifies that this shipment
of **HB-7677 - 10.6875"**

manufactured in lot number(s) **7050-0 82**, was tested and meets

the following specifications (exceptions noted at bottom of data sheet):

1. **H&V Spec. HB-7677**

Test data enclosed

2.

3.

H&V No.: 558337-01-01-01

Additional Certifications:

Part Number:

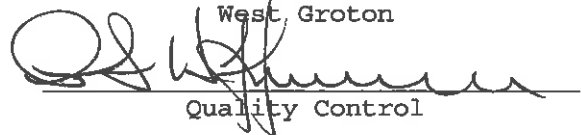
10FM01

It is certified that the products detailed hereon have been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and unless otherwise noted, conform in all respects to the specification(s) relevant thereto.

cc:

HOLLINGSWORTH & VOSE COMPANY

West Groton


Quality Control

Date 2-9-17

QUALITY ASSURANCE DATA

Customer : AUSTIN AIR SYSTEMS
 Buffalo, NY
 H & V No. : 58337-01-01-01
 Order No. : 6353

HOLLINGSWORTH & VOSE West Groton, MA USA

QC Test Specifications:	Slit Width	As Is Basis Weight	Caliper TAPPI 7.3 psi	DOP-100P 32 Liters Per Minute	Air Resistance 32 LPM	Ignition Loss		MD Tensile		CD Tensile Dry	Elongation	MD Elongation	CD Elongation	ATI AS IS WATER RISE	Stiffness As Is Dry
						%	Loss	lbs/in	Dry						
MINIMUM \		45.0					4.25	6.50						5.0	
Target -->		48.0	.016	.015	32		5.50	7.0			1.0-1.5	1.5-2.0		20	1200
MAXIMUM /		51.0		0.0300	35.00		6.75								
Roll Numbers	in	#/3000sf	in.	%	mm	lbs/in	%	lbs/in	lbs/in	%	%	%	%	in	mg.
430102	10.6875	47.8	0.0154	0.0052	32.80	8.91	5.51	4.32	4.32	1.34	1.70	1.70	20.5		1050
430202	10.6875			0.0071	32.00										
430302	10.6875			0.0077	31.90										
440102	10.6875			0.0066	32.40										
440202	10.6875			0.0085	31.10										
440302	10.6875			0.0078	31.50										
450102	10.6875	48.1	0.0157	0.0058	32.70	9.29	5.30	4.71	4.71	1.13	1.72	1.72	33.7		1140
450202	10.6875			0.0071	31.60										
450302	10.6875			0.0070	31.90										
460102	10.6875			0.0064	31.30										
460202	10.6875			0.0079	31.30										
460302	10.6875			0.0067	31.90										
490102	10.6875	47.7	0.0152	0.0047	32.60	9.39	5.30	4.65	4.65	1.29	1.79	1.79	29.7		1070
490202	10.6875			0.0067	31.80										
490302	10.6875			0.0076	31.70										
500102	10.6875			0.0060	32.30										
500202	10.6875			0.0069	31.20										
500302	10.6875			0.0082	31.50										
510102	10.6875	47.6	0.0160	0.0057	32.60	8.79	5.30	4.75	4.75	1.01	1.81	1.81	32.5		1140
510202	10.6875			0.0074	31.60										
510302	10.6875			0.0081	31.70										
520102	10.6875			0.0052	32.20										
520202	10.6875			0.0077	31.30										
520302	10.6875			0.0085	31.30										
530102	10.6875	47.1	0.0155	0.0080	31.60	9.54	5.30	4.74	4.74	1.22	1.79	1.79	23.3		1160
530202	10.6875			0.0074	31.50										
530302	10.6875			0.0085	31.00										
540102	10.6875			0.0072	32.70										
540202	10.6875			0.0086	31.20										
540302	10.6875			0.0083	31.60										
580102	10.6875	48.4	0.0153	0.0057	32.60	9.81	5.30	4.98	4.98	1.39	1.90	1.90	33.7		1140
580202	10.6875			0.0071	31.80										
580302	10.6875			0.0075	31.80										
590102	10.6875	48.2	0.0153	0.0055	32.60	9.79	5.30	4.99	4.99	1.25	1.29	1.29	33.0		1140



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 Buffalo NY, 14210
 UNITED STATES

Ship to:

Austin Air Systems
 500 Elk St
 Buffalo NY, 14210
 UNITED STATES

Packing List - P	
Load number	139383-01
Date	09-FEB-2017
Account No.	1699
Customer Service Contact	Stetson, Erin
Account Manager Contact	Barrientos, Phil
Disp. Date	10-FEB-2017

Order Confirmation Number 558337-01-01-01
 P/O No 6353
 Order Date 17-JAN-2017

Article **Dispatched from West Groton, MA**

Description
10FM01
 HB7677/10.6875IN/3INID/29INOD/WSI/NOLINES
 Grammage: 48 pounds/3000sqf Width: 10.6875 in
 Diam: 29 in Core: 3 in

Pallet#	Lot#	Roll#	# of Rolls	Net lb	Net lb	Gross lb	Tare
0221PBW	7050082	7050082450102	1	44	44	49	5
0221PBW	7050082	7050082450202	1	44	44	49	5
0221PBW	7050082	7050082450302	1	44	44	49	5
0221PBW	7050082	7050082460102	1	44	44	49	5
0221PBW	7050082	7050082460202	1	44	44	49	5
0221PBW	7050082	7050082460302	1	44	44	49	5
0221PBZ	7050082	7050082430102	1	44	44	49	5
0221PBZ	7050082	7050082430202	1	44	44	49	5
0221PBZ	7050082	7050082430302	1	44	44	49	5
0221PBZ	7050082	7050082440102	1	43	43	48	5
0221PBZ	7050082	7050082440202	1	43	43	48	5
0221PBZ	7050082	7050082440302	1	43	43	48	5
0221PCB	7050082	7050082530102	1	44	44	49	5
0221PCB	7050082	7050082530202	1	44	44	49	5
0221PCB	7050082	7050082530302	1	44	44	49	5
0221PCB	7050082	7050082540102	1	44	44	49	5
0221PCB	7050082	7050082540202	1	44	44	49	5
0221PCB	7050082	7050082540302	1	44	44	49	5
0221PCE	7050082	7050082510102	1	45	45	50	5
0221PCE	7050082	7050082510202	1	44	44	49	5
0221PCE	7050082	7050082510302	1	45	45	50	5
0221PCE	7050082	7050082520102	1	44	44	49	5
0221PCE	7050082	7050082520202	1	44	44	49	5
0221PCE	7050082	7050082520302	1	44	44	49	5
0221PCH	7050082	7050082490102	1	44	44	49	5
0221PCH	7050082	7050082490202	1	44	44	49	5
0221PCH	7050082	7050082490302	1	44	44	49	5
0221PCH	7050082	7050082500102	1	44	44	49	5
0221PCH	7050082	7050082500202	1	42	42	47	5
0221PCH	7050082	7050082500302	1	44	44	49	5
0221PCU	7050082	7050082580102	1	44	44	49	5
0221PCU	7050082	7050082580202	1	44	44	49	5
0221PCU	7050082	7050082580302	1	44	44	49	5
0221PCU	7050082	7050082590102	1	44	44	49	5
0221PCU	7050082	7050082590202	1	44	44	49	5
0221PCU	7050082	7050082590302	1	44	44	49	5