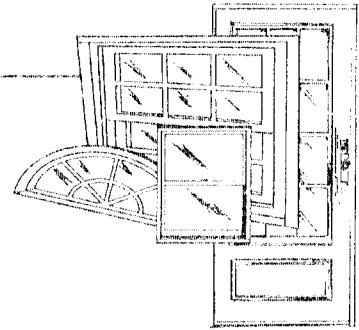


CERTIFIED TESTING LABORATORIES

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Active Ventilation Testing Summary

This summary represents all specimens that have been currently tested in accordance with ASTM testing. The results for each specimen are listed below. The specimens that failed per the listed standards are highlighted.

CTLA 1691W

Spec. #1	Aura Ventilator 24" diameter 2" collar and square flange			
ASTM E 330-02				
MPH:	Structural:			
30	@ 2.3 psf	Deflection:	Loc. 1-	.003"
40	@ 4.10 psf	Deflection:	Loc. 1-	.004"
50	@ 6.40 psf	Deflection:	Loc. 1-	.008"
60	@ 9.22 psf	Deflection:	Loc. 1-	.010"
70	@ 12.54 psf	Deflection:	Loc. 1-	.014"
80	@ 16.40 psf	Deflection:	Loc. 1-	.015"
90	@ 21.00 psf	Deflection:	Loc. 1-	.026"
100	@ 25.60 psf	Deflection:	Loc. 1-	.034"
110	@ 31.00 psf	Deflection:	Loc. 1-	.037"
120	@ 36.86 psf	Deflection:	Loc. 1-	.047"

130	@ 43.25 psf	Deflection:	Loc. 1-	.054"
140	@ 50.20 psf	Deflection:	Loc. 1-	.057"
150	@ 57.60 psf	Deflection:	Loc. 1-	.062"
160	@ 65.50 psf	Deflection:	Loc. 1-	.069"
170	@ 74.00 psf	Deflection:	Loc. 1-	.070"
180	@ 82.94 psf	Deflection:	Loc. 1-	.089"
190	@ 92.42 psf	Deflection:	Loc. 1-	.097"
200	@ 102.40 psf	Deflection:	Loc. 1-	.010"

Note: Location 1 measurements were taken on top of ventilator.

Spec. # 2 Aura Ventilator 24" diameter 6" collar and square flange
 ASTM E 330-02
 MPH: Structural:

30	@ 2.3 psf	Deflection: Loc. 1-	0"
		Set: Loc. 1-	0"
40	@ 4.10 psf	Deflection: Loc. 1-	0"
		Set: Loc. 1-	0"
50	@ 6.40 psf	Deflection: Loc. 1-	0"
		Set: Loc. 1-	0"
60	@ 9.22 psf	Deflection: Loc. 1-	0"
		Set: Loc. 1-	0
70	@ 12.54 psf	Deflection: Loc. 1-	0"
		Set: Loc. 1-	0"
80	@ 16.40 psf	Deflection: Loc. 1-	0"
		Set: Loc. 1-	0"
90	@ 21.00 psf	Deflection: Loc. 1-	0"
		Set: Loc. 1-	0"

100	@ 25.60 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
110	@ 31.00 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
120	@ 36.86 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
130	@ 43.25 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
140	@ 50.20 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
150	@ 57.60 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
160	@ 65.50 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
170	@ 74.00 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
180	@ 82.94 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
190	@ 92.42 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"
200	@ 102.40 psf	Deflection: Loc. 1- Set: Loc. 1-	0" 0"

Note: Location 1 measurements were taken on the flange.

Spec. # 3 Aura Ventilator 4" diameter 6" collar and square flange
 ASTM E 330-02
 MPH: Structural:

30	@ 2.3 psf	Deflection: Loc. 1-	0"
40	@ 4.10 psf	Deflection: Loc. 1-	0"
50	@ 6.40 psf	Deflection: Loc. 1-	0"
60	@ 9.22 psf	Deflection: Loc. 1-	0"

70	@ 12.54 psf	Deflection: Loc. 1-	0"
80	@ 16.40 psf	Deflection: Loc. 1-	0"
90	@ 21.00 psf	Deflection: Loc. 1-	0"
100	@ 25.60 psf	Deflection: Loc. 1-	0"
110	@ 31.00 psf	Deflection: Loc. 1-	0"
120	@ 36.86 psf	Deflection: Loc. 1-	0"
130	@ 43.25 psf	Deflection: Loc. 1-	0"
140	@ 50.20 psf	Deflection: Loc. 1-	0"
150	@ 57.60 psf	Deflection: Loc. 1-	0"
160	@ 65.50 psf	Deflection: Loc. 1-	0"
170	@ 74.00 psf	Deflection: Loc. 1-	0"
180	@ 82.94 psf	Deflection: Loc. 1-	0"
190	@ 92.42 psf	Deflection: Loc. 1-	0"
200	@ 102.40 psf	Deflection: Loc. 1-	0"

Note: Location 1 measurements were taken at the flange.

Spec. # 4

Aura Ventilator 4" diameter 2" collar and square flange

ASTM E 330-02

MPH: Structural:

30	@ 2.30 psf	Deflection: Loc. 1- Set: Loc. 1-	.006" 0"
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40	@ 4.10 psf	Deflection: Loc. 1- Set: Loc. 1-	.008" 0"
50	@ 6.40 psf	Deflection: Loc. 1- Set: Loc. 1-	.018" 0"
60	@ 9.22 psf	Deflection: Loc. 1- Set: Loc. 1-	.017" 0"
70	@ 12.54 psf	Deflection: Loc. 1- Set: Loc. 1-	.023" .001"
80	@ 16.40 psf	Deflection: Loc. 1- Set: Loc. 1-	.035" .001"
90	@ 21.00 psf	Deflection: Loc. 1- Set: Loc. 1-	.042" .001"
100	@ 25.60 psf	Deflection: Loc. 1- Set: Loc. 1-	.053" .001"
110	@ 31.00 psf	Deflection: Loc. 1- Set: Loc. 1-	.062" .001"
120	@ 36.86 psf	Deflection: Loc. 1- Set: Loc. 1-	.078" .002"
130	@ 43.25 psf	Deflection: Loc. 1- Set: Loc. 1-	.085" .003"
140	@ 50.20 psf	Deflection: Loc. 1- Set: Loc. 1-	.098" .003"
150	@ 57.60 psf	Deflection: Loc. 1- Set: Loc. 1-	.121" .004"
160	@ 65.50 psf	Deflection: Loc. 1- Set: Loc. 1-	.132" .005"
170	@ 74.00 psf	Deflection: Loc. 1- Set: Loc. 1-	.156" .0005"
180	@ 82.94 psf	Deflection: Loc. 1- Set: Loc. 1-	.168" .006"
190	@ 92.42 psf	Deflection: Loc. 1- Set: Loc. 1-	.188" .006"
200	@ 102.40 psf	Deflection: Loc. 1- Set: Loc. 1-	.212" .006"

Note: Location 1 measurements were taken at the top of the ventilator.

Testing completed by Certified Testing Laboratories.

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