

# OLS DEFLECTION GRILLE



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**OLS MANUFACTURING CO.**

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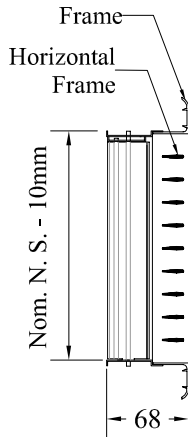
Scope: Design and Manufacturing



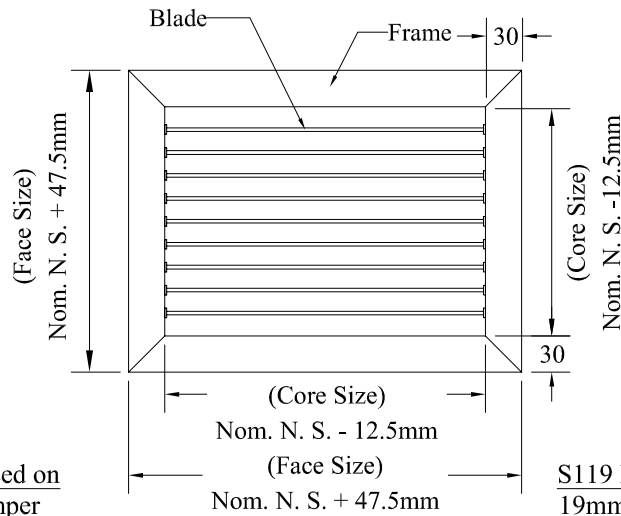
Accredited  
Laboratory  
LA-2020-0755-G

Cert. No.:  
LA-2020-0755-G

## Submittal



S119 horizontal blade based on 19mm spacing with damper



S119 horizontal blade based on 19mm spacing without damper

### FEATURES:

1. The grille blade and frame are made of corrosion-resistant aluminum alloy 6063 tempered to T5.
2. Corner inserts ensure the hairline joint, and after powder coating, the frame corner joint is not visible.
3. Horizontal airfoil blades allow for adjustment of air discharge patterns vertically to compensate for throw and drop to suit the room shape and configuration. - (for horizontal blade only)
4. Airfoil blades spaced at 13 or 19 mm centers ensure low generated noise and pressure loss, and desired air discharge direction.
5. The blades are easily adjustable from the grille face.
6. Each blade pivots on non-metallic bushes prevent metal-to-metal contact between the blade and the frame, providing a rattle-proof design.
7. Non-metallic bushes ensure each blade will stay put at the desired setting.
8. Opposed blade damper is constructed of extruded aluminum alloy 6063 tempered to T5 and is adjustable from the grille face without a unique tool.

### SIZE AVAILABILITY:

1. Minimum neck size is 100mm(W) x 100mm(H), when the size exceed 450 mm width then support channel will be provided at every 450mm spacing to strengthen the blade. Maximum neck size for single module up to 2400mm(W) x 1200mm(H).
2. For larger sizes or multiple modules will be supplied separately but assembly on site will be by others.
3. Standard grille comes with 30mm frame. 17mm frame can also be provided as an option. 60mm frame suitable for installation with fire damper.

### DAMPER OPTIONS:

- ☐ Non  
☐ Aluminium opposed blade damper

### DAMPER COLOUR OPTIONS:

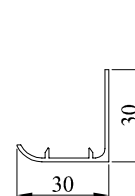
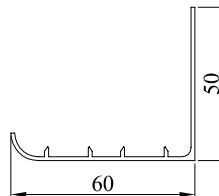
- ☐ Non  
☐ Black RAL9004

### GRILLE COLOUR OPTIONS:

- ☐ White RAL 9010 (Semi Glass)  
☐ White RAL 9003 (Semi Glass)  
☐ Black RAL 9004  
☐ Other colour, specify RAL : \_\_\_\_\_

### FRAME TYPE OPTIONS:

- ☐ 60mm ☐ 30mm ☐ 17mm




### BLADE OPTIONS:

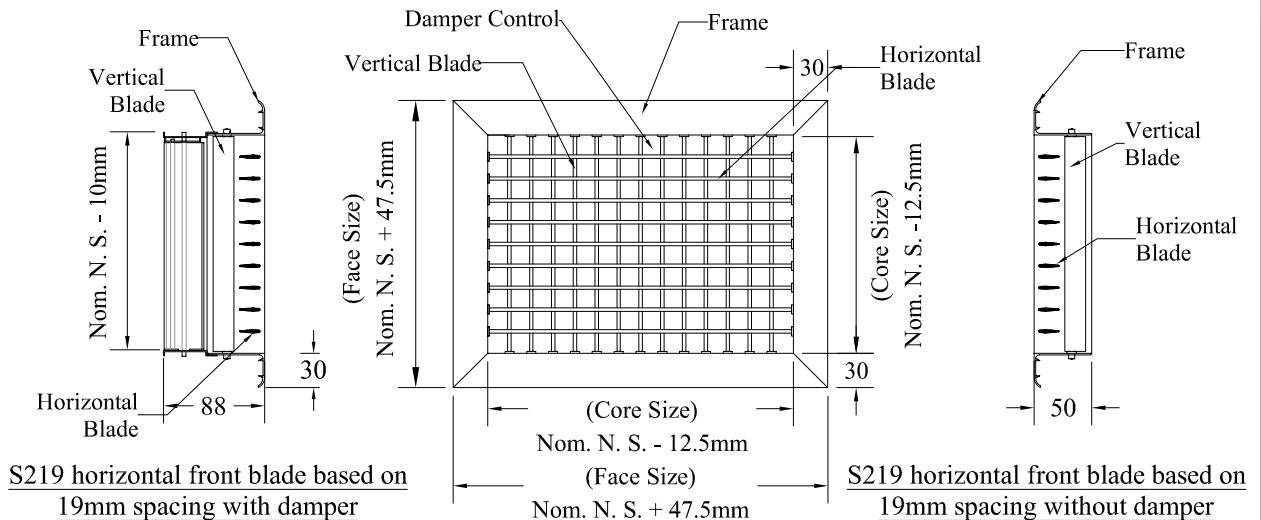
- ☐ S113H: horizontal blade fixed at 13mm centers  
☐ S119H: horizontal blade fixed at 19mm centers

*In the interest of product improvement, we reserved the right to make changes without notice.*

*All dimensions are in mm*

Title : Individually Adjustable Horizontal Blade Single Deflection Supply Air Grille And Register, Model S113H, S113H-D2, S119H, S119H-D2				Project :		
 <b>CONNOLS-AIR</b> 3-B, Joo Koon Circle, Singapore 629034 Tel.: 68615253 Fax.: 68619850 email: team.tvmsd@connols-air.com http://www.connols-air.com	Dwn. By :	Edward		Date :	12/10/2020	Scale :
	Chk. By :	Jing Jing		Dwg. No. :	APXEP007	N.T.S
	App. By :	Wong				

## Submittal



### FEATURES:

1. The grille blade and frame are made of corrosion-resistant aluminum alloy 6063 tempered to T5.
2. Corner inserts ensure the hairline joint, and after powder coating, the frame corner joint is not visible.
3. Horizontal and vertical individually adjustable airfoil blades allow a wide range of air discharge patterns vertically and horizontally to suit the room shape and configuration.
4. For grille height up to 400 mm, the grille looks aesthetically better with vertical front blades.
5. Individually adjustable airfoil blades spaced at 13 or 19 mm centers ensure low generated noise and pressure loss, and desired air discharge direction.
6. The blade is easily adjusted from the grille face.
7. Each blade pivots on non-metallic bushes prevent metal-to-metal contact between the blade and the frame, providing a rattle-proof design.
8. Non-metallic bushes ensure each blade will stay put at the desired setting.
9. Opposed blade damper is constructed of extruded aluminum alloy 6063 tempered to T5 and is adjustable from the grille face without a unique tool.

### SIZE AVAILABILITY:

1. Minimum neck size is 100mm(W) x 100mm(H), when the size exceed 450 mm width then support channel will be provided at every 450mm spacing to strengthen the blade. Maximum neck size for single module up to 2400mm(W) x 1200mm(H).
2. For larger sizes or multiple modules will be supplied separately but assembly on site will be by others.
3. Standard grille comes with 30mm frame. 17mm frame can also be provided as an option. 60mm frame suitable for installation with fire damper.
4. For grille height less than 400mm, vertical front blade will be aesthetic better looking.

### DAMPER OPTIONS:

- ☐ Non  
☐ Aluminium opposed blade damper

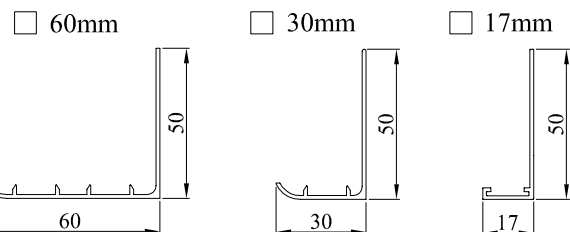
### DAMPER COLOUR OPTIONS:

- ☐ Non  
☐ Matt Black RAL9004

### GRILLE COLOUR OPTIONS:

- ☐ White RAL 9010 (Semi Glass)  
☐ White RAL 9003 (Semi Glass)  
☐ Matt Black RAL 9004  
☐ Other colour, specify RAL : \_\_\_\_\_

### FRAME TYPE OPTIONS:








### BLADE OPTIONS:

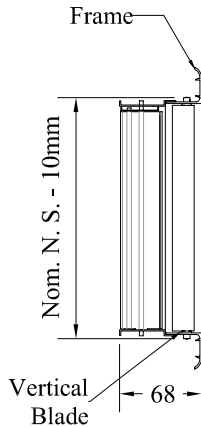
- ☐ S213H: horizontal blade fixed at 13mm centers  
☐ S219H: horizontal blade fixed at 19mm centers

*In the interest of product improvement, we reserved the right to make changes without notice.*

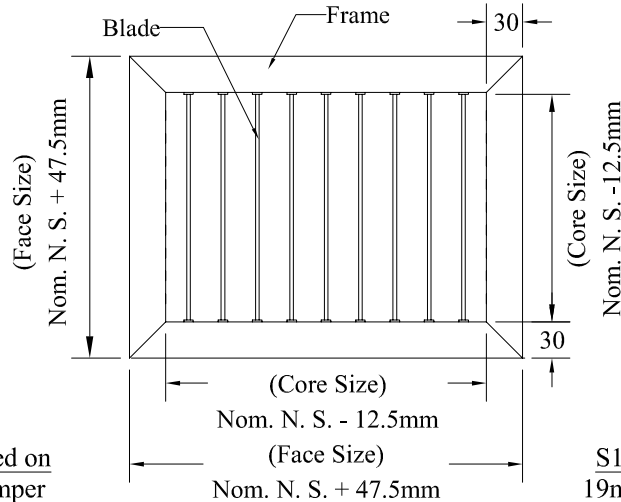
*All dimensions are in mm*

Title : Individually Adjustable Horizontal Front Blade Double Deflection Supply Air Grille And Register, Model S213H, S213H-D2, S219H, S219H-D2			Project :		
 <b>CONNOLLS-AIR</b> 3-B, Joo Koon Circle, Singapore 629034 Tel.: 68615253 Fax.: 68619850 email: team.tvmsfd@connolls-air.com http://www.connolls-air.com	Dwn. By :	Edward 	Date :	12/10/2020	Scale :
	Chk. By :	Jing Jing 	Dwg. No. :	APXEP008	N.T.S
	App. By :	Wong 			

## Submittal



S119 vertical blade based on 19mm spacing with damper



S119 vertical blade based on 19mm spacing without damper

### FEATURES:

1. The grille blade and frame are made of corrosion-resistant aluminum alloy 6063 tempered to T5.
2. Corner inserts ensure the hairline joint, and after powder coating, the frame corner joint is not visible.
3. Vertical airfoil blades allow for adjustment of air discharge patterns horizontally to compensate for spread to suit the room shape and configuration.
4. Airfoil blades spaced at 13 or 19 mm centers ensure low generated noise and pressure loss, and desired air discharge direction.
5. The blades are easily adjustable from the grille face.
6. Each blade pivots on non-metallic bushes prevent metal-to-metal contact between the blade and the frame, providing a rattle-proof design.
7. Non-metallic bushes ensure each blade will stay put at the desired setting.
8. Opposed blade damper is constructed of extruded aluminum alloy 6063 tempered to T5 and is adjustable from the grille face without a unique tool.

### SIZE AVAILABILITY:

1. Minimum neck size is 100mm(W) x 100mm(H), when the size exceed 450 mm width then support channel will be provided at every 450mm spacing to strengthen the blade. Maximum neck size for single module up to 2400mm(W) x 1200mm(H).
2. For larger sizes or multiple modules will be supplied separately but assembly on site will be by others.
3. Standard grille comes with 30mm frame. 17mm frame can also be provided as an option. 60mm frame suitable for installation with fire damper.

### DAMPER OPTIONS:

- ☐ Non  
☐ Aluminium opposed blade damper

### DAMPER COLOUR OPTIONS:

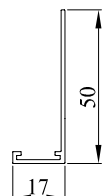
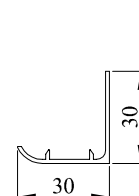
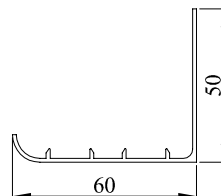
- ☐ Non  
☐ Matt Black RAL9004

### GRILLE COLOUR OPTIONS:

- ☐ White RAL 9010 (Semi Glass)  
☐ White RAL 9003 (Semi Glass)  
☐ Matt Black RAL 9004  
☐ Other colour, specify RAL : \_\_\_\_\_

### FRAME TYPE OPTIONS:

- ☐ 60mm ☐ 30mm ☐ 17mm




### BLADE OPTIONS:

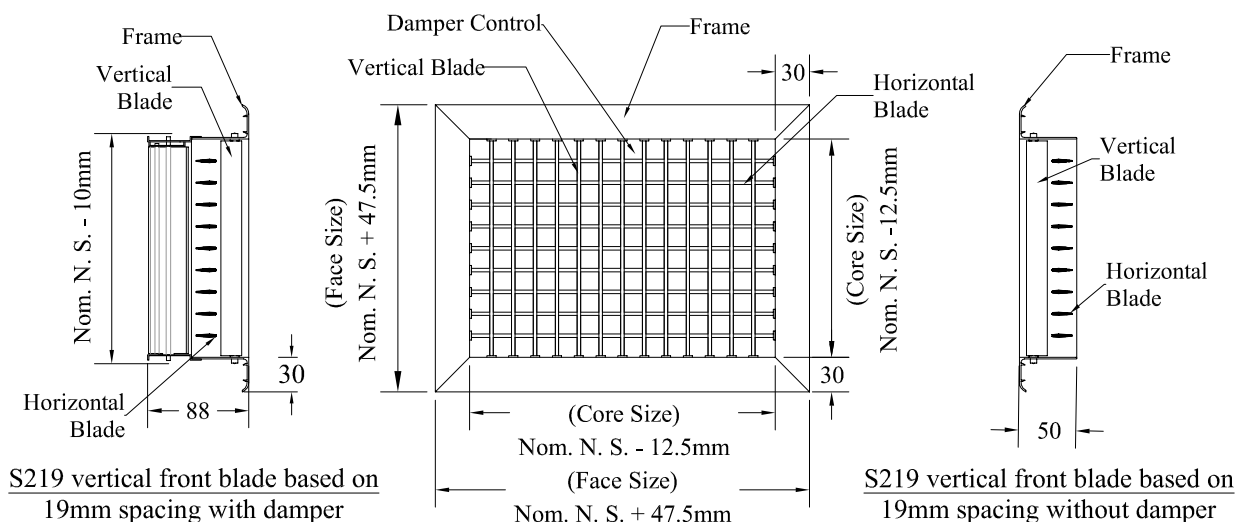
- ☐ S113V: vertical blade fixed at 13mm centers  
☐ S119V: vertical blade fixed at 19mm centers

*In the interest of product improvement, we reserved the right to make changes without notice.*

*All dimensions are in mm*

Title : Individually Adjustable Vertical Blade Double Deflection Supply Air Grille And Register, Model S113V, S113V-D2, S119V, S119V-D2				Project :		
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	Chk. By :	Jing Jing		Dwg. No. :	APXEP009	N.T.S
	App. By :	Wong				

## Submittal



### FEATURES:

1. The grille blade and frame are made of corrosion-resistant aluminum alloy 6063 tempered to T5.
2. Corner inserts ensure the hairline joint, and after powder coating, the frame corner joint is not visible.
3. Horizontal and vertical individually adjustable airfoil blades allow a wide range of air discharge patterns vertically and horizontally to suit the room shape and configuration.
4. For grille height up to 400 mm, the grille looks aesthetically better with vertical front blades.
5. Individually adjustable airfoil blades spaced at 13 or 19 mm centers ensure low generated noise and pressure loss, and desired air discharge direction.
6. The blade is easily adjusted from the grille face.
7. Each blade pivots on non-metallic bushes prevent metal-to-metal contact between the blade and the frame, providing a rattle-proof design.
8. Non-metallic bushes ensure each blade will stay put at the desired setting.
9. Opposed blade damper is constructed of extruded aluminum alloy 6063 tempered to T5 and is adjustable from the grille face without a unique tool.

### SIZE AVAILABILITY:

1. Minimum neck size is 100mm(W) x 100mm(H), when the size exceed 450 mm width then support channel will be provided at every 450mm spacing to strengthen the blade. Maximum neck size for single module up to 2400mm(W) x 1200mm(H).
2. For larger sizes or multiple modules will be supplied separately but assembly on site will be by others.
3. Standard grille comes with 30mm frame. 17mm frame can also be provided as an option. 60mm frame suitable for installation with fire damper.
4. For grille height less than 400mm, vertical front blade will be aesthetic better looking.

### DAMPER OPTIONS:

- ☐ Non  
☐ Aluminium opposed blade damper

### DAMPER COLOUR OPTIONS:

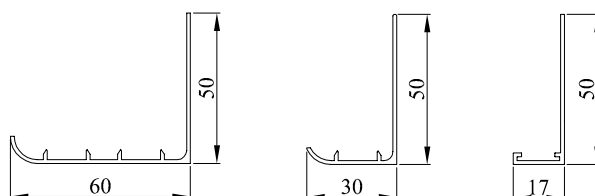
- ☐ Non  
☐ Matt Black RAL9004

### GRILLE COLOUR OPTIONS:

- ☐ White RAL 9010 (Semi Glass)  
☐ White RAL 9003 (Semi Glass)  
☐ Matt Black RAL 9004  
☐ Other colour, specify RAL : \_\_\_\_\_

### FRAME TYPE OPTIONS:

- ☐ 60mm ☐ 30mm ☐ 17mm






### BLADE OPTIONS:

- ☐ S213V: vertical blade fixed at 13mm spacing  
☐ S219V: vertical blade fixed at 19mm spacing

*In the interest of product improvement, we reserved the right to make changes without notice.*

*All dimensions are in mm*

Title : Individually Adjustable Vertical Front Blade Double Deflection Supply Air Grille And Register, Model S213V, S213V-D2, S219V, S219V-D2				Project :		
 3-B, Joo Koon Circle, Singapore 629034 Tel.: 68615253 Fax.: 68619850 email: team.ade@connols-air.com http://www.connols-air.com	Dwn. By :	Edward 	Date :	12/10/2020	Scale :	
	Chk. By :	Jing Jing 	Dwg. No. :	APXEP010	N.T.S	
	App. By :	Wong 