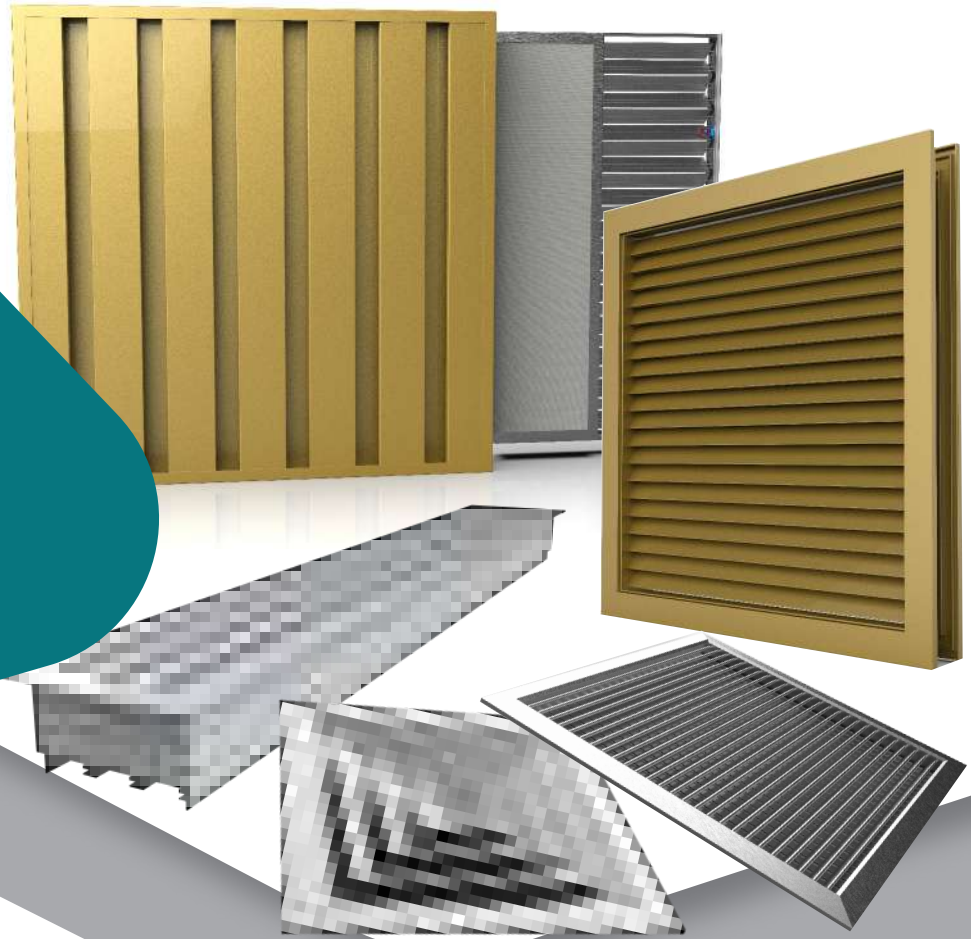




CASTLE
ENGINEERING
INDUSTRIES



AIR OUTLETS

AIR OUTLETS

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Linear Steel Grille

Chapter 14

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Description

Our LSG Series of linear Steel grilles are meticulously crafted for a diverse array of settings, including residential, commercial, and industrial environments. Designed with versatility in mind, these grilles can seamlessly integrate into sidewalls or plenum boxes, providing optimal airflow distribution. When exposed air ducts are necessary, our grilles can be effortlessly attached to duct collars for a streamlined installation process. Engineered to excel in cooling, heating, and ventilation applications, they are adept at managing varying airflow volumes and temperature differentials while ensuring superior air diffusion for enhanced comfort in any occupied space.

Standard Construction Materials:

Our linear Steel grilles feature frames and blades constructed from high-quality extruded Galvanized or Stainless-Steel profiles, ensuring durability and longevity.

Galvanized Or Stainless-Steel blades are precisely mounted within the frame to offer varying degrees of air deflection, including 15° and 45° options, providing flexibility to meet specific airflow requirements.

Damper:

as the frame and blades, our grilles can easily accommodate volume control dampers if necessary. These dampers can be effortlessly attached to the top side of the grille using locking clips.

Air volume can be conveniently regulated by adjusting the damper blades directly from the face of the grille using a screwdriver, allowing for precise control over airflow.

Finish:

Our standard coating finish for the linear Steel grilles is a high-quality polyester powder coating in white colour RAL 9010 (Code: Z0), providing both durability and aesthetic appeal.

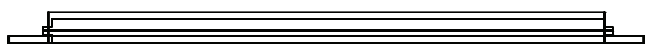
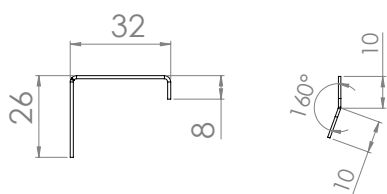
For volume control dampers, the coating finish is polyester powder coating in black colour, ensuring consistency and functionality.



Models & Dimensions

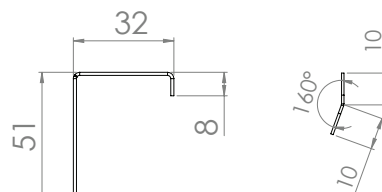
1-AT Single Deflection (ATSF)

Frame & Blades: outside frame (th1mm)-blade (th0.8mm)-rivet clips with pitch 20mm.



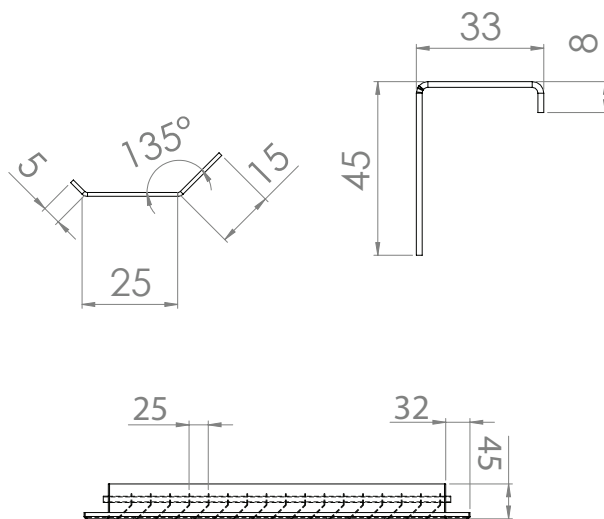
2-AT Double Deflection (ATDF)

Frame & Blades: outside frame (th1mm)-blade (th0.8mm)-rivet clips with pitch 20mm.



3-AR Single Deflection (ARSF)

Frame & Blades: outside frame (th1.5mm)-blade (th1mm)-rivet clips with pitch 25mm.



4-Upper models With Damper

We Should Put "/D" After the Model Code.

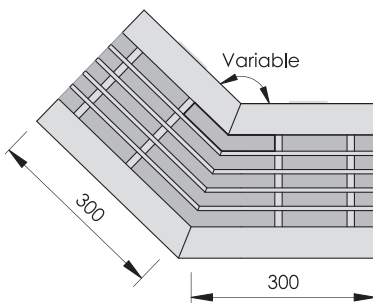
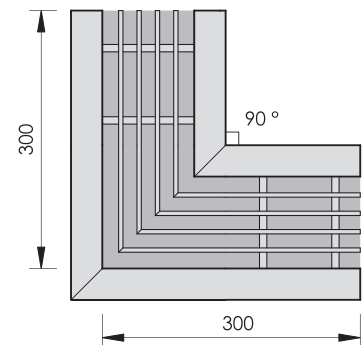
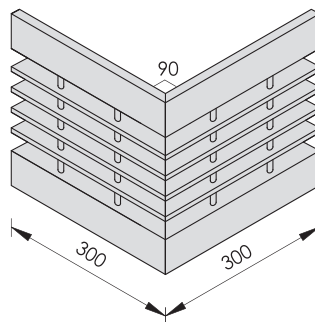
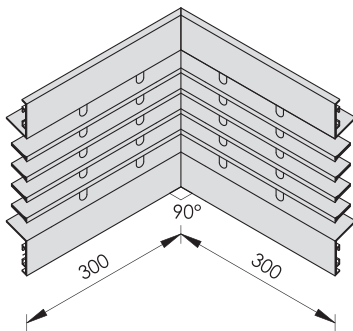
5-Upper models Material (Galvanized or Stainless Steel)

We Should Put "/GI or /SS" After the Model Code

Quick selection table

WITH VERTICAL REAR BLADES					W/O REAR BLADES				
Standard Heights		Length	CFM Range		Standard Heights		Length	CFM Range	
mm	Inch				mm	Inch			
4"	100	1000	350	800	4"	100	1000	500	1100
6"	150		550	1250	6"	150		725	1650
8"	200		725	1700	8"	200		950	2100
10"	250		850	2000	10"	250		1250	2500
12"	300		1080	2300	12"	300		1450	3400
4"	100	1500	550	1250	4"	100	1500	700	1600
6"	150		800	1850	6"	150		1075	2350
8"	200		1080	2300	8"	200		1425	3150
10"	250		1300	2600	10"	250		1875	3750
12"	300		1600	3700	12"	300		2175	5100
4"	100	2000	750	1600	4"	100	2000	1000	2200
6"	150		1100	2500	6"	150		1450	3300
8"	200		1450	3400	8"	200		1900	4200
10"	250		1700	4000	10"	250		2500	5000
12"	300		2160	4600	12"	300		2900	6800

Unit Assemblies

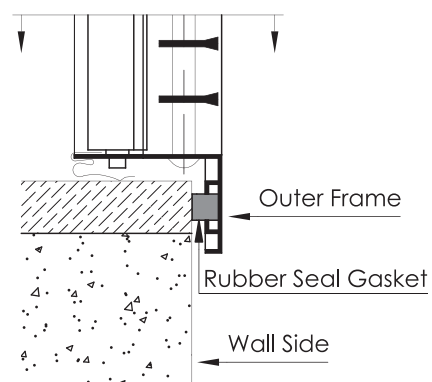


ACCESSORIES

• Opposed Blade Damper

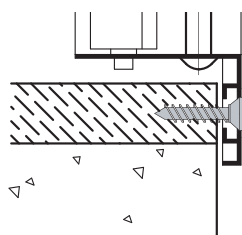


• Rubber Gasket



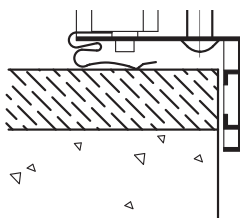
Fixing Details

a) Screw



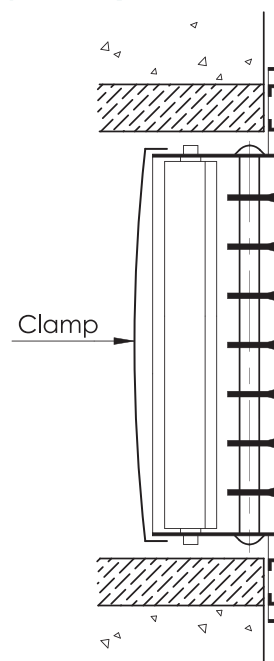
Fixing type S
With $\varnothing 4$ mm holes on flange for
self-tapping screw.
Self-tapping
screw by others

b) Spring Clip



Fixing type C
With fixing outer frame with
spring on the wall

c) Clamp mounting



Fixing type B
With fixing bracket and without
holes on flange.

Ordering Data

- **Model code.**
 - **Grille or Register Dimensions.**
 - **Surface Finishes for Linear Steel Grilles.**
- Powder Coating (standard 9010/9016) Other Colours Are Optional.**
- Other Special Finish Is on Request If Available.**



CASTLE
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Location

