

# ELC6375DXD

## Drainable Combination Louver

Miami-Dade Approved | Miami Dade NOA# 20-0909.06 (Expires 2/11/2024)  
Florida Product Approved FL-21829.1



### APPLICATION

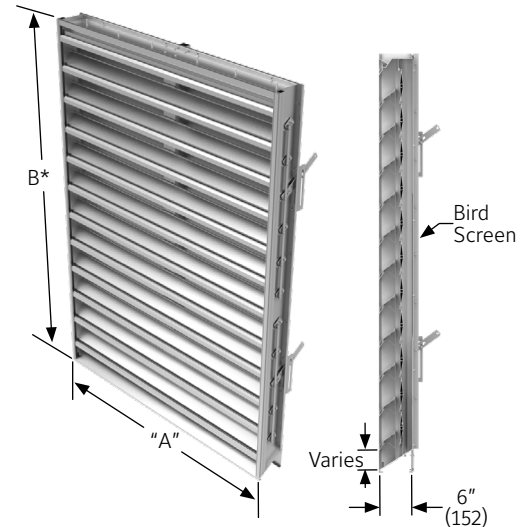
The ELC6375DXD is a Miami Dade rated, 6" deep, extruded aluminum, combination louver. It includes a fixed front stationary blade and a rear adjustable blade. These blades can be operated closed when the occupant requires a tight air shut off for protection of air intake and exhaust openings in building exterior walls. This louver is designed with a gutter system channeling water from the blades to downspouts in the jambs, where water is exhausted out the front of the louver when rear blades are open.

### STANDARD CONSTRUCTION

<b>Frame</b>	6" (152) deep, 6063T6 extruded aluminum with .125" (3.2) nominal wall thickness. Downspouts and caulking surfaces provided.
<b>Blades</b>	Front stationary drainable blades – 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness, positioned at 37 1/2° angle and spaced approximately 6 1/8" (156) on center. Rear adjustable airfoil blades – 6063T6 extruded aluminum, .07" (1.77) nominal wall thickness.
<b>Screen</b>	5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.
<b>Seals</b>	Extruded vinyl blade edge seals on rear adjustable blades and flexible, compressible aluminum jamb seals.
<b>Linkage</b>	Concealed in frame.
<b>Bearings</b>	Stainless steel sleeve pressed into frame.
<b>Axles</b>	1/2" (13) plated steel hex.
<b>Actuator</b>	Locking louver quadrant.
<b>Finish</b>	Mill
<b>Minimum Size</b>	No minimum size.
<b>Approximate Shipping Weight</b>	8 lbs. per sq. ft. (39.1 kg per m <sup>2</sup> )
<b>Maximum Factory Assembly Size</b>	55"w x 120"h (1397 x 3048) factory assembly, unlimited width x 120"h field assembly. Louvers larger than the maximum factory assembly size will require field assembly of smaller sections. The ELC6375DXD must be installed per the appropriate installation detail. Reference the appropriate separate installation instruction sheet.
<b>Installation</b>	
<b>Mullion Supports</b>	Factory installed mullion supports are provided at rear of hidden mullions. Mullion depth = 1" (25) for louvers 753/4" (1924) tall and under. Depth = 51/8" (130) for louvers over 753/4" (1924) tall.

### FEATURES

- ▶ Approved for use in open structures with provisions to manage weather infiltration (wet rooms)
- ▶ Maximum windload ±110 PSF (5.27 kPa)
- ▶ 44% Free Area
- ▶ Published performance ratings based on testing in accordance with AMCA Publication 511
- ▶ Adjustable rear blades provide shut off when desired
- ▶ Concealed blade linkage is protected from weather exposure and reduces required installation depth
- ▶ Blade and jamb seals provide tight closure
- ▶ Beginning point of water penetration at 0.01 oz/sq ft. is 1250 FPM in open position
- ▶ Miami Dade NOA Certification 20-0909.06 (Expires 2/11/2024)
- ▶ Florida Product Approved FL-21829.1



### VARIATIONS

Variations to the basic design of these louvers are available at additional cost. They include:

- ▶ Extended sill
- ▶ Front or rear security bars
- ▶ Filter racks
- ▶ A variety of bird and insect screens
- ▶ A selection of manual, electric, and pneumatic actuators
- ▶ Jack shafts may be required with certain size and actuator configuration
- ▶ Optional finishes available at additional cost: Prime coat, 50% PVDF (modified fluoropolymer), Epoxy, Pearledize, 70% PVDF, Clear and Anodized finishes. (Some variation in anodize color consistency is possible)

Consult Ruskin for other special requirements.

Please reference our website [www.ruskin.com](http://www.ruskin.com) for up to date LEED information

NOTE:  
- Dimensions in inches, parenthesis ( ) indicate millimeters.  
- Units can be furnished actual size or with size deducts.

# FREE AREA GUIDE

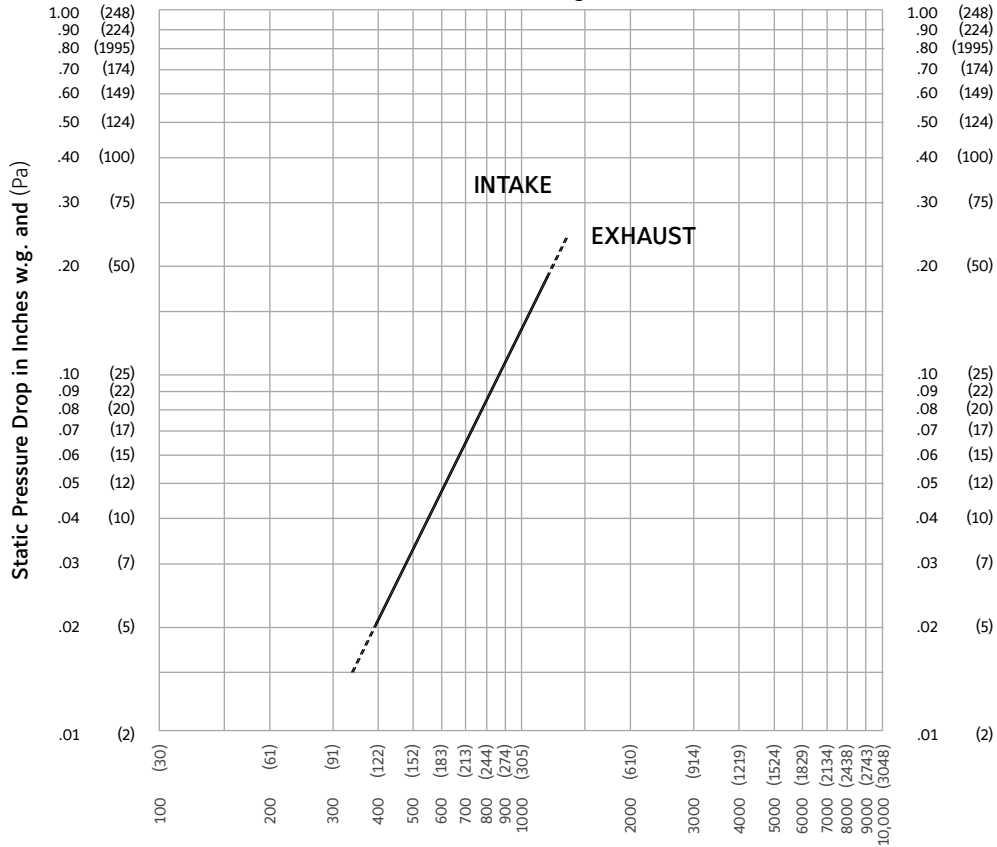
Free Area Guide shows free area in ft<sup>2</sup> and m<sup>2</sup> for various sizes of ELC6375DXD.

## Width – Inches and Meters

HEIGHT	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00
<b>12</b> 0.30	<b>0.10</b> 0.01	<b>0.19</b> 0.02	<b>0.28</b> 0.03	<b>0.37</b> 0.04	<b>0.46</b> 0.04	<b>0.55</b> 0.05	<b>0.64</b> 0.06	<b>0.72</b> 0.07	<b>0.81</b> 0.08	<b>0.90</b> 0.08	<b>0.99</b> 0.09	<b>1.08</b> 0.10	<b>1.17</b> 0.11	<b>1.26</b> 0.12	<b>1.35</b> 0.13	<b>1.43</b> 0.13	<b>1.52</b> 0.14	<b>1.61</b> 0.15	<b>1.70</b> 0.16
<b>18</b> 0.45	<b>0.28</b> 0.03	<b>0.51</b> 0.05	<b>0.75</b> 0.07	<b>0.99</b> 0.09	<b>1.22</b> 0.11	<b>1.46</b> 0.14	<b>1.69</b> 0.16	<b>1.93</b> 0.18	<b>2.17</b> 0.20	<b>2.40</b> 0.22	<b>2.64</b> 0.25	<b>2.88</b> 0.27	<b>3.11</b> 0.29	<b>3.35</b> 0.31	<b>3.59</b> 0.33	<b>3.82</b> 0.36	<b>4.06</b> 0.38	<b>4.30</b> 0.40	<b>4.53</b> 0.42
<b>24</b> 0.60	<b>0.45</b> 0.04	<b>0.83</b> 0.08	<b>1.22</b> 0.11	<b>1.60</b> 0.15	<b>1.99</b> 0.18	<b>2.37</b> 0.22	<b>2.75</b> 0.26	<b>3.14</b> 0.29	<b>3.52</b> 0.33	<b>3.91</b> 0.36	<b>4.29</b> 0.40	<b>4.67</b> 0.43	<b>5.06</b> 0.47	<b>5.44</b> 0.51	<b>5.83</b> 0.54	<b>6.21</b> 0.58	<b>6.60</b> 0.61	<b>6.98</b> 0.65	<b>7.36</b> 0.68
<b>30</b> 0.75	<b>0.62</b> 0.06	<b>1.15</b> 0.11	<b>1.68</b> 0.16	<b>2.22</b> 0.21	<b>2.75</b> 0.26	<b>3.28</b> 0.31	<b>3.81</b> 0.35	<b>4.34</b> 0.40	<b>4.88</b> 0.45	<b>5.41</b> 0.50	<b>5.94</b> 0.55	<b>6.47</b> 0.60	<b>7.00</b> 0.65	<b>7.54</b> 0.70	<b>8.07</b> 0.75	<b>8.60</b> 0.80	<b>9.13</b> 0.85	<b>9.66</b> 0.90	<b>10.20</b> 0.95
<b>36</b> 0.90	<b>0.79</b> 0.07	<b>1.47</b> 0.14	<b>2.15</b> 0.20	<b>2.83</b> 0.26	<b>3.51</b> 0.33	<b>4.19</b> 0.39	<b>4.87</b> 0.45	<b>5.55</b> 0.52	<b>6.23</b> 0.58	<b>6.91</b> 0.64	<b>7.59</b> 0.71	<b>8.27</b> 0.77	<b>8.95</b> 0.83	<b>9.63</b> 0.90	<b>10.31</b> 0.96	<b>10.99</b> 1.02	<b>11.67</b> 1.09	<b>12.35</b> 1.15	<b>13.03</b> 1.21
<b>42</b> 1.05	<b>0.97</b> 0.09	<b>1.79</b> 0.17	<b>2.62</b> 0.24	<b>3.45</b> 0.32	<b>4.28</b> 0.40	<b>5.10</b> 0.47	<b>5.93</b> 0.55	<b>6.76</b> 0.63	<b>7.59</b> 0.71	<b>8.41</b> 0.78	<b>9.24</b> 0.86	<b>10.07</b> 0.94	<b>10.90</b> 1.01	<b>11.72</b> 1.09	<b>12.55</b> 1.17	<b>13.38</b> 1.24	<b>14.21</b> 1.32	<b>15.03</b> 1.40	<b>15.86</b> 1.47
<b>48</b> 1.20	<b>1.14</b> 0.11	<b>2.11</b> 0.20	<b>3.09</b> 0.29	<b>4.06</b> 0.38	<b>5.04</b> 0.47	<b>6.01</b> 0.56	<b>6.99</b> 0.65	<b>7.96</b> 0.74	<b>8.94</b> 0.83	<b>9.91</b> 0.92	<b>10.89</b> 1.01	<b>11.87</b> 1.10	<b>12.84</b> 1.19	<b>13.82</b> 1.28	<b>14.79</b> 1.38	<b>15.77</b> 1.47	<b>16.74</b> 1.56	<b>17.72</b> 1.65	<b>18.69</b> 1.74
<b>54</b> 1.35	<b>1.31</b> 0.12	<b>2.43</b> 0.23	<b>3.56</b> 0.33	<b>4.68</b> 0.44	<b>5.80</b> 0.54	<b>6.93</b> 0.64	<b>8.05</b> 0.75	<b>9.17</b> 0.85	<b>10.29</b> 0.96	<b>11.42</b> 1.06	<b>12.54</b> 1.17	<b>13.66</b> 1.27	<b>14.79</b> 1.38	<b>15.91</b> 1.48	<b>17.03</b> 1.58	<b>18.16</b> 1.69	<b>19.28</b> 1.79	<b>20.40</b> 1.90	<b>21.52</b> 2.00
<b>60</b> 1.50	<b>1.48</b> 0.14	<b>2.75</b> 0.26	<b>4.02</b> 0.37	<b>5.29</b> 0.49	<b>6.57</b> 0.61	<b>7.84</b> 0.73	<b>9.11</b> 0.85	<b>10.38</b> 0.97	<b>11.65</b> 1.08	<b>12.92</b> 1.20	<b>14.19</b> 1.32	<b>15.46</b> 1.44	<b>16.73</b> 1.56	<b>18.00</b> 1.67	<b>19.27</b> 1.79	<b>20.54</b> 1.91	<b>21.81</b> 2.03	<b>23.09</b> 2.15	<b>24.36</b> 2.27
<b>66</b> 1.65	<b>1.65</b> 0.15	<b>3.07</b> 0.29	<b>4.49</b> 0.42	<b>5.91</b> 0.55	<b>7.33</b> 0.68	<b>8.75</b> 0.81	<b>10.17</b> 0.95	<b>11.57</b> 1.08	<b>13.00</b> 1.21	<b>14.42</b> 1.34	<b>15.84</b> 1.47	<b>17.26</b> 1.61	<b>18.68</b> 1.74	<b>20.10</b> 1.87	<b>21.51</b> 2.00	<b>22.93</b> 2.13	<b>24.35</b> 2.26	<b>25.77</b> 2.40	<b>27.19</b> 2.53
<b>72</b> 1.80	<b>1.83</b> 0.17	<b>3.39</b> 0.32	<b>4.96</b> 0.46	<b>6.53</b> 0.61	<b>8.09</b> 0.75	<b>9.66</b> 0.90	<b>11.22</b> 1.04	<b>12.79</b> 1.19	<b>14.36</b> 1.34	<b>15.92</b> 1.48	<b>17.49</b> 1.63	<b>19.06</b> 1.77	<b>20.62</b> 1.92	<b>22.19</b> 2.06	<b>23.76</b> 2.21	<b>25.32</b> 2.35	<b>26.89</b> 2.50	<b>28.45</b> 2.65	<b>30.02</b> 2.79
<b>78</b> 1.95	<b>2.00</b> 0.19	<b>3.71</b> 0.35	<b>5.43</b> 0.50	<b>7.14</b> 0.66	<b>8.86</b> 0.82	<b>10.57</b> 0.98	<b>12.28</b> 1.14	<b>14.00</b> 1.30	<b>15.71</b> 1.46	<b>17.43</b> 1.62	<b>19.14</b> 1.78	<b>20.85</b> 1.94	<b>22.57</b> 2.10	<b>24.28</b> 2.26	<b>26.00</b> 2.42	<b>27.71</b> 2.58	<b>29.42</b> 2.74	<b>31.14</b> 2.90	<b>32.85</b> 3.06
<b>84</b> 2.10	<b>2.17</b> 0.20	<b>4.03</b> 0.38	<b>5.90</b> 0.55	<b>7.76</b> 0.72	<b>9.62</b> 0.89	<b>11.48</b> 1.07	<b>13.34</b> 1.24	<b>15.20</b> 1.41	<b>17.07</b> 1.59	<b>18.93</b> 1.76	<b>20.79</b> 1.93	<b>22.65</b> 2.11	<b>24.51</b> 2.28	<b>26.38</b> 2.45	<b>28.24</b> 2.63	<b>30.10</b> 2.80	<b>31.96</b> 2.97	<b>33.82</b> 3.15	<b>35.68</b> 3.32
<b>90</b> 2.25	<b>2.34</b> 0.22	<b>4.35</b> 0.40	<b>6.36</b> 0.59	<b>8.37</b> 0.78	<b>10.38</b> 0.97	<b>12.39</b> 1.15	<b>14.40</b> 1.34	<b>16.41</b> 1.53	<b>18.42</b> 1.71	<b>20.43</b> 1.90	<b>22.44</b> 2.09	<b>24.45</b> 2.27	<b>26.46</b> 2.46	<b>28.47</b> 2.65	<b>30.48</b> 2.83	<b>32.49</b> 3.02	<b>34.50</b> 3.21	<b>36.51</b> 3.40	<b>38.52</b> 3.58
<b>96</b> 2.40	<b>2.52</b> 0.23	<b>4.67</b> 0.43	<b>6.83</b> 0.64	<b>8.99</b> 0.84	<b>11.15</b> 1.04	<b>13.30</b> 1.24	<b>15.46</b> 1.44	<b>17.62</b> 1.64	<b>19.78</b> 1.84	<b>21.93</b> 2.04	<b>24.09</b> 2.24	<b>26.25</b> 2.44	<b>28.40</b> 2.64	<b>30.56</b> 2.84	<b>32.72</b> 3.04	<b>34.88</b> 3.24	<b>37.03</b> 3.44	<b>39.19</b> 3.64	<b>41.35</b> 3.85
<b>102</b> 2.55	<b>2.69</b> 0.25	<b>4.99</b> 0.46	<b>7.30</b> 0.68	<b>9.60</b> 0.89	<b>11.91</b> 1.11	<b>14.21</b> 1.32	<b>16.52</b> 1.54	<b>18.82</b> 1.75	<b>21.13</b> 1.97	<b>23.43</b> 2.18	<b>25.74</b> 2.39	<b>28.04</b> 2.61	<b>30.35</b> 2.82	<b>32.65</b> 3.04	<b>34.96</b> 3.25	<b>37.27</b> 3.47	<b>39.57</b> 3.68	<b>41.88</b> 3.89	<b>44.18</b> 4.11
<b>108</b> 2.70	<b>2.86</b> 0.27	<b>5.31</b> 0.49	<b>7.77</b> 0.72	<b>10.22</b> 0.95	<b>12.67</b> 1.18	<b>15.13</b> 1.41	<b>17.58</b> 1.63	<b>20.03</b> 1.86	<b>22.48</b> 2.09	<b>24.94</b> 2.32	<b>27.39</b> 2.32	<b>29.84</b> 2.78	<b>32.30</b> 3.00	<b>34.75</b> 3.23	<b>37.20</b> 3.46	<b>39.65</b> 3.69	<b>42.11</b> 3.92	<b>44.56</b> 4.14	<b>47.01</b> 4.37
<b>114</b> 2.85	<b>3.03</b> 0.28	<b>5.63</b> 0.52	<b>8.24</b> 0.77	<b>10.84</b> 1.01	<b>13.44</b> 1.25	<b>16.04</b> 1.49	<b>18.64</b> 1.73	<b>21.24</b> 1.98	<b>23.84</b> 2.22	<b>26.44</b> 2.46	<b>29.04</b> 2.70	<b>31.64</b> 2.94	<b>34.24</b> 3.18	<b>36.84</b> 3.43	<b>39.44</b> 3.67	<b>42.04</b> 3.91	<b>44.64</b> 4.15	<b>47.24</b> 4.39	<b>49.84</b> 4.64
<b>120</b> 3.00	<b>3.21</b> 0.30	<b>5.95</b> 0.55	<b>8.70</b> 0.81	<b>11.45</b> 1.06	<b>14.20</b> 1.32	<b>16.95</b> 1.58	<b>19.70</b> 1.83	<b>22.44</b> 2.09	<b>25.19</b> 2.34	<b>27.94</b> 2.60	<b>30.69</b> 2.85	<b>33.44</b> 3.11	<b>36.19</b> 3.37	<b>38.93</b> 3.62	<b>41.68</b> 3.88	<b>44.43</b> 4.13	<b>47.18</b> 4.39	<b>49.93</b> 4.64	<b>52.68</b> 4.90

# PRESSURE DROP

Test size 48" wide x 48" high (1219 x 1219)



**Air Velocity in feet and (meters) per minute through Free Area**  
 (Data corrected to standard air density and AMCA figure or figures tested to 5.5)

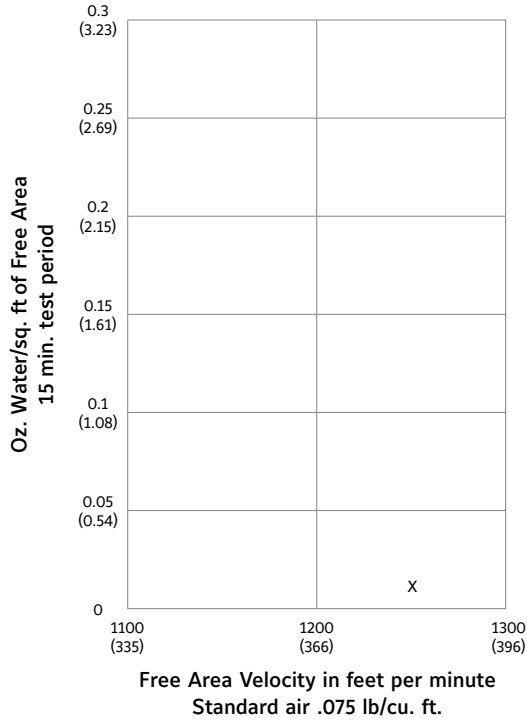
Ratings do not include the effect of a bird screen.

## WATER PENETRATION

### Water penetration

Test size 48" wide X 48" high (1219 X 1219)

Beginning point of water penetration at .01 oz./sq.ft.  
is 1250 fpm (381 m/min).



Ruskin Manufacturing Company certifies that the ELC6375DXD louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance rating and water penetration ratings only.



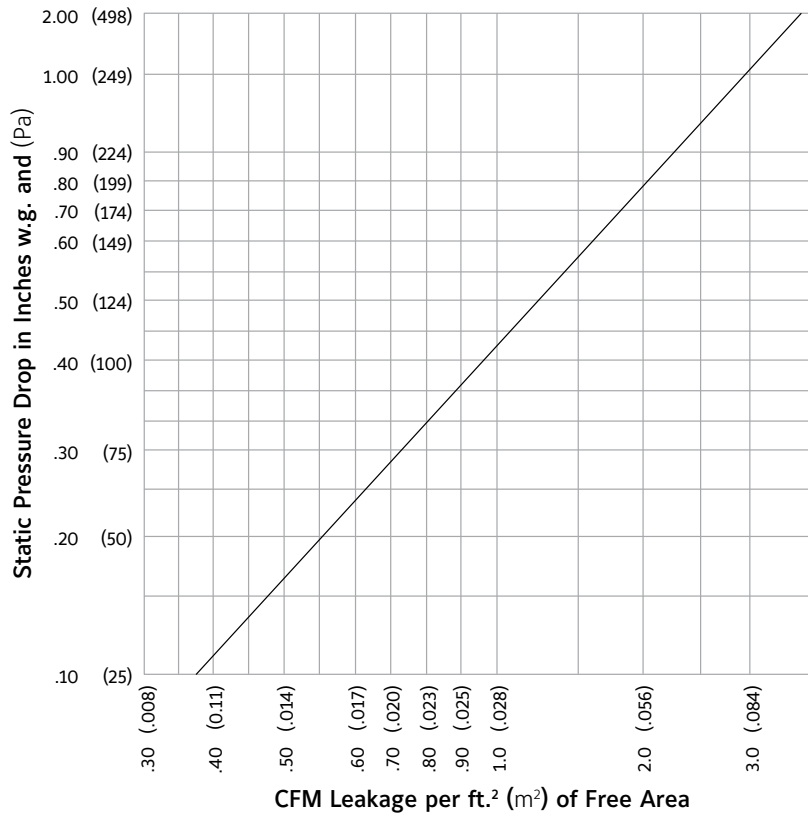
HIGH VELOCITY  
RAIN RESISTANT  
WITH BLADES FULLY CLOSED

See www.AMCA.org for all certified or listed products

This label does not signify  
AMCA airflow performance  
certification.

Ruskin certifies that the ELC6375DXD shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program.

## AIR LEAKAGE



## SUGGESTED SPECIFICATION

Furnish and install at locations shown on the plans or as described in schedules combination drainable stationary louver and low leak damper meeting the performance criteria established by the Florida Building Code and Miami-Dade County. Combination louvers shall be certified to FBC standards TAS 201 (Large Missile Impact), TAS 202 (Uniform Static Air Pressure) and TAS 203 (Cyclic Wind Loading). Combination louvers shall be manufactured in an ISO 9001 certified factory.

Combination louvers shall be furnished with bird and/or insect screens, electric, pneumatic, or manual actuators, supports and finishes as specified and as required for a complete installation. Combination louvers shall incorporate drainable stationary blade and separate adjustable airfoil damper blade in a single frame. All blades and frames shall be constructed of 6063-T6 aluminum alloy.

Louvers shall be Ruskin Model ELC6375DXD extruded 6063T6 aluminum alloy construction as follows:

### Material

Frame: .125" (3.2) wall thickness, caulking surfaces provided.

Blades: Stationary blades shall be .081" (2.1) and adjustable airfoil damper blades shall be .07" (1.7) nominal wall thickness.

Extended Sill : .081" (2.1) wall thickness with upturned side panels to prevent water leakage.

Screen: 5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame.

Finish: Select finish specification from Ruskin Finishes Brochure.

### Structural Design

Integral structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than 110 psf (5.27 kPa).

### TAS 203-94 CYCLIC WIND PRESSURE TEST

CYCLES	LOAD IN PSF (kPa)	LOAD DURATION CYCLE	LOUVER RECOVERY
600	+55.0 (+2.6)	1 to 3 seconds	100%
600	-55.0 (-2.6)	1 to 3 seconds	100%
70	+66.0 (+3.2)	1 to 3 seconds	100%
70	-66.0 (-3.2)	1 to 3 seconds	100%
1	+143.0 (+6.8)	1 to 3 seconds	100%
1	-143.0 (-6.8)	1 to 3 seconds	100%

### LINKS TO IMPORTANT DOCUMENTS

Document Title
Paint Finishes and Color Guide
Limited Warranty Document



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Grandview, MO 64030  
Website: [www.ruskin.com](http://www.ruskin.com)  
Phone: (816) 761-7476