

### Performance Ratings\*

Performance of 48 in. x 48 in. (1219 x 1219 mm) Louver

<b>Percentage of free area</b>	39,17 %
<b>Free area</b>	6,26 sq.ft. (0,581 m <sup>2</sup> )
<b>Water penetration</b> @ 0,010 oz/sq.ft.(3,05 gr/m <sup>2</sup> ) =	717,5 fpm (3,645 m/s)
<b>Free area intake velocity</b> @ Pressure drop 0,15 in. H <sub>2</sub> O (3,81 mm H <sub>2</sub> O) =	785 fpm (3,99 m/s)

\*performance ratings excluded bird screen and other accessories.

### Standard specifications

<b>Material</b>	Aluminum 6063-T5
<b>Depth</b>	50,8 mm (2")
<b>Blade thickness</b>	1,60 mm (0,063")
<b>"L" frame thickness</b>	2,06 mm (0,081")
<b>"U" frame thickness</b>	1,83 mm (0,072")
<b>Blades angle</b>	45°
<b>Center to center</b>	63,5 mm (2,5")
<b>Birdscreen</b>	Galvanized steel
<b>Finish</b>	Mill finish
<b>Assembly</b>	Mechanical
<b>Hardware</b>	Galvanized steel
<b>Approximate weight</b>	2,31 lbs/sq.ft.
<b>Minimum Size</b>	150 mm W x 305 mm H (6" W x 12" L)
<b>Maximum Single</b>	Unlimited**
<b>Section Size</b>	**The louver will be divided into sections, each with maximum size of 70 ft <sup>2</sup> (6.5 sq. m) to facilitate handling (width or height should not exceed 14 ft).



### Free area chart (sq.ft. & m<sup>2</sup>)

po	12	18	24	30	36	42	48	54	60	66	72
m	0,30	0,46	0,61	0,76	0,91	1,07	1,22	1,37	1,52	1,68	1,83
<b>12</b>	<b>0,23</b>	<b>0,36</b>	<b>0,49</b>	<b>0,63</b>	<b>0,76</b>	<b>0,85</b>	<b>0,98</b>	<b>1,11</b>	<b>1,25</b>	<b>1,38</b>	<b>1,51</b>
0,30	0,022	0,034	0,046	0,058	0,070	0,079	0,091	0,104	0,116	0,128	0,140
<b>18</b>	<b>0,47</b>	<b>0,73</b>	<b>1,00</b>	<b>1,26</b>	<b>1,52</b>	<b>1,72</b>	<b>1,98</b>	<b>2,25</b>	<b>2,51</b>	<b>2,77</b>	<b>3,03</b>
0,46	0,044	0,068	0,093	0,117	0,141	0,160	0,184	0,209	0,233	0,258	0,282
<b>24</b>	<b>0,61</b>	<b>0,95</b>	<b>1,29</b>	<b>1,63</b>	<b>1,97</b>	<b>2,22</b>	<b>2,56</b>	<b>2,90</b>	<b>3,24</b>	<b>3,58</b>	<b>3,92</b>
0,61	0,057	0,088	0,120	0,151	0,183	0,206	0,238	0,270	0,301	0,333	0,364
<b>30</b>	<b>0,84</b>	<b>1,31</b>	<b>1,78</b>	<b>2,25</b>	<b>2,72</b>	<b>3,08</b>	<b>3,55</b>	<b>4,02</b>	<b>4,49</b>	<b>4,96</b>	<b>5,43</b>
0,76	0,078	0,122	0,166	0,209	0,253	0,286	0,329	0,373	0,417	0,460	0,504
<b>36</b>	<b>1,08</b>	<b>1,68</b>	<b>2,29</b>	<b>2,89</b>	<b>3,49</b>	<b>3,94</b>	<b>4,55</b>	<b>5,15</b>	<b>5,75</b>	<b>6,36</b>	<b>6,96</b>
0,91	0,100	0,156	0,212	0,268	0,324	0,366	0,423	0,479	0,535	0,591	0,647
<b>42</b>	<b>1,21</b>	<b>1,89</b>	<b>2,57</b>	<b>3,25</b>	<b>3,92</b>	<b>4,43</b>	<b>5,11</b>	<b>5,79</b>	<b>6,46</b>	<b>7,14</b>	<b>7,82</b>
1,07	0,113	0,176	0,239	0,302	0,364	0,412	0,475	0,537	0,600	0,663	0,726
<b>48</b>	<b>1,45</b>	<b>2,26</b>	<b>3,07</b>	<b>3,88</b>	<b>4,69</b>	<b>5,30</b>	<b>6,26</b>	<b>6,92</b>	<b>7,73</b>	<b>8,54</b>	<b>9,35</b>
1,22	0,135	0,210	0,285	0,361	0,436	0,492	0,581	0,643	0,718	0,793	0,869
<b>54</b>	<b>1,59</b>	<b>2,48</b>	<b>3,36</b>	<b>4,25</b>	<b>5,14</b>	<b>5,81</b>	<b>6,69</b>	<b>7,58</b>	<b>8,47</b>	<b>9,36</b>	<b>10,24</b>
1,37	0,148	0,230	0,313	0,395	0,478	0,539	0,622	0,704	0,787	0,869	0,952
<b>60</b>	<b>1,82</b>	<b>2,84</b>	<b>3,86</b>	<b>4,87</b>	<b>5,89</b>	<b>6,66</b>	<b>7,67</b>	<b>8,69</b>	<b>9,71</b>	<b>10,72</b>	<b>11,74</b>
1,52	0,169	0,264	0,358	0,453	0,547	0,618	0,713	0,807	0,902	0,996	1,091
<b>66</b>	<b>2,05</b>	<b>3,20</b>	<b>4,34</b>	<b>5,49</b>	<b>6,63</b>	<b>7,49</b>	<b>8,64</b>	<b>9,78</b>	<b>10,93</b>	<b>12,07</b>	<b>13,22</b>
1,68	0,191	0,297	0,403	0,510	0,616	0,696	0,802	0,909	1,015	1,122	1,228
<b>72</b>	<b>2,19</b>	<b>3,42</b>	<b>4,64</b>	<b>5,87</b>	<b>7,09</b>	<b>8,01</b>	<b>9,24</b>	<b>10,46</b>	<b>11,68</b>	<b>12,91</b>	<b>14,13</b>
1,83	0,204	0,318	0,431	0,545	0,659	0,744	0,858	0,972	1,086	1,199	1,313
<b>78</b>	<b>2,43</b>	<b>3,79</b>	<b>5,15</b>	<b>6,50</b>	<b>7,86</b>	<b>8,88</b>	<b>10,24</b>	<b>11,59</b>	<b>12,95</b>	<b>14,31</b>	<b>15,67</b>
1,98	0,226	0,352	0,478	0,604	0,730	0,825	0,951	1,077	1,203	1,329	1,456
<b>84</b>	<b>2,57</b>	<b>4,01</b>	<b>5,45</b>	<b>6,88</b>	<b>8,32</b>	<b>9,40</b>	<b>10,83</b>	<b>12,27</b>	<b>13,71</b>	<b>15,14</b>	<b>16,58</b>
2,13	0,239	0,373	0,506	0,639	0,773	0,873	1,006	1,140	1,273	1,407	1,540



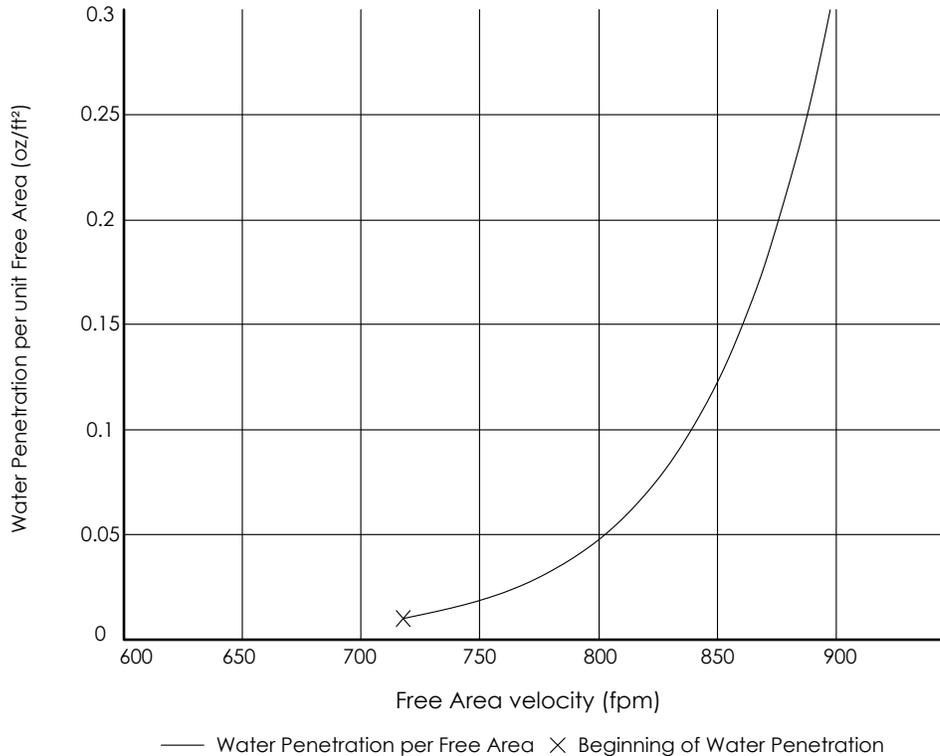
Cometal factory based in Lévis, province of Quebec



Basic warranty for mill finish louver

## Water Penetration

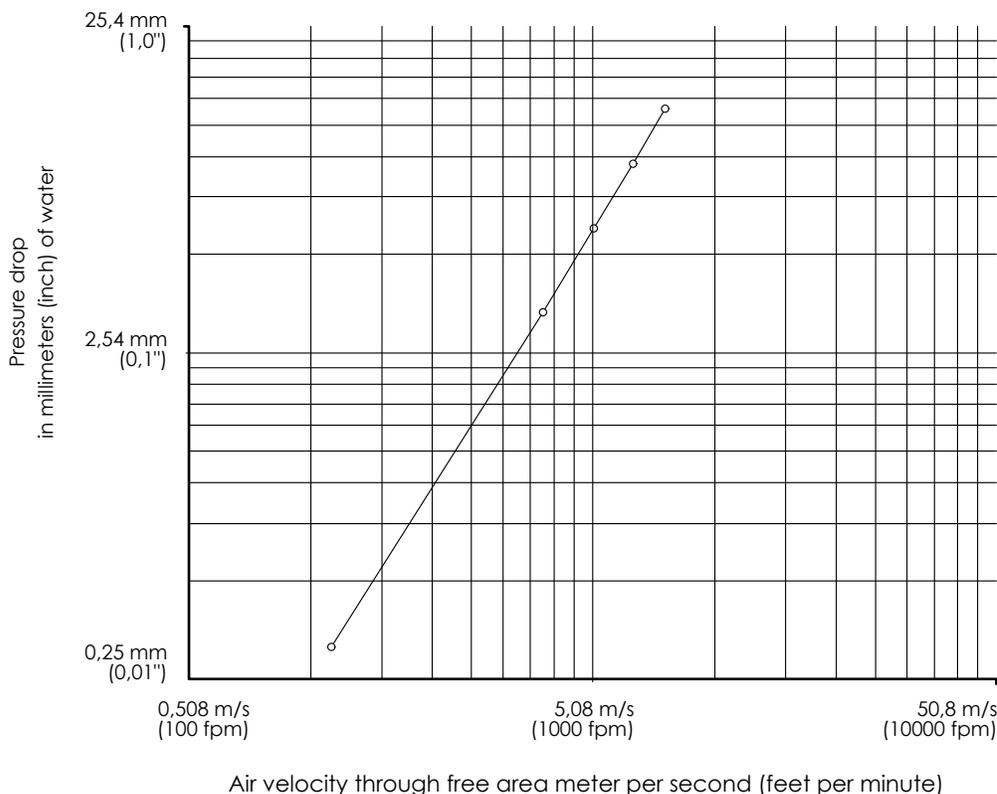
Test Size 48 in. x 48 in. (1219 mm x 1219 mm) Test duration of 15 minutes



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration defined as that velocity where the water penetration curve projects through 0.01 oz (3 g) of water (penetration) per sq. ft. (m<sup>2</sup>) of louver area. \*\* The beginning point of water penetration for model 102-45 is 717,5 fpm free area velocity. These performance ratings do not guarantee a louver to be waterproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louver model.

## Pressure drop

Test Size 48 in. x 48 in. (1219 mm x 1219 mm)



The resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size.

### CERTIFICATION AMCA



Cometal inc. certifies that the 102-45 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 Water Penetration and Air ratings. Louver were tested in accordance with AMCA Standard 500-L.

## Specifications

<b>Material</b>	Aluminum 6063-T5
<b>Blades</b>	Thickness 1,60 mm (0,063")
<b>L frame</b>	Thickness 2,06 mm (0,081")
<b>U frame</b>	Thickness 1,83 mm (0,072")

## Available frames

- "L" frame
- "U" frame
- Concealed mullion (continuous blades)
- Exposed mullions (nested frames)

## Available finish

- Mill
- Anodized clear 10 microns
- Anodized clear 18 microns
- Anodized light bronze
- Anodized architectural bronze
- Anodized champagne
- Anodized black
- Acrylic polyurethane coating\*
- Liquid super durable coating \*
- Duranar baked enamel \*
- Duranar XL baked enamel\*
- Powder coating \*

Color : \_\_\_\_\_

\* Painted on surfaces visible from the outside only

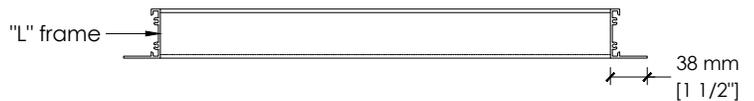
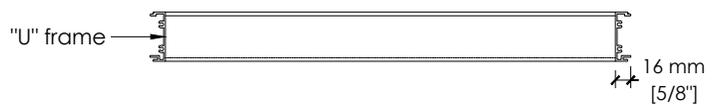
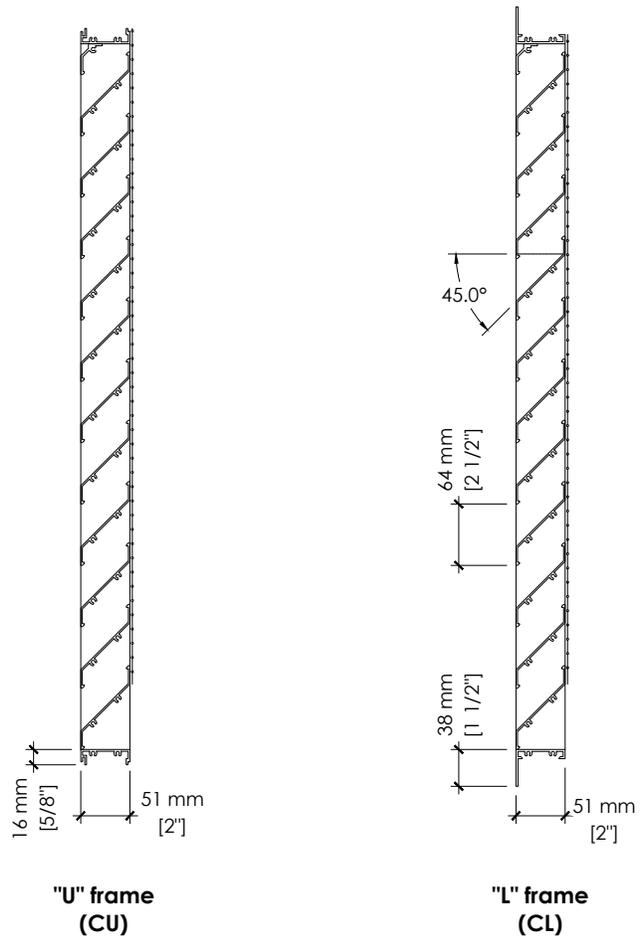
## Birdscreens and accessories

- Galvanized steel (standard)
- Expanded aluminum
- Woven aluminum
- Stainless steel
- Aluminum mosquito net
- Fiberglass mosquito net
- Permanent filter
- Birdscreen frame
- Non-insulated obturating panel 0,8 mm [0,032"]
- Insulated obturating panel 50 mm [2"]

Finish : \_\_\_\_\_

Color : \_\_\_\_\_

Others : \_\_\_\_\_



## Project

Name : \_\_\_\_\_

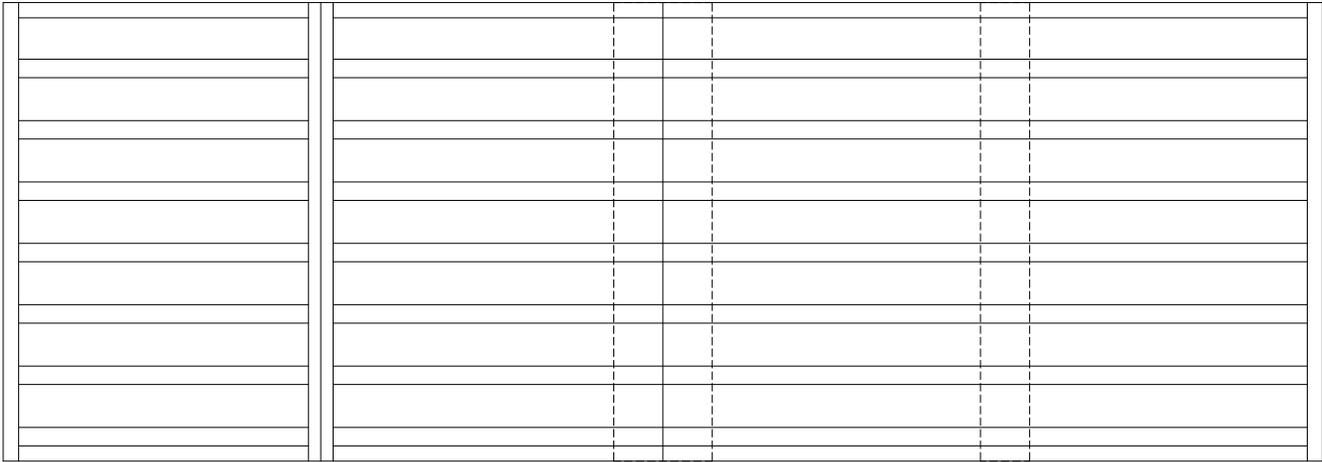
Arch./Eng.: \_\_\_\_\_

Contractor : \_\_\_\_\_

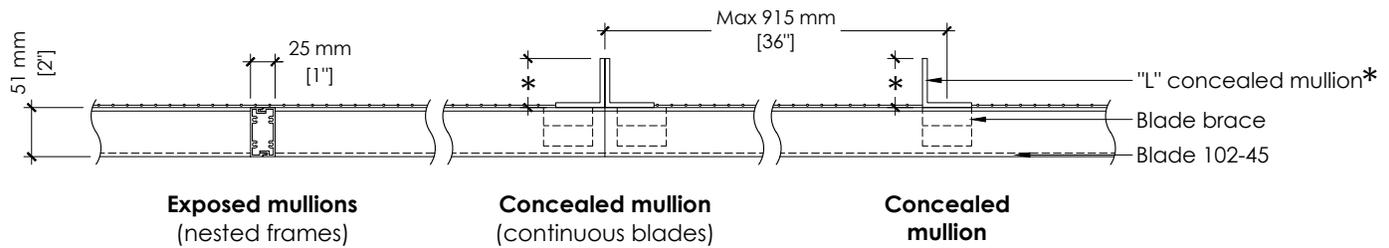
# OF / # PO : \_\_\_\_\_

Date : \_\_\_\_\_

## Elevation (outside view)



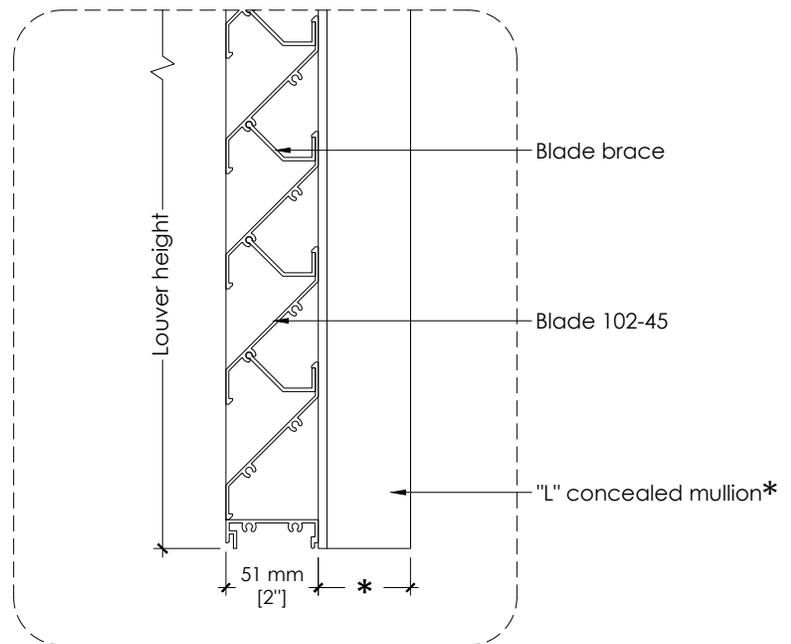
## Section



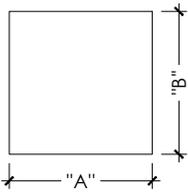
## louver concealed mullion

For louvers more than 1220 mm (48") wide, a supporting structure is needed behind the louver

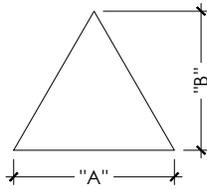
		*Louver concealed mullion dimension
Louver height	Less than 2438 mm (96")	38 x 38 x 4,7 mm angle (1 1/2" x 1 1/2" x 3/16")
	from 2438 mm (96") to 3658 mm (144")	51 x 51 x 4,7 mm angle (2" x 2" x 3/16")
	more than 3658 mm (144")	Please see the engineering departement



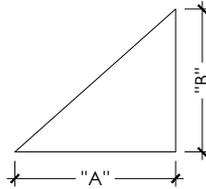
## Shapes



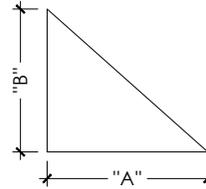
Rectangle / square



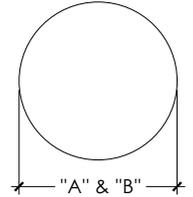
Triangle



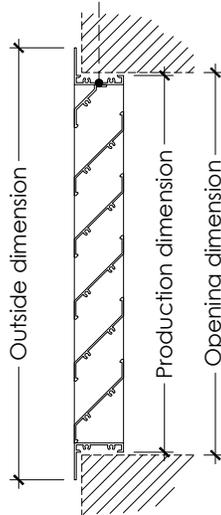
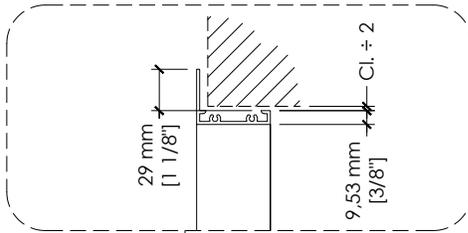
Left triangle



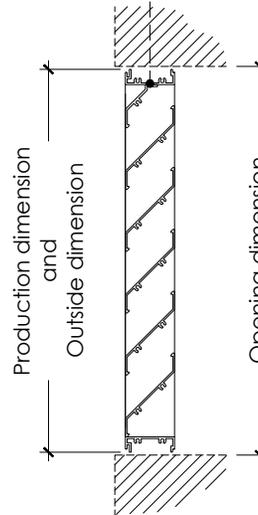
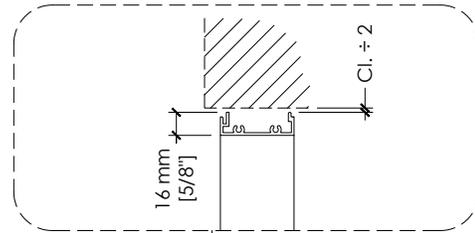
Right triangle



Round



"L" frame (CL)



"U" frame (CU)

Outside dimensions

Opening dimensions

Production dimensions

Item	Qty	Dimensions		Number of sections		Clearance (6 mm (1/4") minimum recommended)	Notes
		Width "A"	Height "B"	wide	High		