



# Sand Trap Louver



**STL B - 11 A**  
**Sand Trap Louver**

November - 2012

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*Beyond the Comfort Air ..*

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## AMCA500 - L Tested Sand Trap Louvers

**BETEC CAD** manufactures Sand Trap Louvers for fresh air intake in HVAC systems, which are designed to separate large size sand particles at low air velocities thus avoiding excessive dust loading on conventional secondary stage filters. They give excellent performance for air filtration and moderate pressure drops at low air velocities.



Standard Types and Models						
Item	Series	Blade width	Model	Material	Options	Blade
STL	B - 10	1 - 100*	A - Exposed	A*, G, S	Plain*, Filter, Filter + Damper	Square
		2 - 150	B - Duct Mounted			
			C - Flushed			
	BC - 20	1 - 100*	A - Exposed	A, G*, S	Plain*, Filter, Filter + Damper	Square
		2 - 200	B - Duct Mounted			
			C - Flushed			
	B - 30 Heavy Duty	1 - 130*	A - Exposed	A*, G, S	Plain*, Filter, Filter + Damper	Curved
		2 - 200	B - Duct Mounted			
			C - Flushed			
	B - 40 Heavy Duty	1 - 150*	A - Exposed	A*, G, S	Plain*, Filter, Filter + Damper	Square
		2 - 200	B - Duct Mounted			
			C - Flushed			

**Note \*** **BETEC** standard construction.

**S** : Stainless steel construction is for special applications like offshore works.

### Material Construction Details For STL B 10 / 20 / 30 / 40 Series

- All models of Sand Trap Louvers are available in Aluminum\*, G.I.- galvanized sheet steel coating to Z-22 to Z-27 to the standards **JIS 3302** or **BS 2989**, stainless steel to **304 2B**, **316L** in finish construction, according to the design conditions.
- The respective suffix will indicate the type of material construction. **A\*** - Aluminum, **G** - Galvanized steel sheet **S** - Stainless steel (Standard construction is **A** - Aluminum)
- **BETEC CAD** Sand Trap louver's construction confirms to **ADC 1602** standard and **DW 142** class **C**.
- Sand louvers offer effective barrier to weather and moderate pressure drop are maintained even in variable weather conditions.
- **BETEC CAD** Sand louvers are strong and rigid in construction and are suitable for both industrial and commercial applications.
- Sand trap louvers are designed to separate sand and dust particles from intake air for ventilation applications.
- Sand trap louver is provided with a self-emptying base through which the filtered sand is drained out easily.
- A Bird\* screen model S10 is fixed on the rare side of the STL in standard construction. Fly screen S3 is optional.
- **BETEC CAD** provides easily removable aluminum filter assembly of thickness 12\* / 25 / 50mm for additional fine filtration.(Optional)
- Sand louver construction reduces the risk of flooding or water pouring down the face of the louver assembly.
- Once installed the individual blades cannot be removed thereby giving excellent security properties to the louver assembly.

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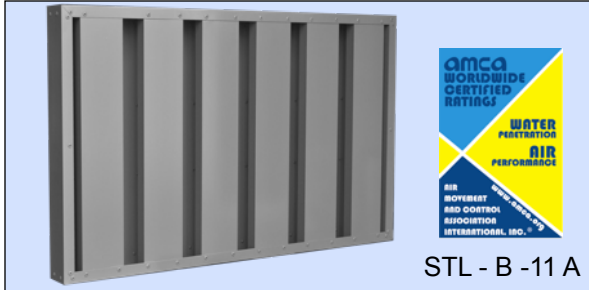


## AMCA500 - L Tested Sand Trap Louvers

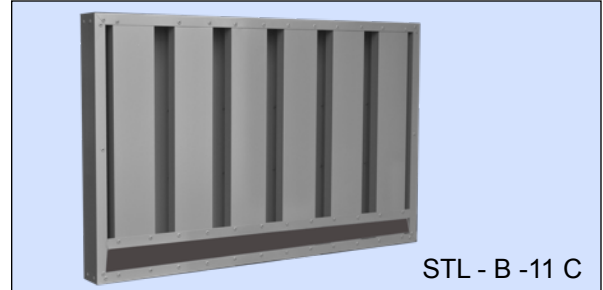
BETEC CAD manufactures a variety of models for various applications.

### B - 10 Series

1. **STL B - 11 A (AMCA500 - L Tested) / 11 B**  
Exposed type with Square Blade



2. **STL B - 11 C**  
Flushed type with Square Blade



### BC - 20 Series

1. **STL BC - 21 A / 21 B**  
Exposed type with Square Blade



2. **STL BC - 22 C (AMCA500 - L Tested)**  
Flushed type with Square Blade



### B - 30 Series Heavy Duty STL

1. **STL B - 31 A / 21 B**  
Exposed type with Curved Blades

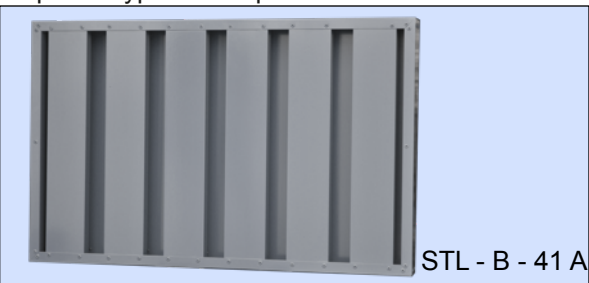


2. **STL B - 31 C**  
Flushed type with Curved Blades

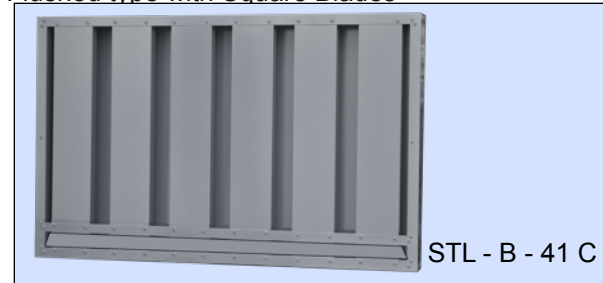


### B - 40 Series Heavy Duty STL

1. **STL B - 41 A / 21 B**  
Exposed type with Square Blades



2. **STL B - 41 C**  
Flushed type with Square Blades



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## AMCA500 - L Tested Sand Trap Louvers

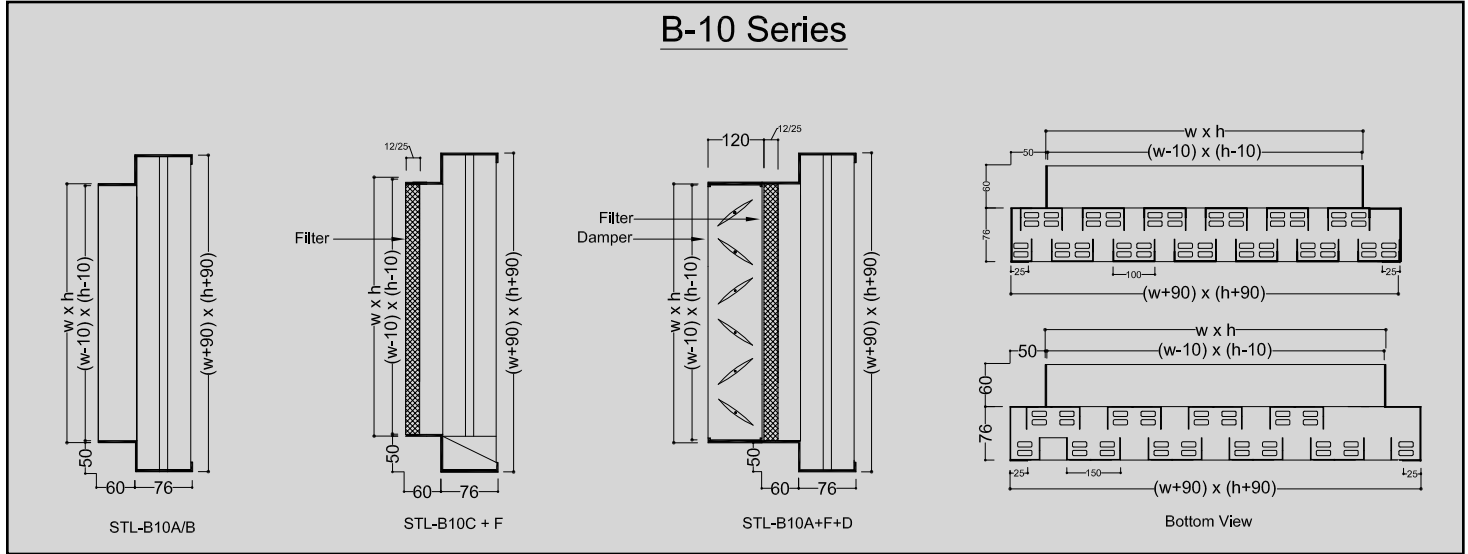
## STL - B - 11 A

Constructional Details and Dimensions For Light / Medium duty applications.  
Blade width: 1–100\*mm; 2–150mm



**A - Exposed Type ; B - Duct Mounted Type ; C - Flushed Type**

Only STL B 11 A (100 mm Blade width, Exposed type) is AMCA Certified



### BETEC CAD Standard Constructional Details

Standard Construction Aluminum\*

G.I and S.S. construction is Optional.

**A - Wall Mounted; B - Duct Mounted; C - Flush Mounted**

**Frame** : 1.2mm Extruded aluminum profile.

**Blade Material:** 1.2mm Roll formed / Extruded aluminum profile.

**Blade Orientation:** Vertical.

**Blade Type** : U shaped 100\*mm / 150mm fixed Blade.

**Screen** : G.I Steel to BSEN 10327 - DX51D+Z275, 0.4mm Thick.

**Finish** : Mill finish\*.

#### Optional Fittings.

**Filter** : 'F' 12 / 25 mm thick Aluminum media Filter is Optional.

**Damper** : 'D' Damper Assembly is Optional.  
BD - Balancing Damper / CD - Control Damper.

**Mounting** : Mounting frame angle flange is optional.

**Finish** : PVDF / Powder coated finishes to match any color.

Standard Sizes  
Any Combination of w x h

W mm	H mm
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1250	1250

**Note:** Maximum single piece Construction is 1250 x 1250mm

#### Applications :

- Sand Trap Louvers B-11 Light duty and B-12 Medium duty model construction, are suitable for the duct or wall mounting applications in **HVAC** systems, where excessive intake air filtration is required for ventilation purpose.
- Sand Trap Louvers fitted with filters and dampers are suitable for the AHU's applications for fresh air intake.

**Note \*** BETEC standard construction Tested and Certified by AMCA.



## AMCA500 - L Tested Sand Trap Louvers

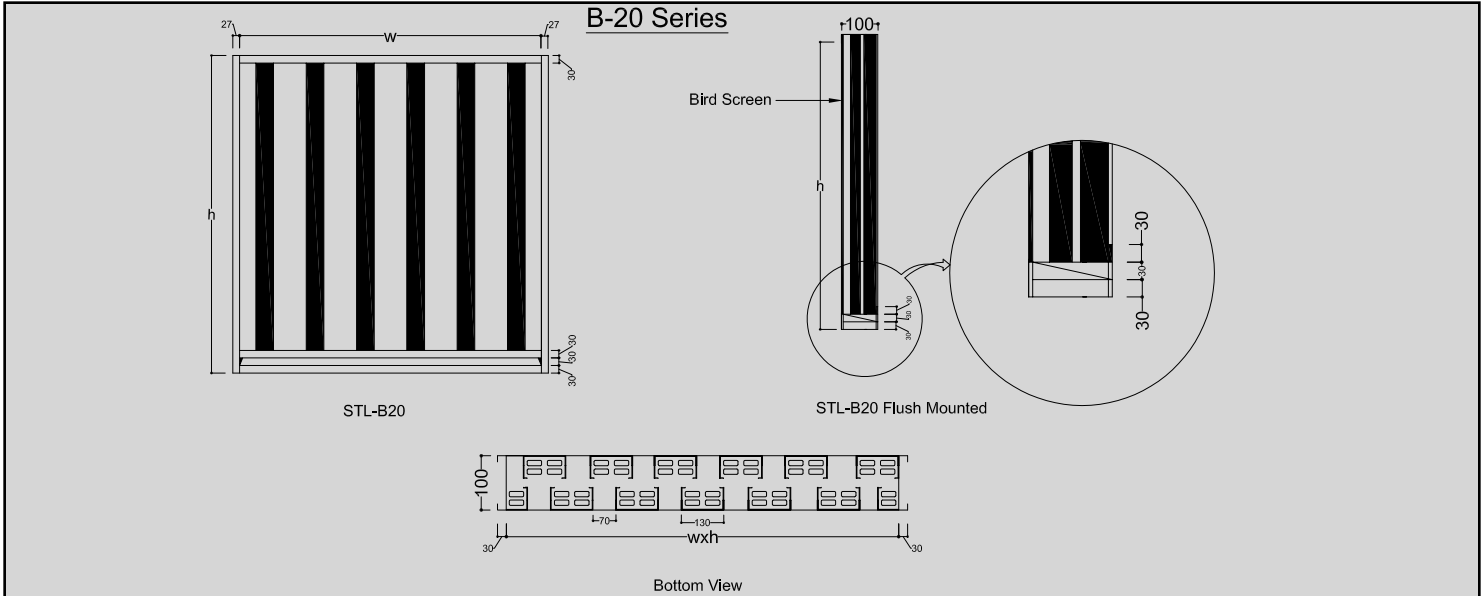
STL - BC - 22 C

Constructional Details and Dimensions For Light / Medium duty applications.  
Blade width: 1–100mm; 2–130\*mm.



**A - Exposed Type ; B - Duct Mounted Type ; C - Flushed Type**

Only STL BC 22 C (130 mm Blade width, Flush Mounted type) is AMCA Certified



### BETEC CAD Standard Constructional Details

Standard Construction Galvanized steel\*

Aluminum and S.S. construction is Optional.

**A - Wall Mounted; B - Duct Mounted; C - Flush Mounted**

**Frame** : 1.5mm Thick Roll formed Galvanized steel.

**Blade Material:** 1.2mm Roll formed Galvanized Steel Blades.

**Blade Orientation:** Vertical.

**Blade Type** : U shaped 100mm / 130\*mm fixed Blade.

**Screen** : G.I Steel to BSEN 10327 - DX51D+Z275, 0.4mm Thick.

**Finish** : Mill finish\*.

#### Optional Fittings.

**Filter** : 'F' 12 / 25 mm thick Aluminum Media Filter.

**Damper** : 'D' Damper Assembly.  
BD - Balancing Damper / CD - Control Damper.

**Mounting** : Mounting frame angle flange.

**Finish** : PVDF / Powder coated finishes to match any color.

Standard Sizes  
Any Combination of w x h

W mm	H mm
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1250	1250

**Note:** Maximum single piece Construction is 1250 x 1250mm

#### Applications :

- Sand Trap Louvers BC - 21 Light duty and BC - 22\* Heavy duty model construction, are suitable for the duct or wall mounting applications in HVAC systems, where filtered air intake is required for ventilation purpose.
- Sand Trap Louvers fitted with filters and dampers are suitable for the AHU's applications for fresh air intake.

**Note \*** BETEC standard construction Tested and Certified by AMCA.

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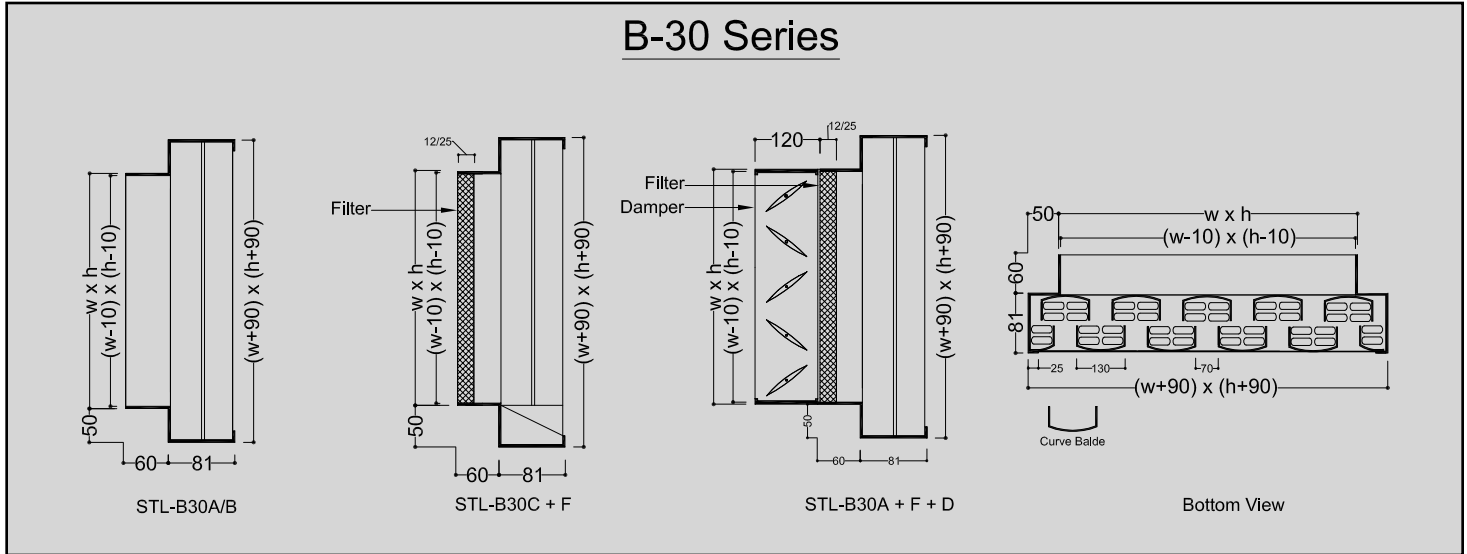


## Sand Trap Louvers

## B - 30 Series

Constructional Details and Dimensions For Heavy duty applications.  
Blade width: 1–130\*mm; 2–200mm.

A - Exposed Type ; B - Duct Mounted Type ; C - Flushed Type



### BETEC CAD Standard Constructional Details

Standard Construction Aluminum\*

G.I and S.S. construction is Optional.

**A** - Wall Mounted; **B** - Duct Mounted; **C** - Flush Mounted

**Frame** : 2mm Thick aluminum profile.

**Blade Material**: 2mm Thick aluminum curved Blades.

**Blade Orientation**: Vertical.

**Blade Type** : U shaped 130\*mm / 200mm fixed Blade.

**Screen** : G.I Steel to BSEN 10327 - DX51D+Z275, 0.4mm Thick.

**Finish** : Mill finish\*.

#### Optional Fittings.

**Filter** : 'F' 12 / 25 mm thick Aluminum Media Filter.

**Damper** : 'D' Damper Assembly.  
BD - Balancing Damper / CD - Control Damper.

**Mounting** : Mounting frame angle flange.

**Finish** : PVDF / Powder coated finishes to match any color.

Standard Sizes  
Any Combination of w x h

W mm	H mm
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1250	1250

**Note:** Maximum single piece Construction is 1250 x 1250mm

#### Applications :

- Sand Trap Louvers B - 31 and B - 32 Heavy duty model construction, are suitable for the duct or wall mounting applications in **HVAC** systems, where filtered air intake is required for ventilation purpose.
- Sand Trap Louvers fitted with filters and dampers are suitable for the AHU's applications for fresh air intake.

**Note \*** **BETEC** standard construction.

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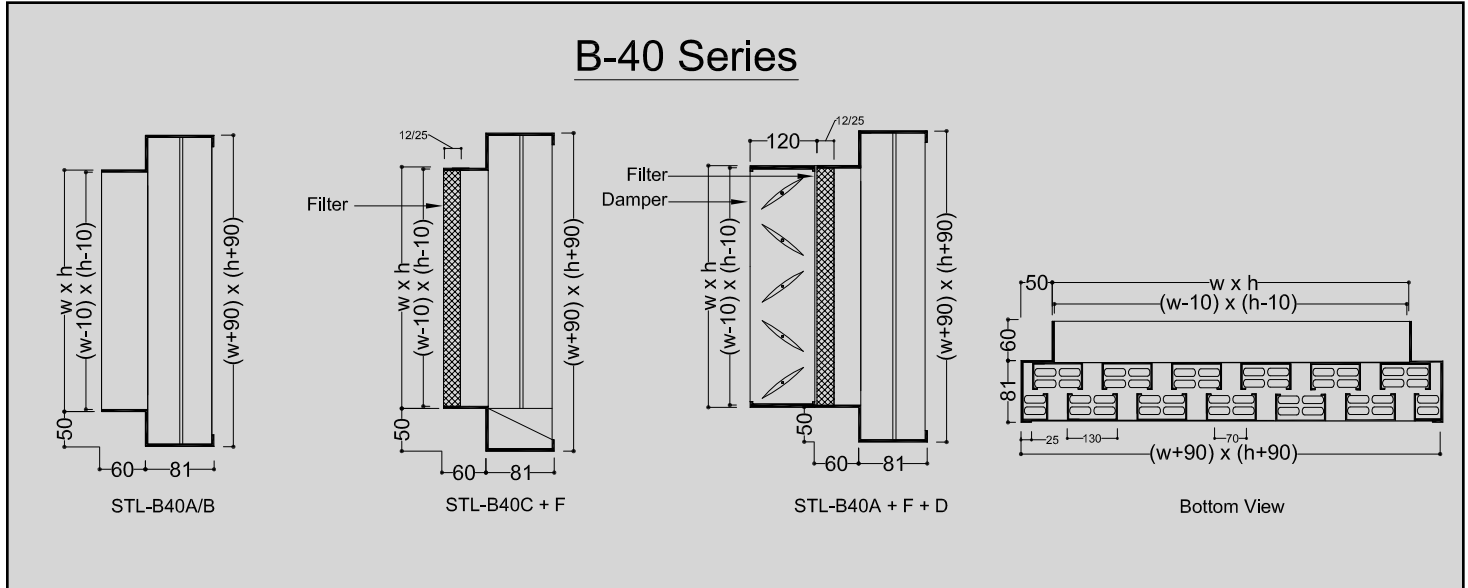


## Sand Trap Louvers

## B - 40 Series

Constructional Details and Dimensions For Heavy duty applications.  
Blade width: 1–150\*mm Blade; 2–200mm Blade.

A - Exposed Type ; B - Duct Mounted Type ; C - Flushed Type



### BETEC CAD Standard Constructional Details

Standard Construction Aluminum\*

G.I and S.S. construction is Optional.

A - Wall Mounted; B - Duct Mounted; C - Flush Mounted

**Frame** : 2mm Thick Aluminum profile.

**Blade Material:** 2mm Thick Aluminum Blades.

**Blade Orientation:** Vertical.

**Blade Type** : U shaped 150\*mm / 200mm fixed Blade.

**Screen** : G.I Steel to BSEN 10327 - DX51D+Z275, 0.4mm Thick.

**Finish** : Mill finish\*.

#### Optional Fittings.

**Filter** : 'F' 12 / 25 mm thick Aluminum Media Filter.

**Damper** : 'D' Damper Assembly.  
BD - Balancing Damper / CD - Control Damper.

**Mounting** : Mounting frame angle flange.

**Finish** : PVDF / Powder coated finishes to match any color.

Standard Sizes  
Any Combination of w x h

W mm	H mm
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1250	1250

**Note:** Maximum single piece Construction is 1250 x 1250mm

#### Applications :

- Sand Trap Louvers B - 41 and B - 42 Heavy duty model construction, are suitable for the duct or wall mounting applications in HVAC systems, where filtered air intake is required for ventilation purpose.
- Sand Trap Louvers fitted with filters and dampers are suitable for the AHU's applications for fresh air intake.

**Note \*** BETEC standard construction.

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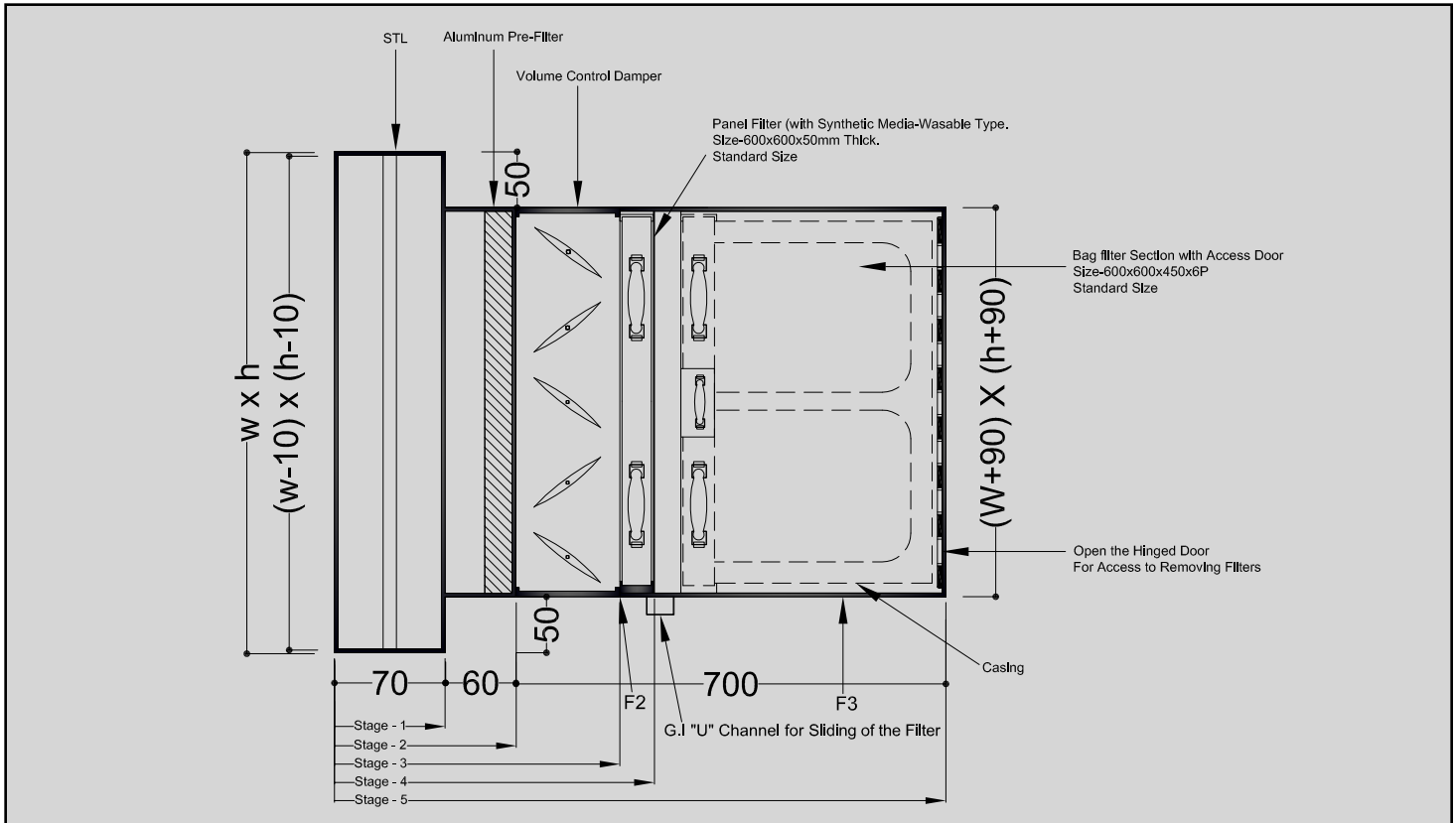




## Sand Trap Louvers

## B-10 / 20 / 30 / 40 Series

Optional Constructions - Model : STL- B 10 / 20 / 30 / 40 +F1+D+F2+F3



Model : STL- B 10 / 20 / 30 / 40 +F1+D+F2+F3

Sand Filtration Efficiency at different stages at  $V_f = 1 \text{ mt./sec.}$  face velocity  
For STL with Multiple Assembly Construction.

Stage	Sand Practicals Microns	% Efficiency
Stage 1	150 - 700	60 - 75%
Stage 2	75 - 150	75%
Stage 3	75 - 150	75%
Stage 4	25 - 100	90%
Stage 5	10 - 50	96%

Note : Stage 3 will not effect filtration of sand particles & Efficiency.

Note: Typical efficiency performance is observed and recorded with practical tests done on various sites.  
By **BETEC CAD**.

Overall Pressure Drop  $\Delta P_t$  of the complete system is noted 80 - 100 Pa. ( At  $V_f = 1 \text{ mt./sec.}$  )

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## Engineering and Performance Data

## B - 10 / 20 / 30 / 40 Series

The tabulated performance data includes Air volume  $Q_v$ , Effective pressure area  $A_k$ , Total pressure drops and corresponding Face velocities.

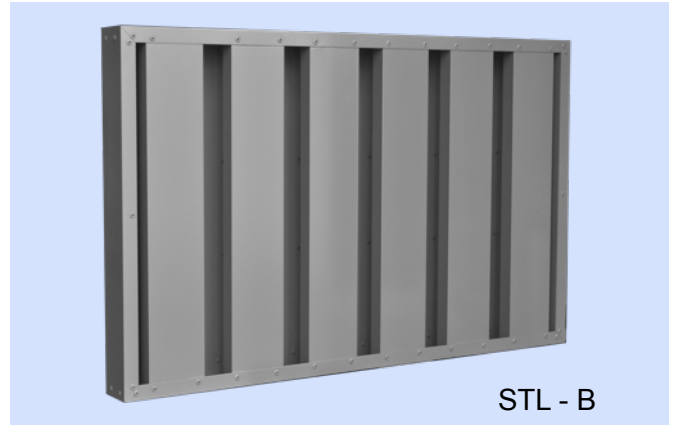
**Air volume  $Q_v$**  : Air volumes are given in  $mt^3/ sec$ .

**Face velocity  $V_f$**  : The effective face velocities  $V_f$  given are related to the corresponding air volume  $Q_v$  and effective face area  $A_f$  for the corresponding sizes.

**Passage velocity  $V_k$**  : The effective passage velocity  $V_k$  given all related air volume  $Q_v$  and effective free area  $A_k$  for the corresponding face areas.

**Effective Pressure Area  $A_k$**  : Outlet sizes are given in the following table, within a tolerance of  $\pm 5\%$ , Are related to the corresponding effective pressure areas  $A_k$  in  $mt^2$  for the corresponding size.

**Total pressure drop  $\Delta P_t$**  : The pressure drops given in the graph are related to the corresponding face velocities  $V_k$   $mt / sec$ .



**Performance Notes:** Pressure given in Pa,  $\Delta P_t$  (Pa) indicated in the table is the total pressure drop, the difference in total pressure from face inlet to discharge side of the STL. Test data obtained in accordance with ARI Standards 880-94, and ADC 1062 : GRD 84.

### Pressure drops, % Efficiency v/s Face velocity $mt/sec$ .

**Example :** Selection by simple calculation :-

Given  $Q_v = 8600 \text{ } mt^3 / hr = 2.38 \text{ } mt^3/sec$

Formula  $Q_v = V_f \times A_f = V_k \times A_k$

**From graph:**  $V_f = 1 \text{ } mt/sec$  the corresponding

$\Delta P_t =$  Refer the graph.

Pa (for STL B10 Series)

$A_f = \frac{Q_v}{V_f} = \frac{2.38}{1} = 2.38 \text{ } mt^2$  face area

## Sand Trap Louvers

## B-10 Series

### Engineering and Performance Data Selection tables

Free area Ak in mt<sup>2</sup> For Model STL B - 11 A AMCA500 - L Tested.

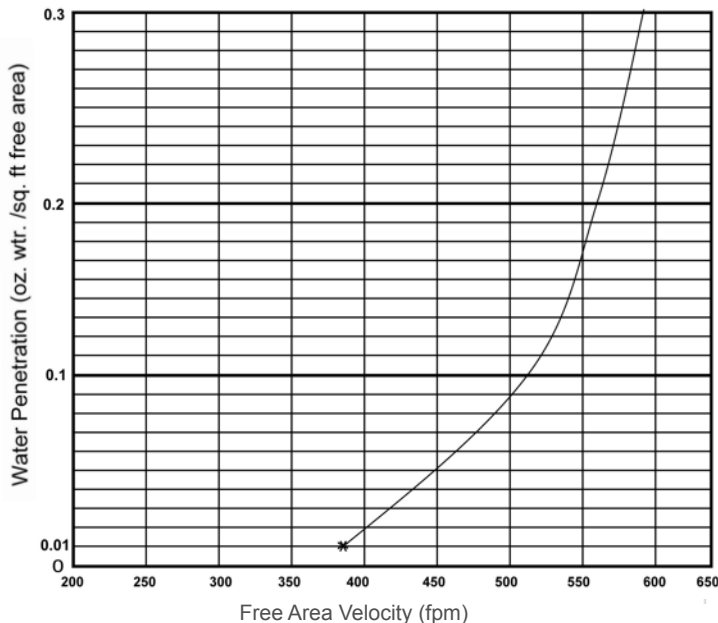
W / H	12" (300)	18" (450)	24" (600)	30" (750)	36" (900)	42" (1050)	48" (1200)	60" (1500)	72" (1800)	84" (2100)	96" (2400)
12" (300)	0.077 0.007	0.154 0.014	0.231 0.021	0.309 0.029	0.386 0.036	0.463 0.043	0.541 0.050	0.695 0.065	0.85 0.079	1.005 0.093	1.159 0.108
18" (450)	0.154 0.014	0.309 0.029	0.465 0.043	0.620 0.058	0.776 0.072	0.932 0.087	1.087 0.101	1.398 0.130	1.709 0.159	2.02 0.188	2.331 0.217
24" (600)	0.231 0.021	0.465 0.043	0.699 0.065	0.932 0.087	1.166 0.108	1.4 0.130	1.633 0.152	2.101 0.195	2.568 0.239	3.036 0.282	3.503 0.326
30" (750)	0.309 0.029	0.620 0.058	0.932 0.087	1.244 0.116	1.556 0.145	1.868 0.174	2.18 0.203	2.804 0.261	3.427 0.319	4.051 0.376	4.675 0.434
36" (900)	0.386 0.036	0.776 0.072	1.166 0.108	1.556 0.145	1.946 0.181	2.336 0.217	2.726 0.253	3.506 0.326	4.286 0.398	5.066 0.471	5.846 0.543
42" (1050)	0.463 0.043	0.932 0.087	1.400 0.130	1.868 0.174	2.336 0.217	2.804 0.261	3.273 0.304	4.209 0.391	5.145 0.478	6.082 0.565	7.018 0.652
48" (1200)	0.541 0.050	1.087 0.101	1.633 0.152	2.180 0.203	2.726 0.253	3.273 0.304	3.819 0.355	4.912 0.456	6.004 0.558	7.097 0.660	8.19 0.761
60" (1500)	0.695 0.065	1.398 0.130	2.101 0.195	2.804 0.261	3.506 0.326	4.209 0.391	4.912 0.456	6.317 0.587	7.723 0.718	9.128 0.848	10.533 0.979
72" (1800)	0.85 0.079	1.709 0.159	2.568 0.239	3.427 0.319	4.286 0.398	5.145 0.478	6.004 0.558	7.723 0.718	9.441 0.877	11.159 1.037	12.877 1.197
84" (2100)	1.005 0.093	2.020 0.188	3.036 0.282	4.051 0.376	5.066 0.471	6.082 0.565	7.097 0.660	9.128 0.848	11.159 1.037	13.19 1.226	15.22 1.415
96" (2400)	1.159 0.108	2.331 0.217	3.503 0.326	4.675 0.434	5.846 0.543	7.018 0.652	8.19 0.761	10.533 0.979	12.877 1.197	15.22 1.415	17.546 1.632

Note: Units given in the ( ) are mm, rounded to zero for manufacturing convenience.  
1220 x 1220 mm Louver free area 0.335 Sq.M.

### Sand Rejection Efficiency (Not AMCA Certified)

Description	STL		STL+F1		STL+F1+D+F2+F3	
Face Velocity	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s
Practical Size	150 - 700	150 - 700	75 - 150	75 - 150	10 - 100	10 - 100
% Efficiency	80-85%	60-75%	90%	75%	98%	96%

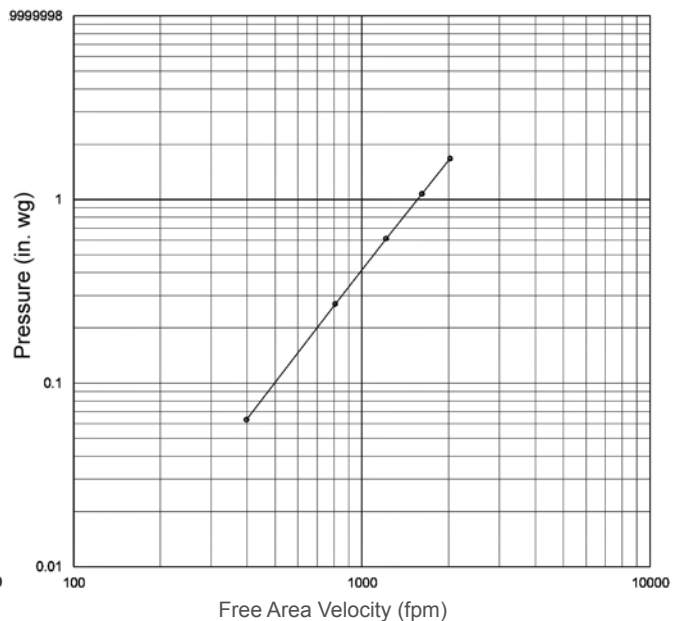
Models : STL B - 11 A Pressure Drop V/S Face Velocity Graph. as per AMCA500 - L



AMCA Standard 500-L Water Penetration Test (15 minutes Test Duration)

Figure 5.6 Setup for Size: 48" x 48"

The Beginning point of water penetration is 375 fpm.



AMCA Standard 500-L Intake Test

Figure 5.5 Setup for Size: 48" x 48"

Data is corrected to standard air density.

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## Sand Trap Louvers

## BC - 20 Series

### Engineering and Performance Data

#### Selection tables

Free area Ak in m<sup>2</sup> For Model STL BC - 22 C A MCA500 - L Tested.

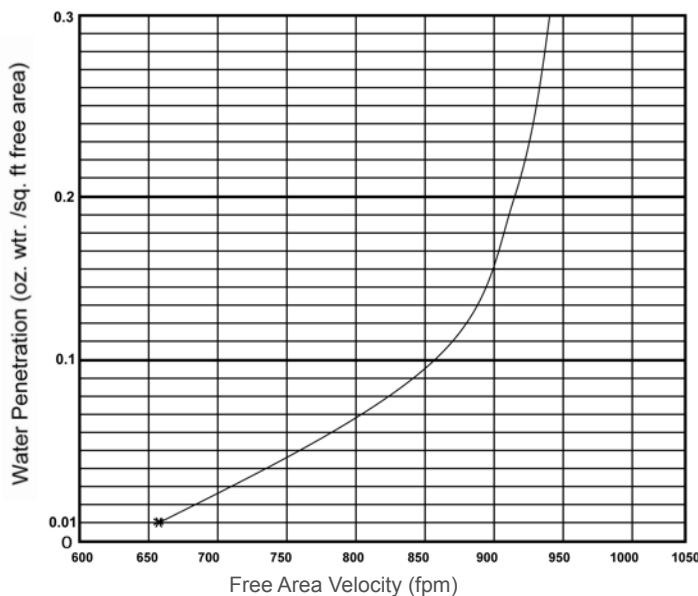
W / H	12" (300)	18" (450)	24" (600)	30" (750)	36" (900)	42" (1050)	48" (1200)	60" (1500)	72" (1800)	84" (2100)	96" (2400)
12" (300)	0.075 0.007	0.141 0.013	0.206 0.019	0.272 0.025	0.337 0.031	0.403 0.037	0.468 0.044	0.599 0.056	0.73 0.068	0.861 0.080	0.992 0.092
18" (450)	0.141 0.013	0.263 0.024	0.385 0.036	0.507 0.047	0.63 0.059	0.752 0.070	0.874 0.081	1.118 0.104	1.363 0.127	1.607 0.149	1.851 0.172
24" (600)	0.206 0.019	0.385 0.036	0.564 0.052	0.743 0.069	0.922 0.086	1.101 0.102	1.28 0.119	1.638 0.152	1.995 0.185	2.353 0.219	2.711 0.252
30" (750)	0.272 0.025	0.507 0.047	0.743 0.069	0.979 0.091	1.214 0.113	1.45 0.135	1.686 0.157	2.157 0.200	2.628 0.244	3.099 0.288	3.571 0.332
36" (900)	0.337 0.031	0.63 0.059	0.922 0.086	1.214 0.113	1.507 0.140	1.799 0.167	2.091 0.194	2.616 0.249	3.261 0.303	3.846 0.357	4.43 0.412
42" (1050)	0.403 0.037	0.752 0.070	1.101 0.102	1.45 0.135	1.799 0.167	2.148 0.200	2.497 0.232	3.195 0.297	3.894 0.362	4.59 0.427	5.29 0.492
48" (1200)	0.468 0.044	0.874 0.081	1.28 0.119	1.686 0.157	2.091 0.194	2.497 0.232	2.903 0.268	3.715 0.345	4.526 0.421	5.338 0.496	6.15 0.572
60" (1500)	0.599 0.066	1.118 0.104	1.638 0.152	2.157 0.200	2.676 0.249	3.195 0.297	3.715 0.345	4.753 0.442	5.792 0.538	6.83 0.635	7.869 0.731
72" (1800)	0.73 0.068	1.363 0.127	1.995 0.185	2.628 0.244	3.261 0.303	3.894 0.362	4.526 0.421	5.792 0.538	7.057 0.656	8.323 0.773	9.588 0.891
84" (2100)	0.861 0.080	1.607 0.149	2.353 0.219	3.099 0.288	3.846 0.357	4.592 0.427	5.338 0.496	6.83 0.635	8.323 0.773	9.815 0.912	11.307 1.051
96" (2400)	0.992 0.092	1.851 0.172	2.711 0.252	3.571 0.332	4.43 0.412	5.29 0.492	6.15 0.572	7.869 0.731	9.588 0.891	11.307 1.051	13.027 1.211

Note: Units given in the ( ) are mm, rounded to zero for manufacturing convenience.  
1220 x 1220 mm Louver free area 0.268 Sq.M.

#### Sand Rejection Efficiency (Not AMCA Certified)

Description	STL		STL+F1		STL+F1+D+F2+F3	
	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s
Face Velocity	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s
Practical Size	150 - 700	150 - 7 00	75 - 150	75 - 150	10 - 100	10 - 100
% Efficiency	80-85%	60-75%	90%	75%	98%	96%

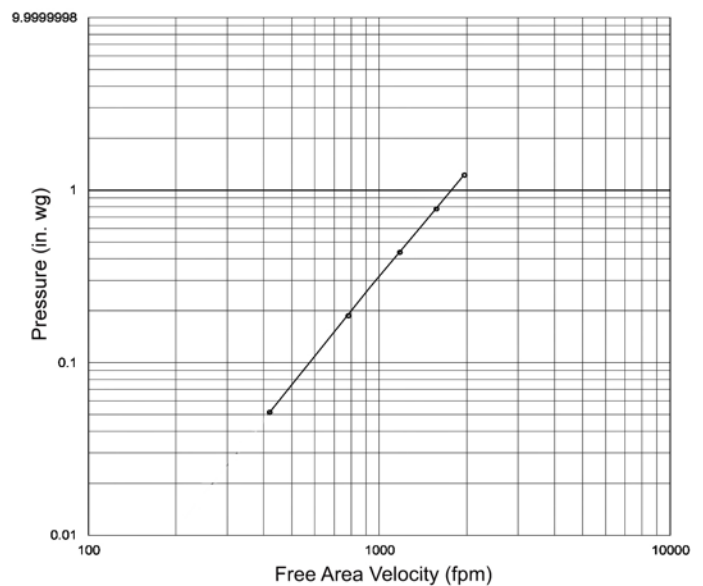
#### Models : STL BC - 22 C Pressure Drop V/S Face Velocity Graph. as per AMCA500 - L .



AMCA Standard 500-L Water Penetration Test (15 minutes Test Duration)

Figure 5.6 Setup for Size: 48" x 48"

The Beginning point of water penetration is 656 fpm.



AMCA Standard 500-L Intake Test

Figure 5.5 Setup for Size: 48" x 48"

Data is corrected to standard air density.

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.



## Sand Trap Louvers

**B - 30 Series**

### Engineering and Performance Data

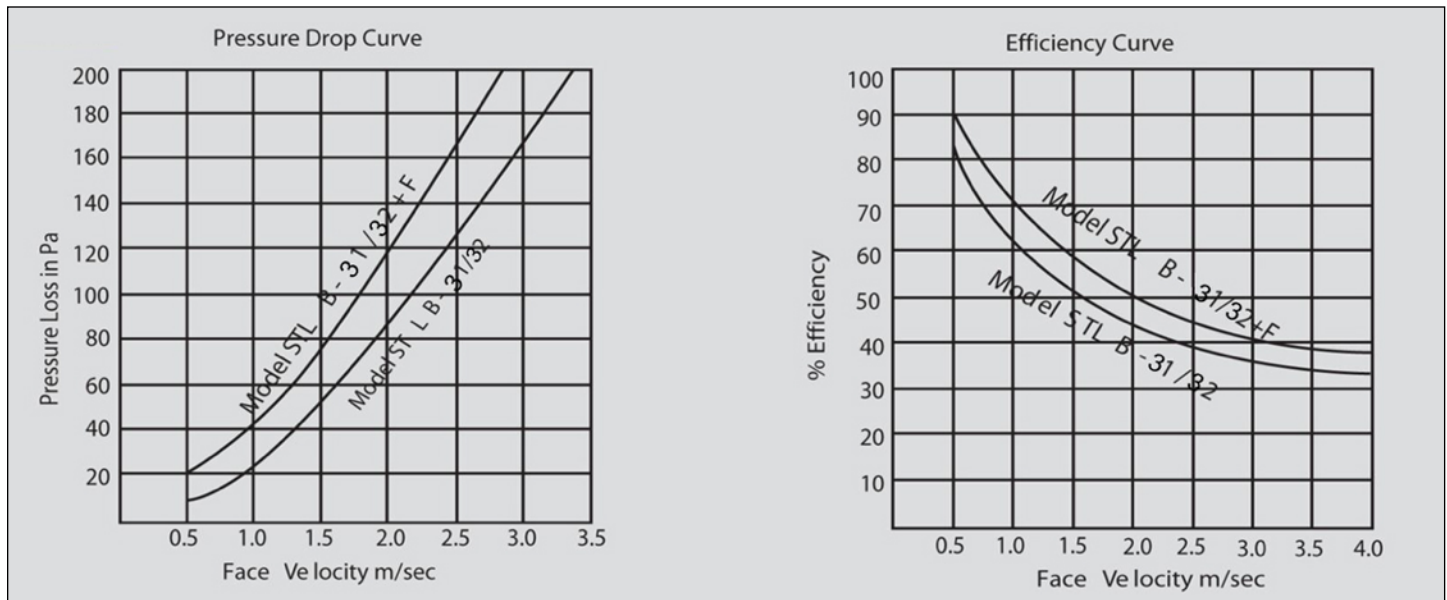
#### Selection tables

**Effective pressure areas Ak in m<sup>2</sup> For Model STL B 30 Series standard construction.**

W X H mm	300	450	600	750	900	1050	1200	1350	1500
300	0.045	0.068	0.090	0.113	0.135	0.158	0.176	0.198	0.221
450	0.068	0.101	0.135	0.169	0.203	0.236	0.265	0.298	0.331
600	0.090	0.135	0.180	0.225	0.270	0.315	0.353	0.397	0.441
750	0.113	0.169	0.225	0.281	0.338	0.394	0.441	0.496	0.551
900	0.135	0.203	0.270	0.338	0.405	0.473	0.529	0.595	0.662
1050	0.158	0.236	0.315	0.394	0.473	0.551	0.617	0.695	0.772
1200	0.176	0.265	0.353	0.441	0.529	0.617	0.706	0.794	0.882
1350	0.198	0.298	0.397	0.496	0.595	0.695	0.794	0.893	0.992
1500	0.221	0.331	0.441	0.551	0.662	0.772	0.882	0.992	1.103

#### Sand Rejection Efficiency

Description	STL		STL+F1		STL+F1+D+F2+F3	
Face Velocity	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s
Practical Size	150 - 700	150 - 7 00	75 - 150	75 - 150	10 - 100	10 - 100
% Efficiency	80-85%	60-75%	90%	75%	98%	96%

**Models : STL - B 30 Series Pressure Drop V/S Face Velocity Graph.**


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## Sand Trap Louvers

**B - 40 Series**

### Engineering and Performance Data

#### Selection tables

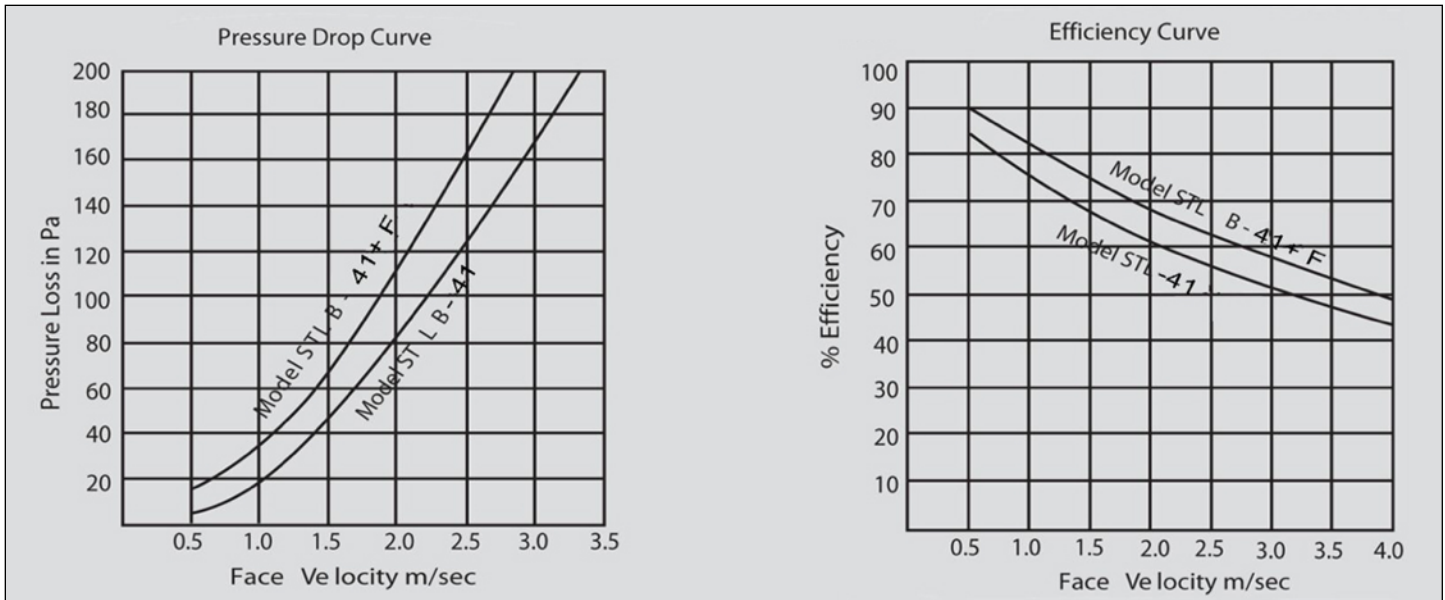
**Effective pressure areas Ak in  $mt^2$  For Model STL B 40 Series standard construction.**

W X H mm	300	450	600	750	900	1050	1200	1350	1500
300	0.045	0.068	0.090	0.113	0.135	0.158	0.176	0.198	0.221
450	0.068	0.101	0.135	0.169	0.203	0.236	0.265	0.298	0.331
600	0.090	0.135	0.180	0.225	0.270	0.315	0.353	0.397	0.441
750	0.113	0.169	0.225	0.281	0.338	0.394	0.441	0.496	0.551
900	0.135	0.203	0.270	0.338	0.405	0.473	0.529	0.595	0.662
1050	0.158	0.236	0.315	0.394	0.473	0.551	0.617	0.695	0.772
1200	0.176	0.265	0.353	0.441	0.529	0.617	0.706	0.794	0.882
1350	0.198	0.298	0.397	0.496	0.595	0.695	0.794	0.893	0.992
1500	0.221	0.331	0.441	0.551	0.662	0.772	0.882	0.992	1.103

#### Sand Rejection Efficiency

Description	STL		STL+F1		STL+F1+D+F2+F3	
Face Velocity	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s	0.5Mt/s	1.0Mt/s
Practical Size	150 - 700	150 - 7 00	75 - 150	75 - 150	10 - 100	10 - 100
% Efficiency	80-85%	60-75%	90%	75%	98%	96%

#### Models : STL - B 40 Series Pressure Drop V/S Face Velocity Graph.



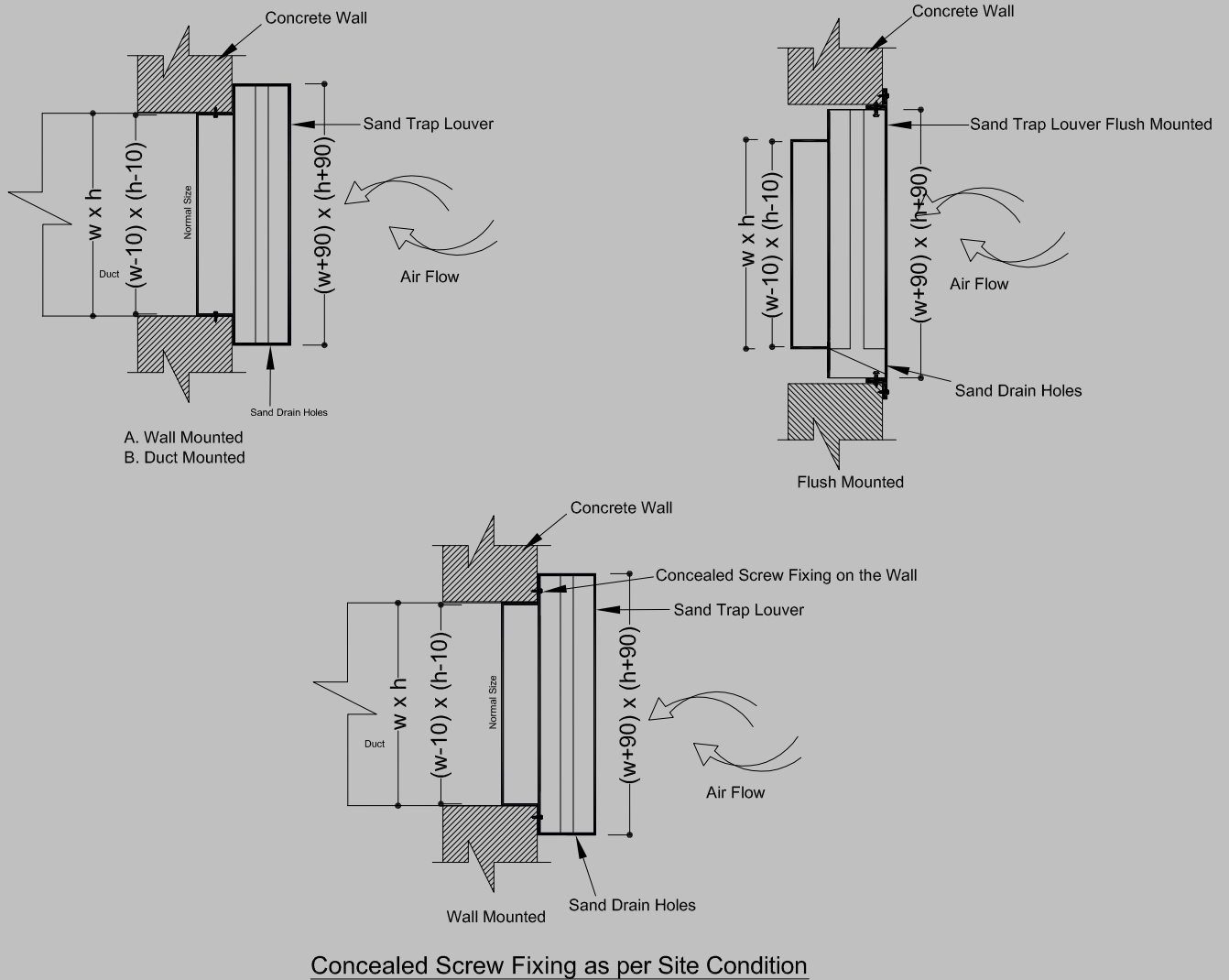
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**Installation Details**

Installation Drawing of Sand Trap Louver



**Note:**  
 Fixing Details - Standard supply Concealed type Screw Fixing  
 Recommended for sidewall applications

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