

LOUVERS



GL	Gravity Louvers
EAL	Exhaust Air Louvers
FAL	Fresh Air Louvers
FL	Filter Louvers
STLW	Wall Mounted Sand Trap Louvers
STLF	Flush Mounted Sand Trap Louvers



GRAVITY LOUVERS (GL)



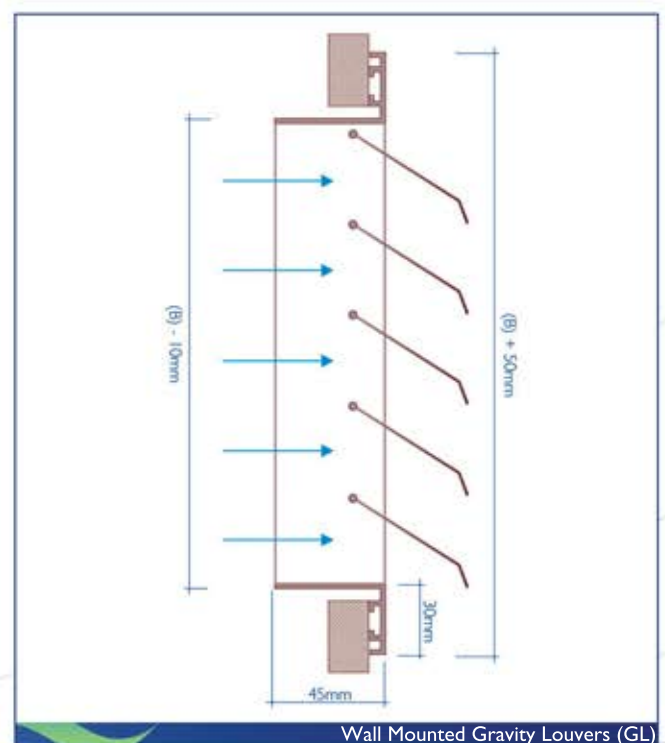
Gravity Louvers (GL)

The GL is a wall mounted device that is composed of a set of horizontally mounted blades that are normally closed and are free to rotate around their horizontal axis.

This louver serves as a non-return damper and can be used at the exit terminal of exhaust ducts and fans.

A certain pressure is usually required before the damper opens to expel the exhaust air, which ensures the elimination of back flow.

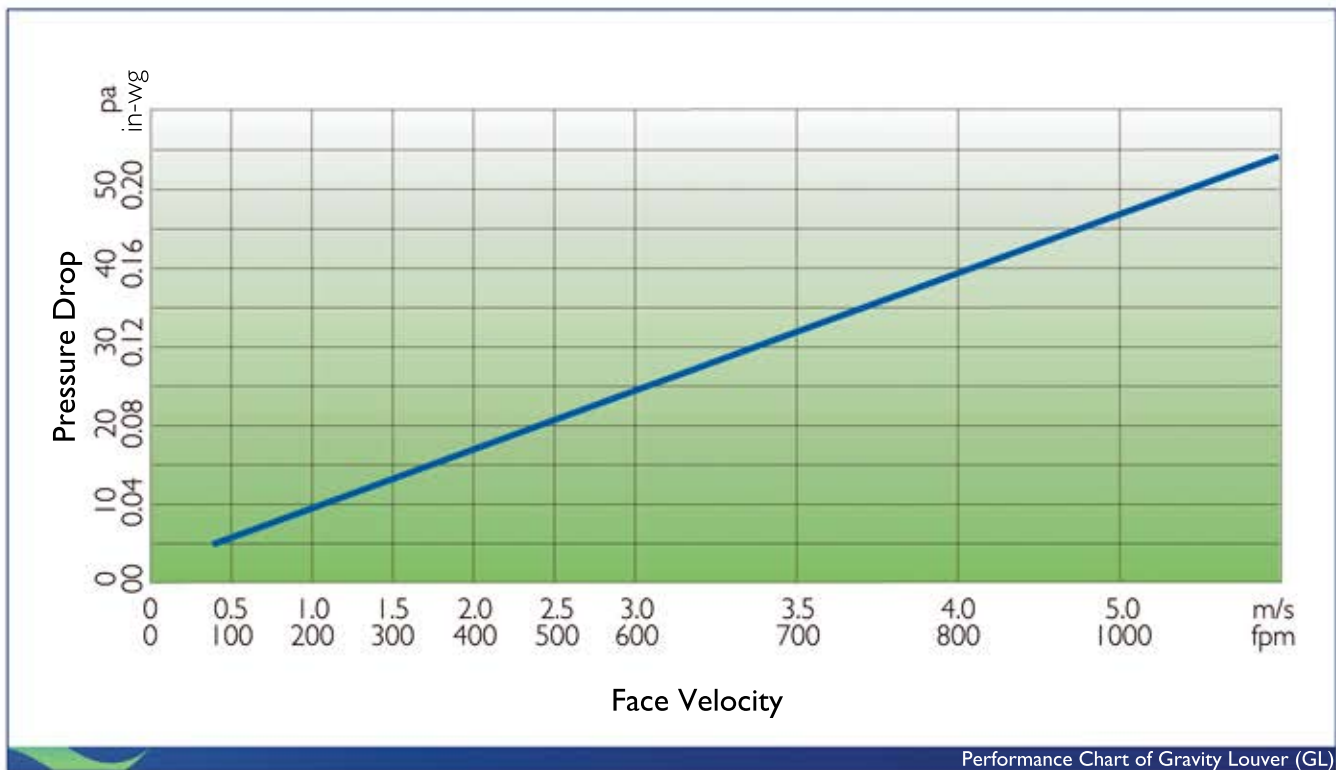
The blades are made from light weight aluminium sheets while the frame is made from extruded aluminium. 30mm frame as a standard. 20mm and 25mm are available, if required.



Wall Mounted Gravity Louvers (GL)

Free area ratio = 0.81 for 100% open blades.
 To calculate the pressure drop:

$$\text{Face Velocity} = \text{Air Flow} / \text{Area of the Louver}$$



EXHAUST AIR LOUVERS (EAL)



Exhaust Air Louvers (EAL)

The Exhaust Air Louver is a weather proof external cover for air inlets and discharge openings, suitable for most external walls and screening applications.

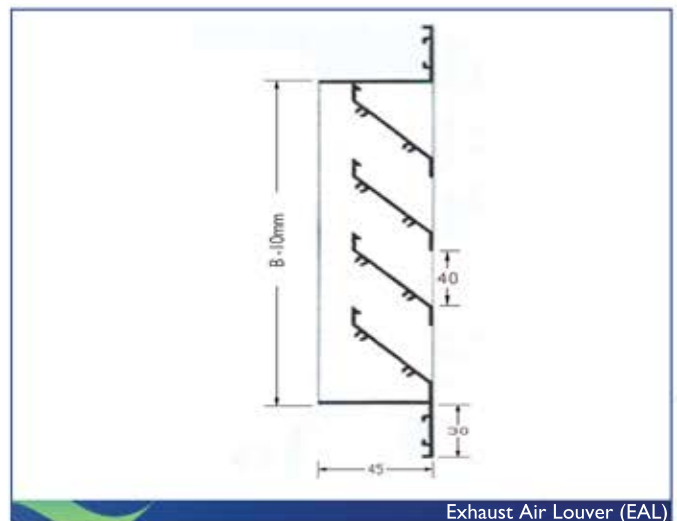
The EAL with a free area of 41% is composed of frame and horizontal blade assembly, manufactured from 1.2mm thick high quality extruded aluminium profiles. Blades are fixed rigidly to the main frame by rivets and set at an angle of 45° to the horizontal with 40mm spacing inclined downward to protect against rain water.

30mm frame as a standard. 20mm and 25mm are available, if required.

An EAL (EAL-100) with an average free area above 50% is available upon request. With 100mm depth.

A heavy duty option (EAL-H) also is available with 2mm thick extruded Aluminium frame and blades. With 40mm frame and 50mm depth

Another option available is a Louver (IL) specifically designed for the indoor purpose.



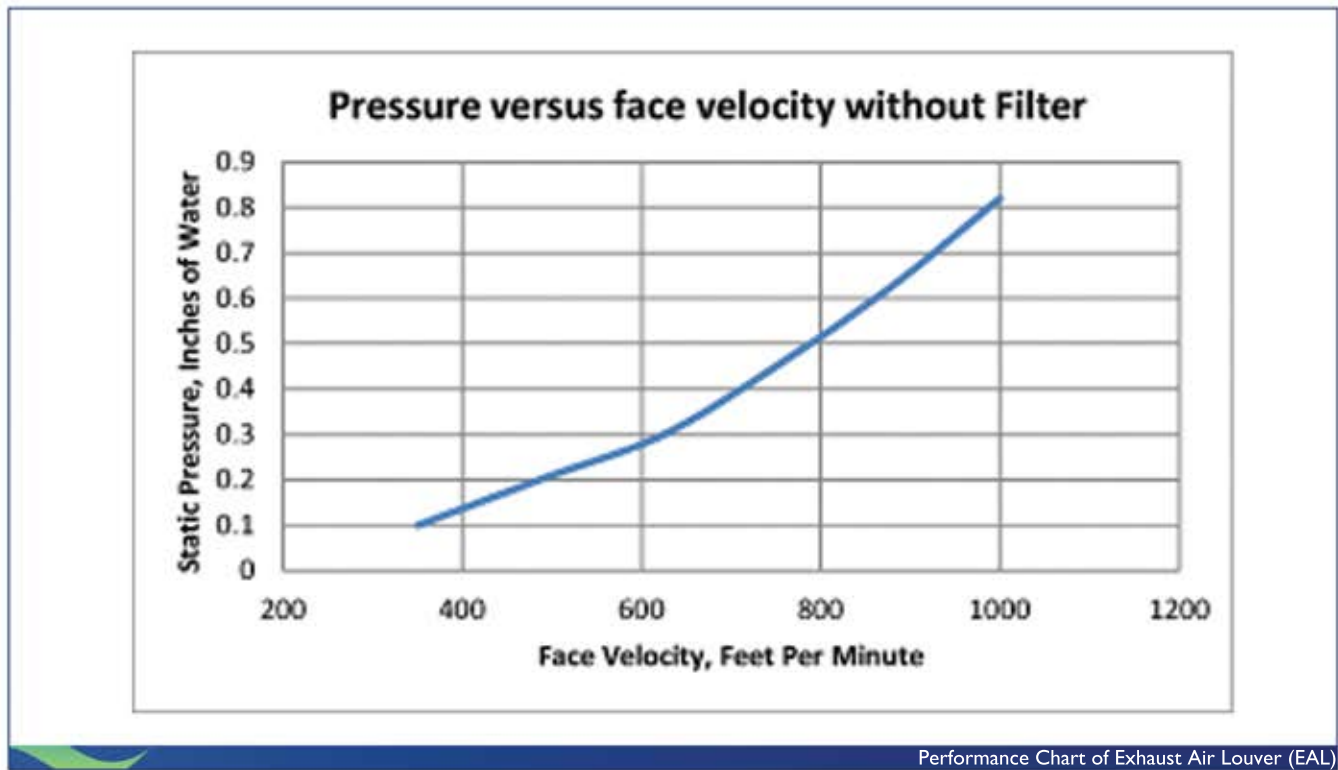
Exhaust Air Louver (EAL)



Indoor Louver (IL)

To calculate the pressure drop: - as tested in accordance with AMCA 500-L

$$\text{Face Velocity} = \text{Airflow} / \text{Area of the Louver}$$



FRESH AIR LOUVERS (FAL) & FILTER LOUVERS (FL)



Fresh Air Louver (FAL)

The Fresh Air Louver is a simple form of filter louvers. It is composed of an exhaust louver with an aluminium filter fixed at the back.

The fresh air louver with a free area of 38% is suitable for use in air inlets of fresh air ducts and air handling units. It is also suitable for use at dirty air exhaust discharge.

30mm frame as a standard. 20mm and 25mm are available, if required

An FAL (FAL-100) with an average free area above 50% is available upon request. With 100mm depth.

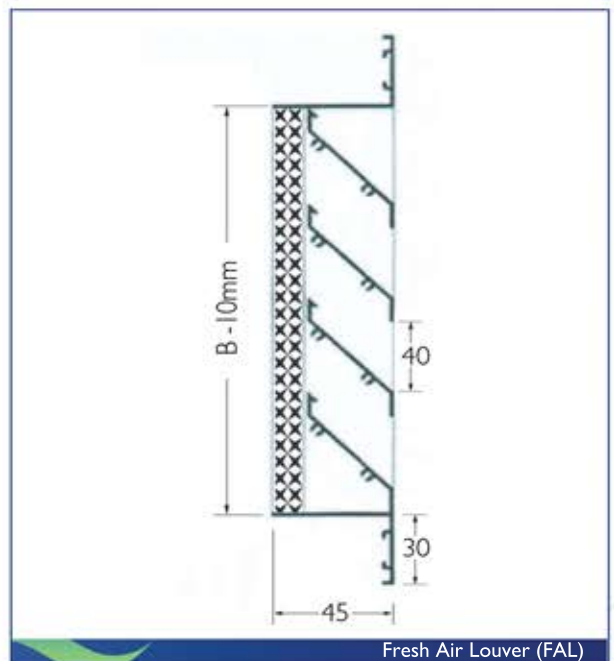
A heavy duty option (FAL-H) also is available with 2mm thick extruded Aluminium frame and blades. With 40mm frame and 50mm depth

Another option available is a Louver (IL) specifically designed for the indoor purpose.

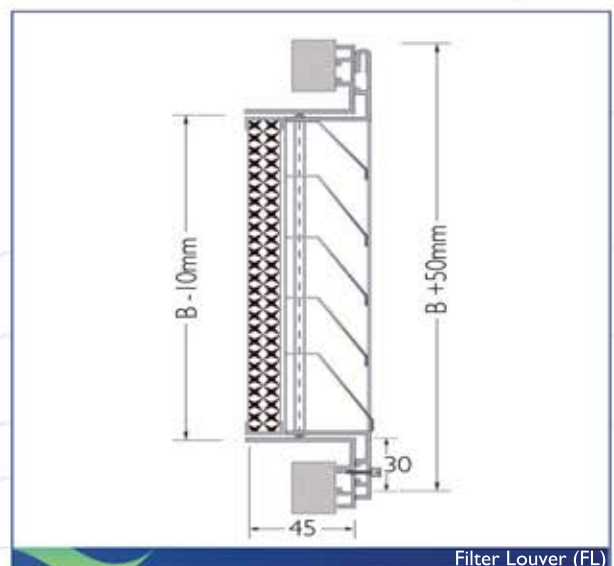
The Filter is made of washable aluminium media and is fixed on the back of grille. Filter is 25mm thick.

Also available as Filter Louver (FL) which is composed of an exhaust air louver fixed to a frame that contains a filter by means of stainless steel hinges.

30mm frame as a standard. 20mm and 25mm are available, if requested.



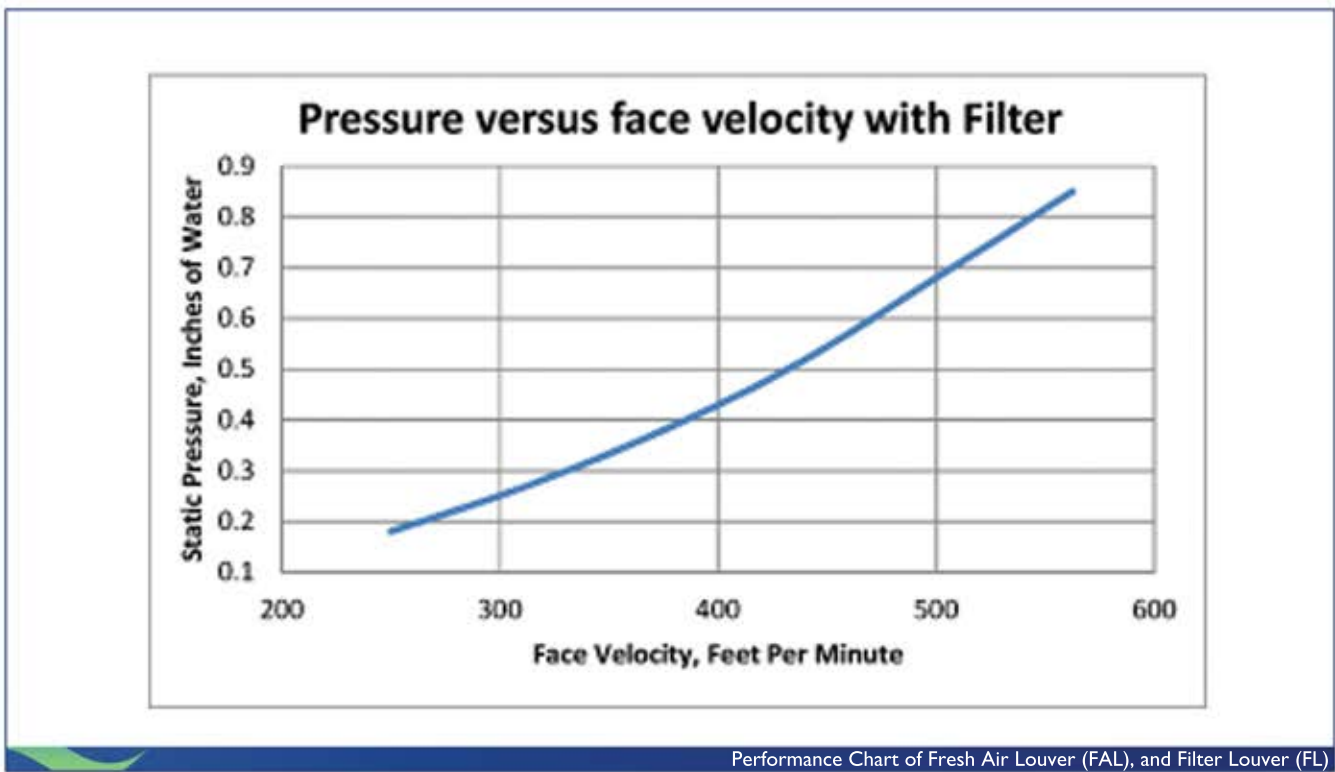
Fresh Air Louver (FAL)



Filter Louver (FL)

To calculate the pressure drop - as tested in accordance with AMCA 500-L

$$\text{Face Velocity} = \text{Airflow} / \text{Area of the Louver}$$



WALL MOUNTED SAND TRAP LOUVERS (STLW)



Wall Mounted Sand Trap Louvers (STLW)

The STL is used to lower the dust loading of conventional filtration as it is designed to separate large size sand particles at low to medium speeds. It is also fitted with a bird screen mesh made of galvanized steel to protect against undesired objects. Insect screen of stainless steel can be installed as optional.

The STL is a self emptying system, it has a set of holes at the bottom face of the casing to discharge separated sand particles.

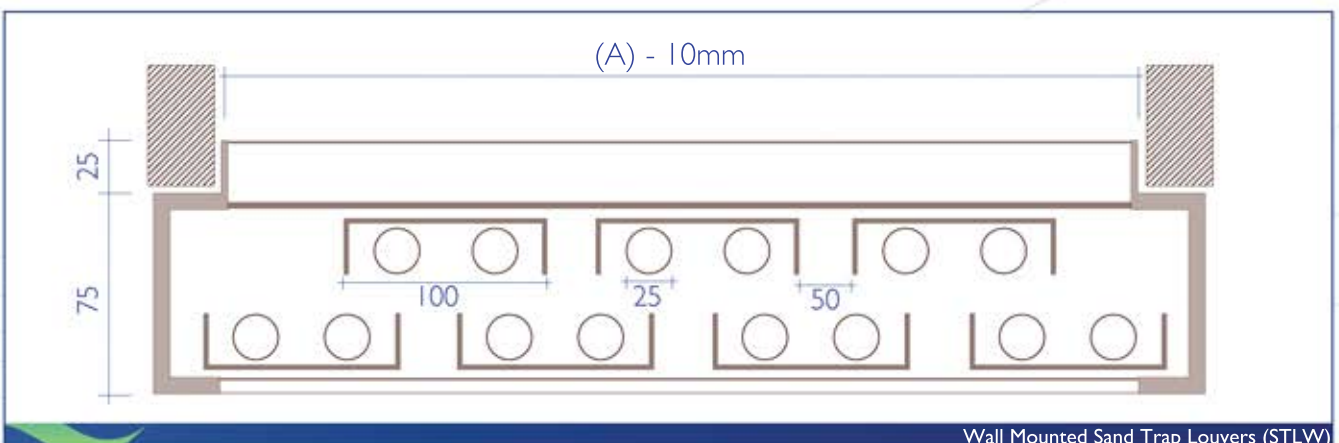
The STL is made of aluminium sections. It is composed of two sets of inverted U channels, mounted vertically on two opposite rows. Aluminium washable filter (optional) can be installed on the neck of the louver. Filter is 25mm thick.

Standard Dimensions

Any combination of A x B.

A	B
450	450
600	500
750	600
900	800
1050	1000
1200	1200
1350	
1500	
1650	
1800	
1950	

Other size B, available on request by step of 50mm.



Wall Mounted Sand Trap Louvers (STLW)

FLUSH MOUNTED SAND TRAP LOUVER (STLF)



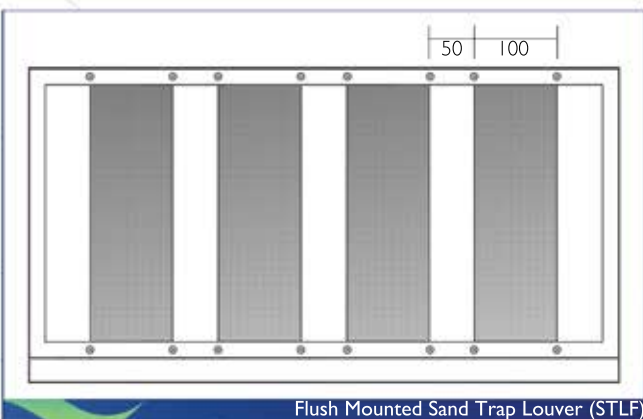
Flush Mounted Sand Trap Louver (STLF)

Description

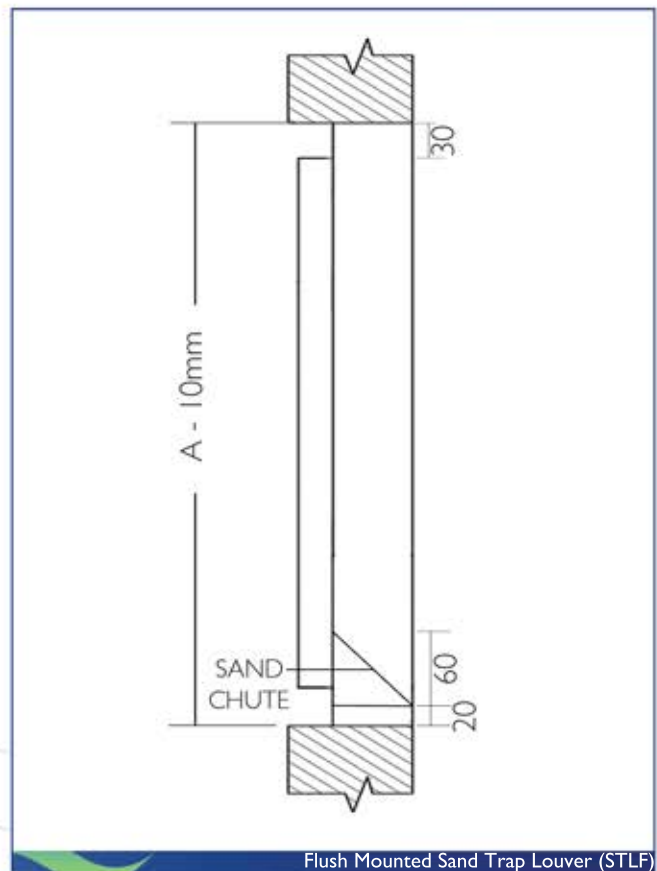
Designed to separate sand and dust from the air stream. Generally used for ventilation applications and at the inlet duct of air handling unit.

Surface of the louver is fixed flush with the plane of the wall. Composed of two sets of inverted U-channels mounted vertically in two opposite rows.

The filtered sand will be drained through a sand chute. Sand chute is an inclined tray fixed at the bottom of the louver for the purpose of draining sand.



Flush Mounted Sand Trap Louver (STLF)



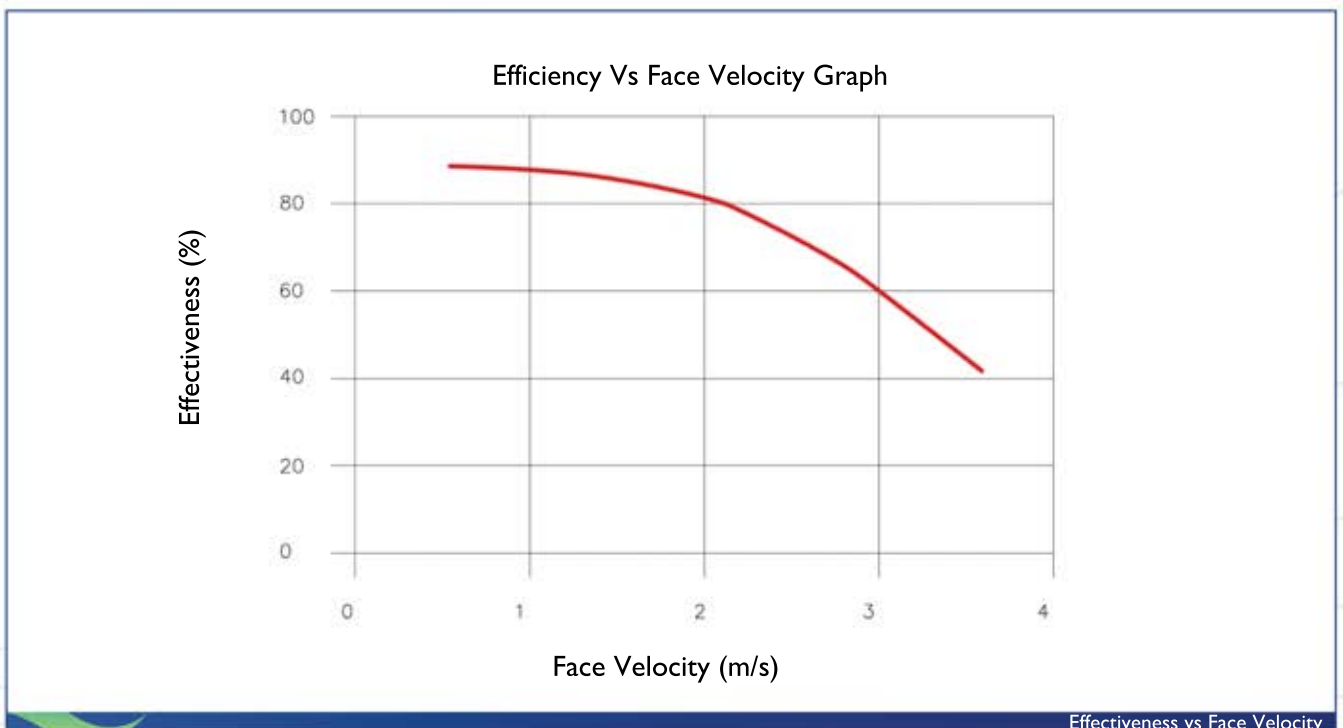
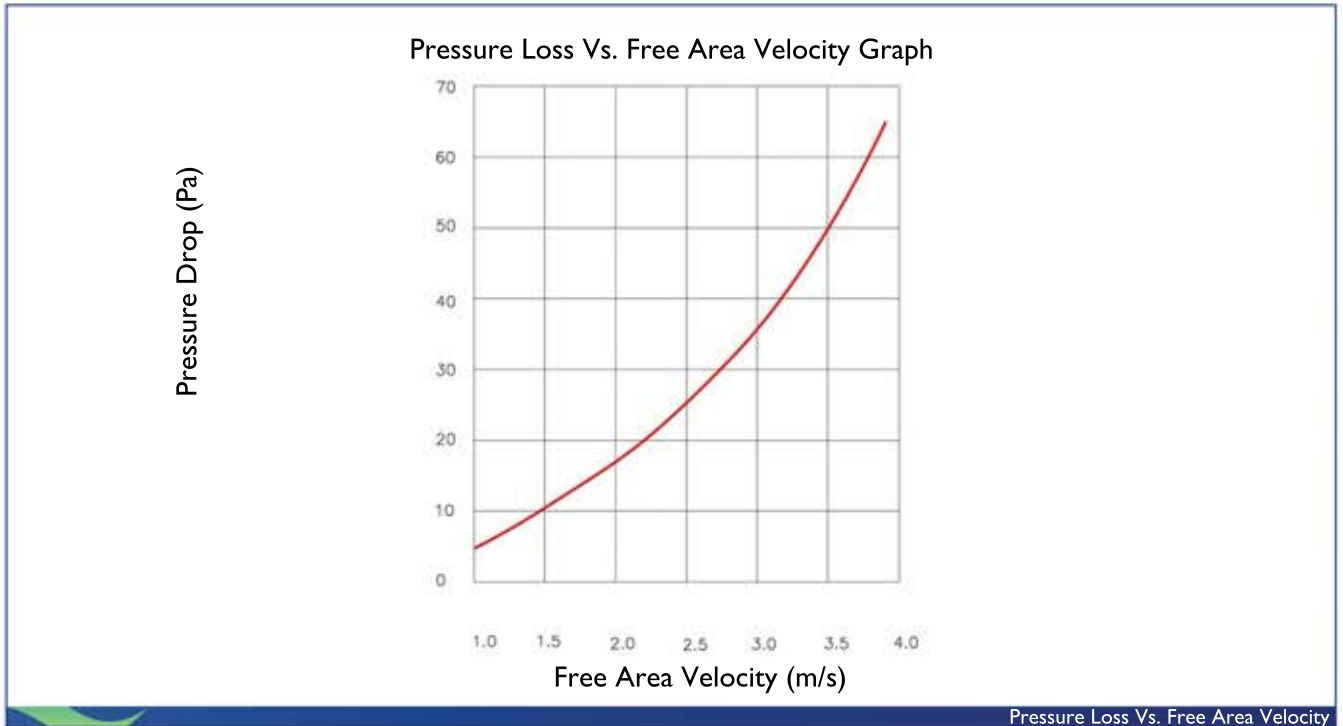
Flush Mounted Sand Trap Louver (STLF)

Tested in accordance with BS EN 13181 : 2001 at different core velocities varying from 0.5 to 3.5m/s with grade of sand ranging from 76-700 micron.

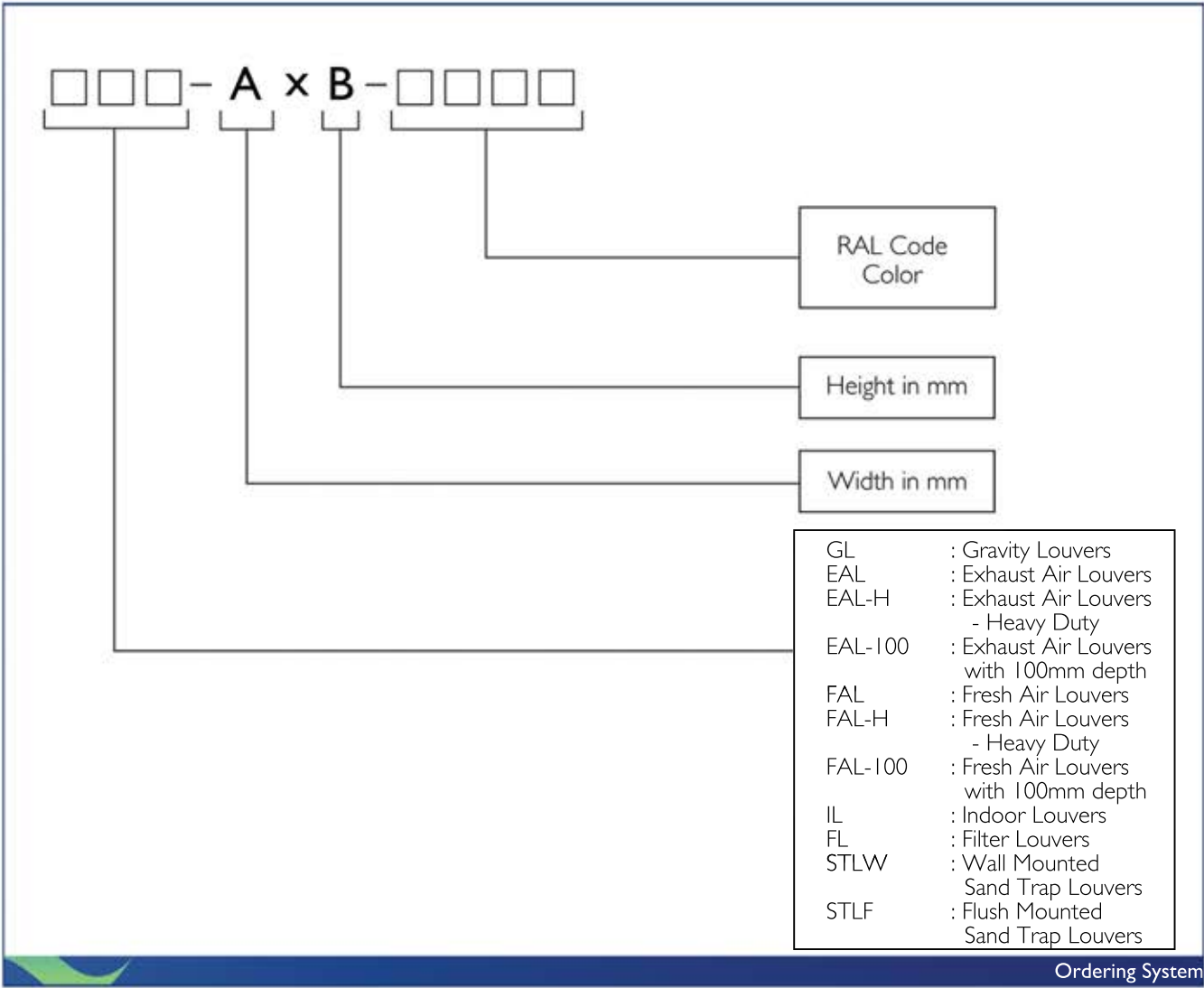
Standard Free area = 33%

Standard Finishes

- Available on RAL 9010 or 9016.
- Other powder coated color finishes are available on request.



ORDERING SYSTEM



ORDERING EXAMPLE

STL - 1200 x 600 - 9010

Stands for Sand Trap Louver, 1200mm Width x 600mm Height, powder coated to RAL 9010.