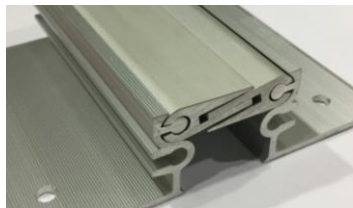
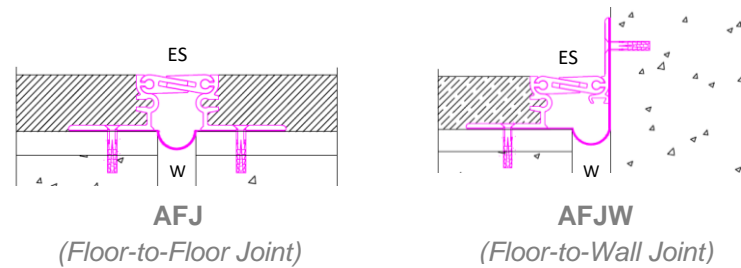


Flush Alloy Metal Profile

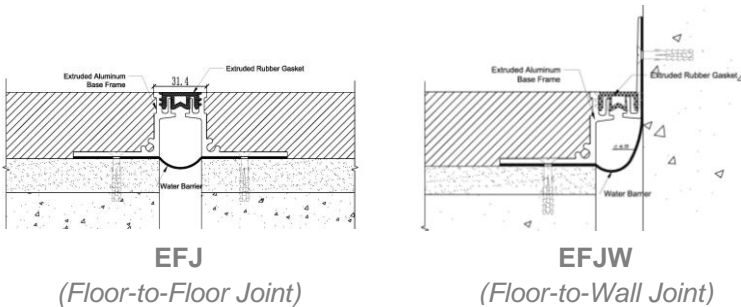
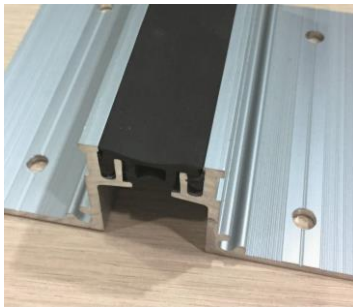


Capable of Lateral Movement
and idea for link-bridge and
settlement movement
application



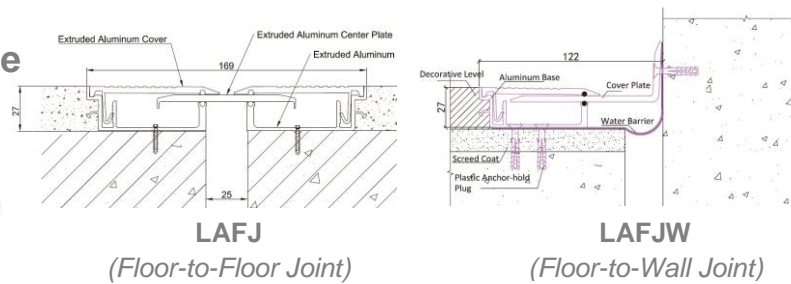
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
AFJ / AFJW	25	53	15	7 - 10
AFJ / AFJW	50	77	20	7 - 10

Flush EPDM Profile



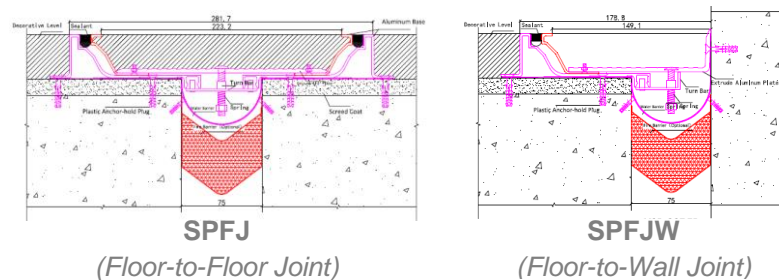
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
EFJ / EFJW	25	31 / 29	12	N/A
EFJ / EFJW	50	47 / 48	25	N/A

Flush Lock Alloy Profile



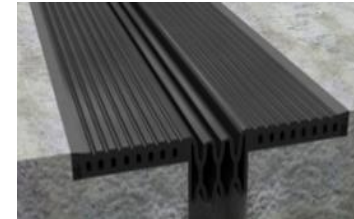
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
LAFJ / LAFJW	25	168 / 142	79 / 52	N/A
LAFJ / LAFJW	50	193 / 142	108 / 54	N/A

Flush Seismic Pan Profile

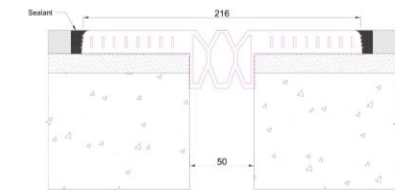


MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
SPFJ / SPFJW	25	31 / 29	12	N/A
SPFJ / SPFJW	50	47 / 48	25	N/A

Heavy-Duty EPDM Profile

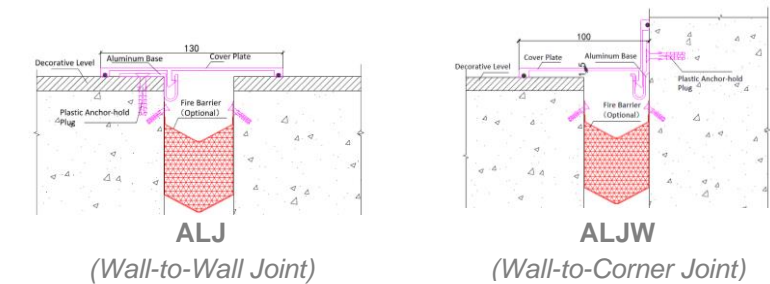


Trafficable profile for car park
and settlement movement
application



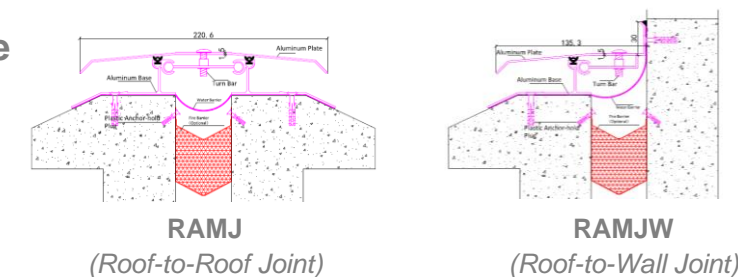
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
EPHD	50	216	50	≤ 10

Lock Alloy Profile



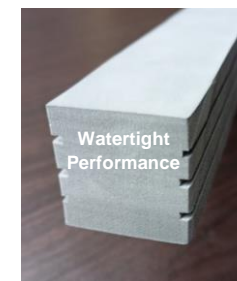
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
ALJ / ALJW	25	150 / 100	130 / 80	N/A
ALJ / ALJW	50	200 / 145	180 / 130	N/A

Alloy Metal Roof Profile



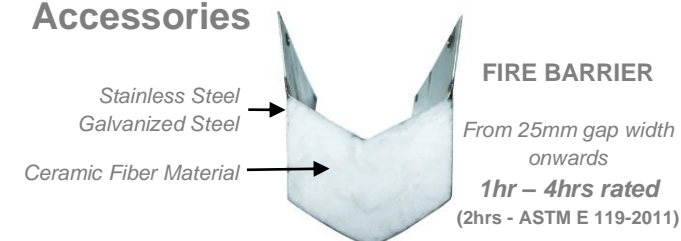
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
RAMJ / RAMJW	50	230 / 205	140 / 70	N/A
RAMJ / RAMJW	75	255 / 165	165 / 95	N/A

CELFOAM Profile



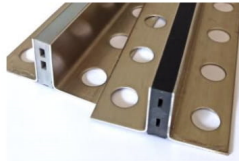
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
CELFOAM 25	25	25	13	≤ 2
CELFOAM 50	50	50	25	≤ 2

Accessories



MOVEMENT JOINT SYSTEM

MJSS



INTERNATIONAL STANDARD

Recommended Bay Sizes:

Internal 8.0m – 10.0m

External 4.5m – 6.0m

In accordance with BS 5385: Part 3 - 1989, (clause 19 to 23) that requires joints at all perimeters of the tiled area, coincidental with existing structural movement joints in the substrate and across large floor areas at 8 to 10m intervals. Neoprene thickness minimum 6mm for internal cover area, 1.6mm increased for indoor temperature 10°C changed (TCNA standard).

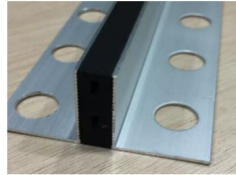
Profile Design & Technical Specification:

- Stainless Steel 316 / 304 grade
- Movement joint designed bedded into adhesive and under tiles. Each site plate is punched to allow positive key with adhesive.
- Neoprene is resistance to most chemicals and detergents generally used in tiled application.

MJAL

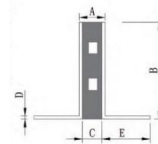
Profile Design & Technical Specification:

- Extruded Aluminium Alloy 6063-T5
- Reduce polish pad damage with smooth edge design
- Rigid "L-Angle" extrusion for better performance



MODEL	Dimension (mm)				
	A	B	C	D	E
MJSS	10	23/25	8	1	25
MJAL	11.2 (±)	18/25	8	1.59	25

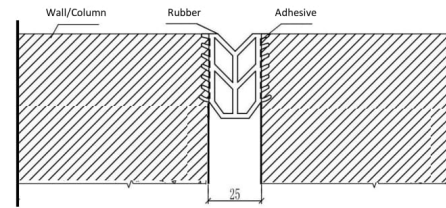
Custom make for other size is available



InstantFix EXPANSION JOINT

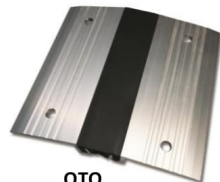


EPLD

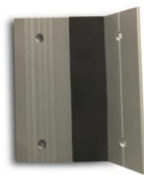


(Wall-to-Wall / Column-to-Column Joint)

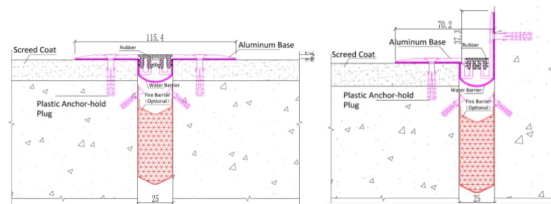
MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
EPLD	25	25	12 (Min) 37 (Max)	≤ 2
EPLD	50	50	25 (Min) 76 (Max)	≤ 2



QTO



LTO



QTO

LTO

(Floor-to-Floor Joint)

(Floor-to-Wall Joint)

MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
QTO / LTO	25	115 / 70	12 / 12	≤ 2
QTO / LTO	50	140 / 95	25 / 25	≤ 2

PRODUCT TESTED BY



Rubber Tensile Strength by SGS

ASTM D412

Rubber Tear Strength by SGS

ASTM D624

Fire Barrier Tested by SGS

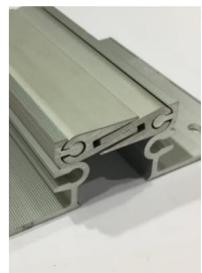
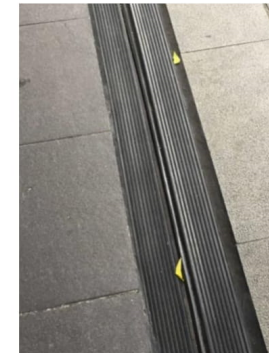
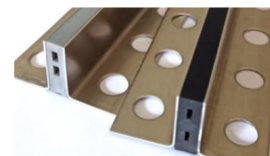
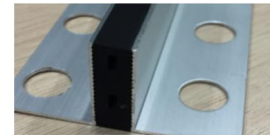
ASTM E 119-2011

Aluminium Alloy Tensile & Chemical Analysis by CTI

ASTM 6063-T5


BEH-HSM/AKER
from ideas to industry

EXPANSION JOINT™
EXPANSION JOINT SYSTEM & MOVEMENT JOINT



ENTRANCE FLOORING SYSTEM

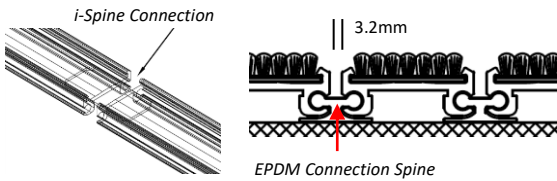
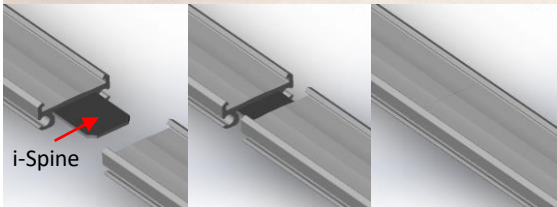
...is more than just an entrance mat

 Slip Resistance Tested by SIRIM
BS5393-1 & ASTM E 303
(114 – Dry Condition)
(100 – Wet Condition)

BEHHSM/AKER
from ideas to industry

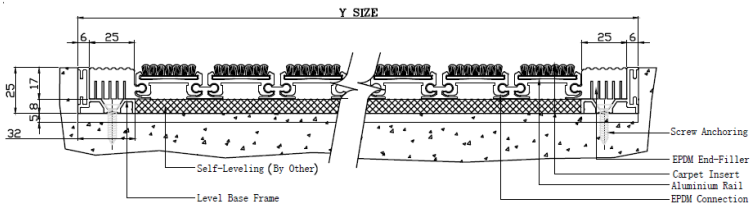
EXTRUDED ALUMINIUM PROFILE

BEHHSMAT NR17



Profile Design & Technical Specification:

- Extruded Aluminium alloy 6063-T5 “N-Rail” profile
- Extruded alloy i-Spine Connection to strengthen and aligned the structure where two pieces merged to avoid any cause injury
- Rolling load up to 1000lbs (450KG) per wheel
- Minimize the joint gap for safe and sure footing for slender heels
- EPDM connection spine eliminated any metal-to-slab noise and roll-able mat system for cleaning and maintenances



Case Study

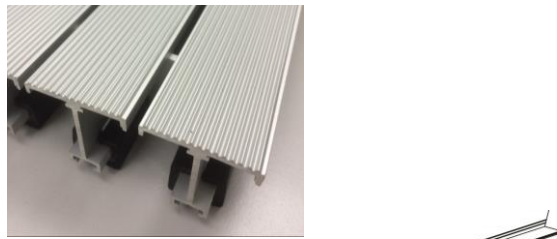
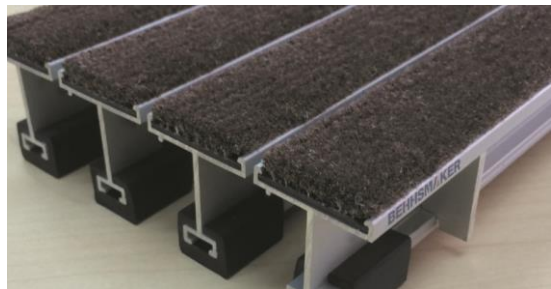
Gap at merge join
between two pieces of
mat may cause injury



Not aligned at merge join

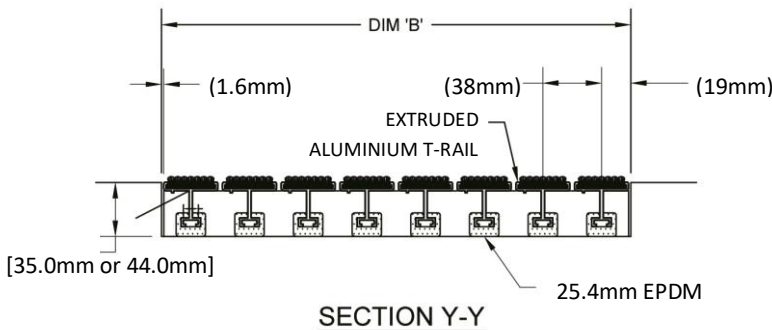


BEHHSMAT TR35

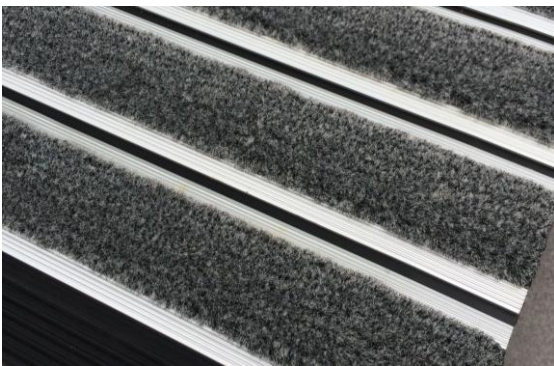


Profile Design & Technical Specification:

- Extruded Aluminium alloy 6063-T5 “T-Rail” profile
- Profile specific design for rainwater channeling
- Rolling load up to 400lbs (200KG) per wheel
- Minimize the joint gap for safe and sure footing for slender heels
- EPDM cushions level product & eliminated any metal-to-slab noise
- Available extruded serrated “T-Rail” for expose and outdoor use
- Extruded alloy i-Spine Connection to strengthen and aligned the structure where two pieces merged to avoid any cause injury

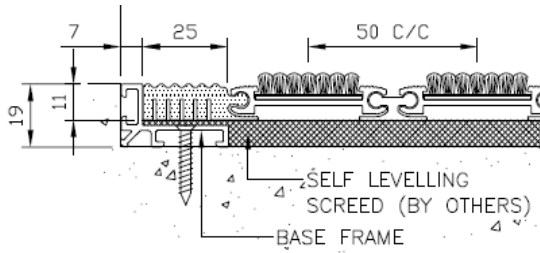


BEHHSMAT HR11



Profile Design & Technical Specification:

- Extruded Aluminium alloy 6063-T5 “H-Rail” profile
- Low profile for light traffic flow
- Rolling load up to 500lbs (200KG) per wheel
- EPDM connection spine to link hinge aluminium bases together eliminates any metal-to-slab noise
- Roll-able mat system for cleaning and maintenances



MODULES VINLY PROFILE

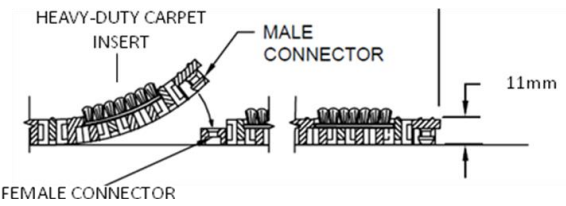
BEHHSMAT VinylFlex




Modules Size: 9” x 9”

Profile Design & Technical Specification:

- Modules profile, flexible & Ecofriendly design
- Interlocking modular tiles stay in place with hidden connectors
- Minimize gap for safe and sure footing for slender heels
- Easy install & replacement
- Attached with heavy-duty carpet insert to enhance trapped dirt & soil.



HDMT Carpet Insert

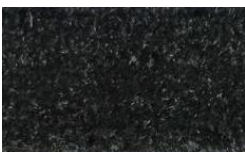
 HDMT (Heavy-Duty Mono-Tufted) Carpet with Durable Brushes Insert



BM05
Mocha



BM23
Gray



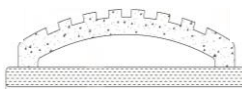
BM73
Charcoal



BM03
Desert



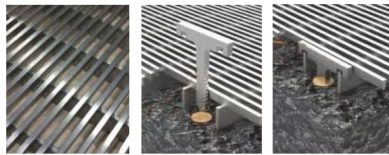
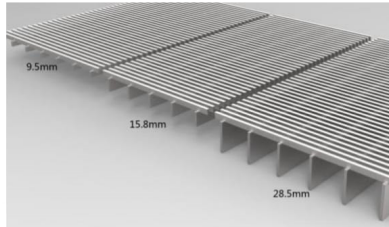
BM93
Carbon



Duality Hardness
EPDM Insert

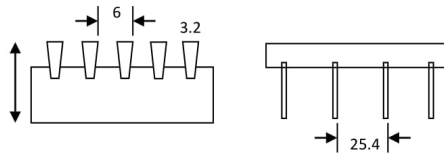
STAINLESS STEEL PROFILE

BEHHSMAT LD GRIDMAT



Profile Design & Technical Specification:

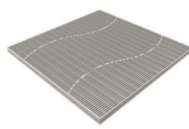
- Stainless Steel 304 grade
- Borderless design with inverted triangle monolithic grid design for water flow faster
- Electronically welded at all joints
- Rolling load up to 500lbs (200KG) per wheel
- BEHHSMAKER "T-LOCK" concealed anchoring system
- Three different heights 9.5mm, 15.8mm & 28.5mm



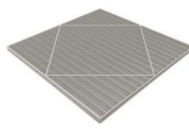
BEHHSMAT GRIDTILE



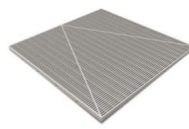
LOGO



WAVE



DIAMOND



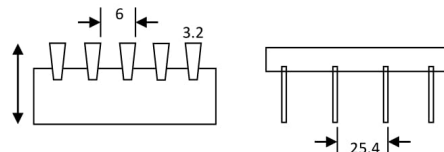
TRIANGLE

Clip-Pin for concealed anchoring



Profile Design & Technical Specification:

- Stainless Steel 304 grade
- Design formed in 457mm x 457mm with inverted triangle monolithic grid design for water flow faster
- Electronically welded at all joints
- Rolling load up to 500lbs (200KG) per wheel
- BEHHSMAKER "Clip-Pin" concealed anchoring system
- Profile standard height 15.8mm
- Anti-Slip & safe and sure footing for slender heels
- Caving pattern/design or even Logo
- Membrane underneath eliminate noise



BEHHSM/KER
from ideas to industry

PRODUCT TESTED BY



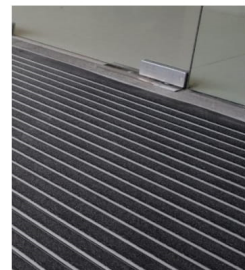
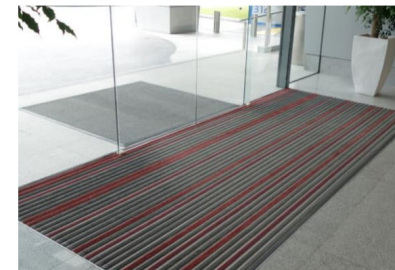
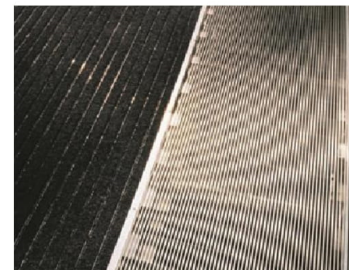
Slip Resistance Tested by SIRIM

BS5393-1 & ASTM E 303

(114 – Dry Condition)

(100 – Wet Condition)

BEHHSMAT™
ENTRANCE FLOORING SYSTEM



HSL3155

PRODUCT SPECIFICATION AND TECHNICAL DATA

Profile Material:

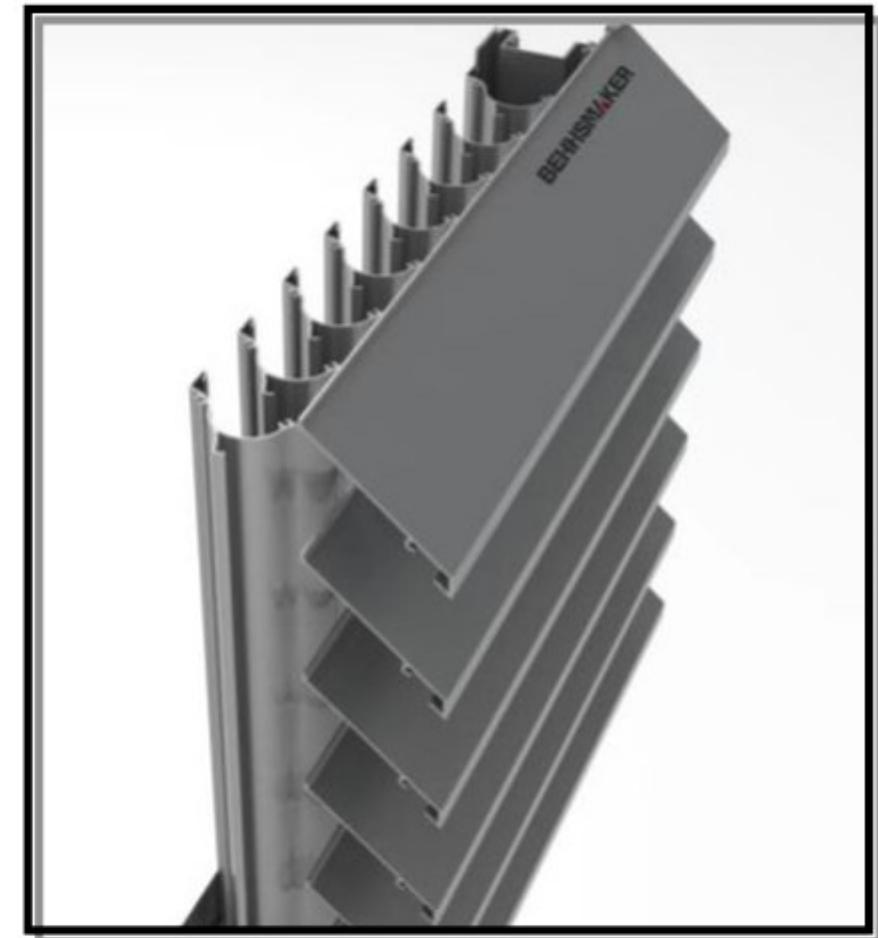
Extruded Aluminium Alloy 6063-T5

Triple-bank Storm Louvers – HSL3155

(Horizontal architectural lines profile with Rear Vertical Blades design)

FREE AREA: 49% (per meter sq.)

Actual product with
woodgrain finishes



Profile Design & Technical Specification:

Extruded aluminium alloy horizontal blades for architectural lines design. BEHHSLOUVERS HSL3155 is Modular Louvers come with Rear Vertical Blades design for better water discharged ideas. Excellent rating “A” effectiveness of rain defend and 49% free area.

Profile Finished:

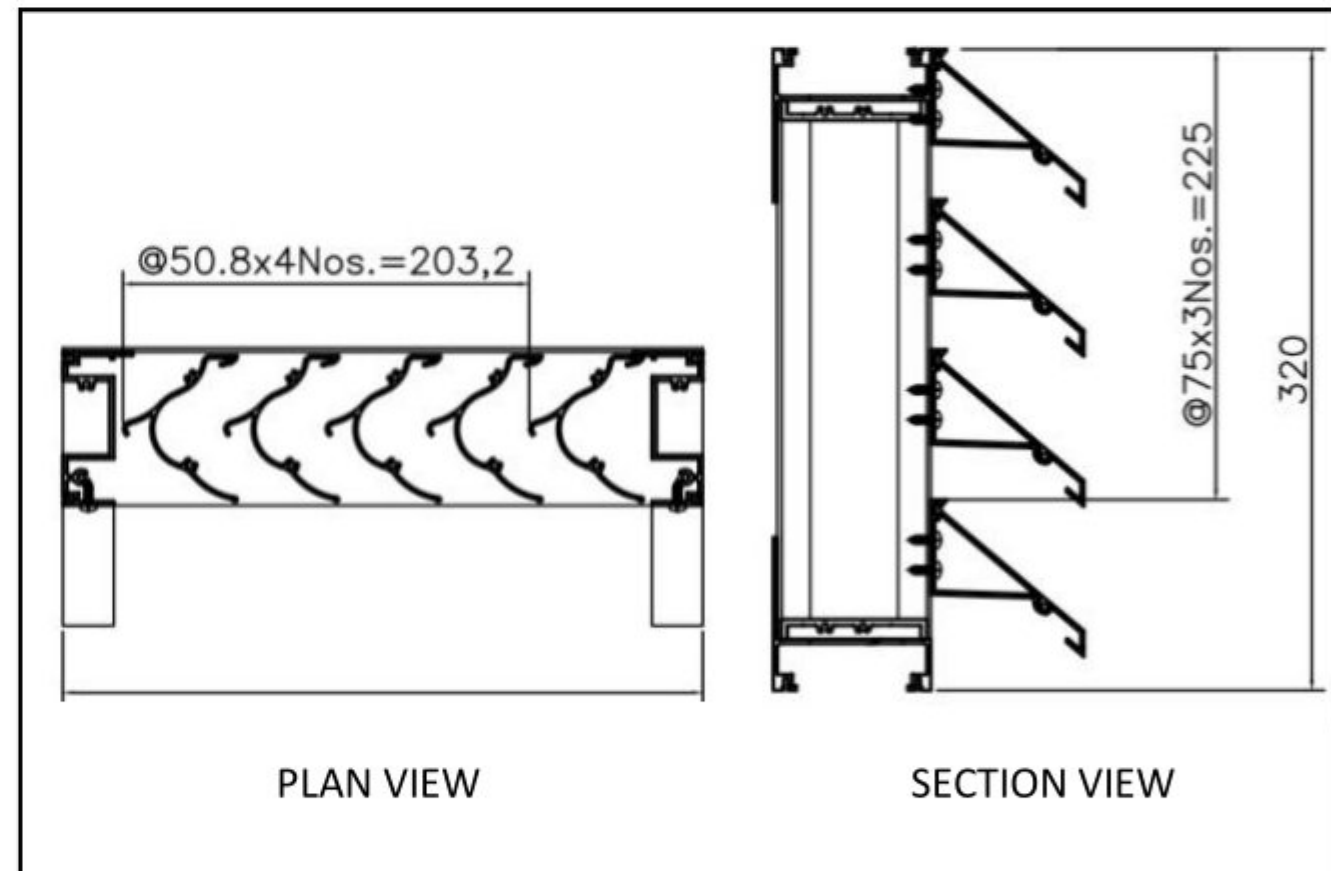
Clear Anodized

PVDF Coating (10 years warranty)

Alternative Front Blade Profiles:



Flat Nose



Dimension:

Pitch: 75mm

Fixed Blade: 1.52mm

Depth: 155mm

Mullion: 2.03mm

Performance Characteristic:

Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.4
Louver Effectiveness (%)	100	100	100	100	100	100	100
Free Area Ventilation Rate (ft/min)	0	188	318	433	610	748	901
Rating effectiveness:	A	A	A	A	A	A	A
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = 0.80 to 0

BEHHSLOUVERS PRODUCTS WITH 10 YEARS WARRANTY.

HSL3155

PRODUCT SPECIFICATION AND TECHNICAL DATA

Criteria:

Effectiveness rating with a 48 km/h wind speed and a rainfall rate of 3 in/hr

- Max intake core velocity 3.6 m/s (710 FPM)
- Max intake free area velocity 6.55 m/s (1290 FPM)
- Intake pressure drop (at 2.5 m/s face air velocity) – 47.2 Pa

PERFORMANCE TABLE

Depth (mm)	Pitch (mm)	Blade Configuration	Airflow Rate in m3/s						
			0.0	0.5	1.0	1.5	2.0	2.5	3.0
155	75	Triple Blade	A	A	A	A	A	A	A

AIR FLOW PERFORMANCE

Airflow Coefficient	Airflow Class	Rain Defend Rating	Airflow Rating
0.282	3	Excellent	Good

RAIN DEFEND PERFORMANCE

Class	Effectiveness %	Max. allowed Penetration of Simulated Rain (l/hr/m2)	Rating
A	99 to 100	0.75	Excellent
B	95 to 98.9	3.75	Good
C	80 to 94.9	15	Fair
D	Below 80	More than 15	Not applicable

HSL1150

PRODUCT SPECIFICATION AND TECHNICAL DATA

Profile Material:

Extruded Aluminium Alloy 6063-T5

Single-bank Storm Louvers – HSL1150

(Architectural Line Hidden Mullion Profile)

FREE AREA RATIO: 80% (per meter sq.)



Profile Design & Technical Specification:

Extruded aluminium alloy storm resistant louvers come with an architectural line appearance horizontal and hidden mullion profile. BEHHSLOUVERS HSL1150 is modular louvers come with single blades profile for better air-flow with minimum rainwater defend. *Optional combined with HSL 2150 (double blades) with excellence stormwater discharge and rating “A” effectiveness of rain defend.

Profile Finished:

Clear Anodized

PVDF Coating (10 years warranty)

Front Blade Profiles:

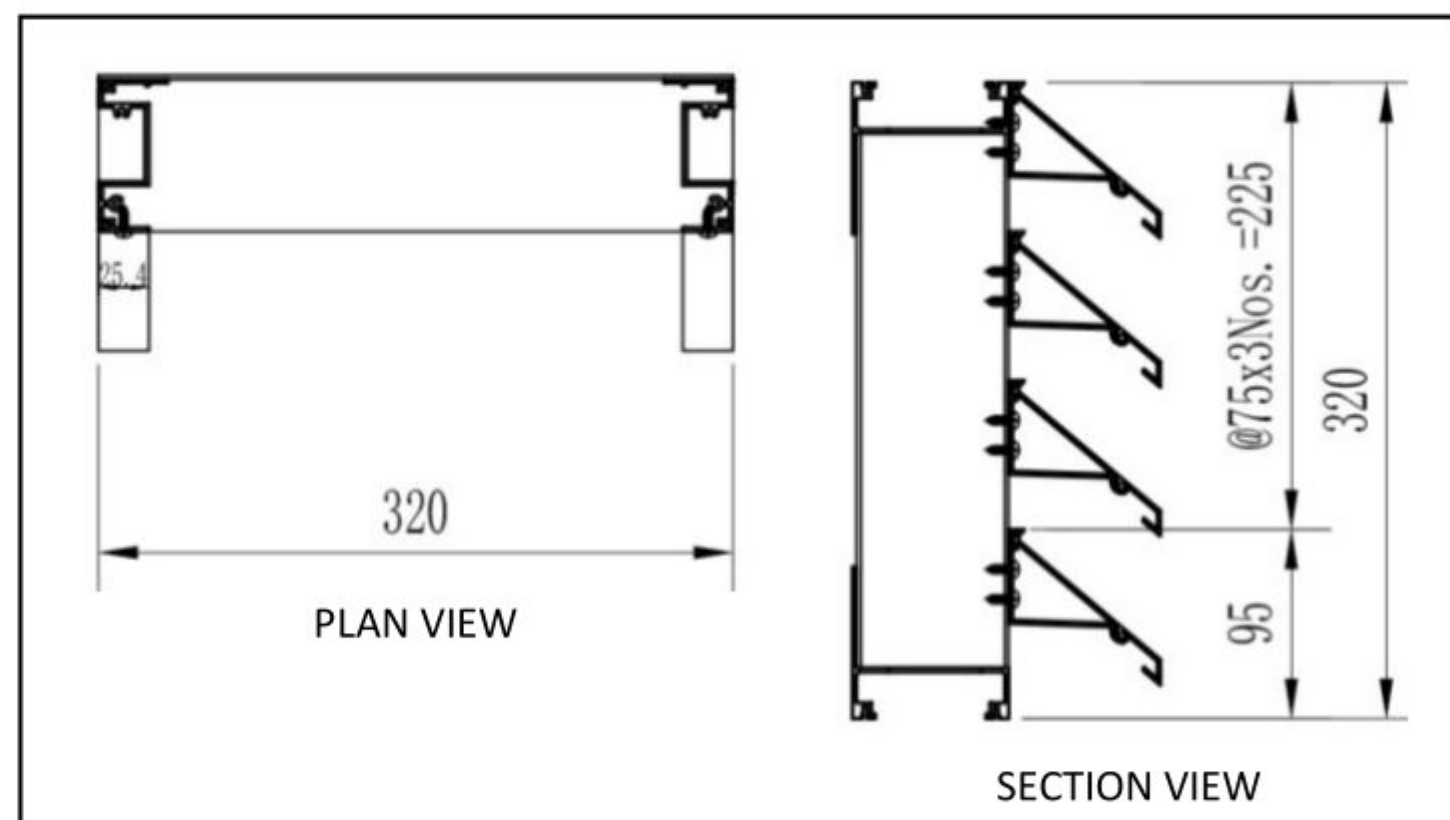


Flat Nose

Dimension:

Pitch: 75mm Fixed Blade: 1.52mm

Depth: 150mm Mullion: 2.03mm



Performance Characteristic:

Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0
Free Area Ventilation Rate (ft/min)	0	186	360	542	727	867	1072
Rating effectiveness:	C	C	C	C	C	C	C
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = 0.80 to 0

BEHHSLOUVERS PRODUCTS WITH 10 YEARS WARRANTY.

BEHHSLOUVERS HSL1150

PRODUCT SPECIFICATION AND TECHNICAL DATA

Criteria:

Effectiveness rating with a 46 km/h wind speed and a rainfall rate of 3 in/hr

- Max intake core velocity 1.3 m/s (258 FPM)
- Max intake free area velocity 2.46 m/s (485 FPM)
- Intake pressure drop 5.0Pa

PERFORMANCE TABLE

Depth (mm)	Pitch (mm)	Blade Configuration	Airflow Rate in m3/s						
			0.0	0.5	1.0	1.5	2.0	2.5	3.0
150	75	Single Blade	C	C	C	C	C	C	C

AIR FLOW PERFORMANCE

Airflow Coefficient	Airflow Class	Rain Defend Rating	Airflow Rating
0.434	1	Fair	Excellent

RAIN DEFEND PERFORMANCE

Class	Effectiveness %	Max. allowed Penetration of Simulated Rain (l/hr/m2)	Rating
A	99 to 100	0.75	Excellent
B	95 to 98.9	3.75	Good
C	80 to 94.9	15	Fair
D	Below 80	More than 15	Not applicable

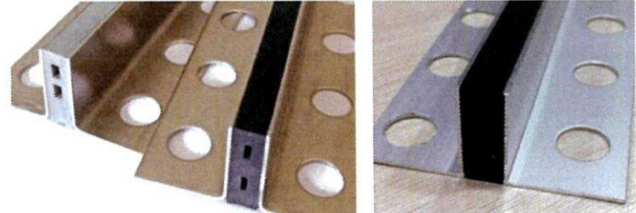
MOVEMENT JOINT SYSTEM MSMJL/MSMJLA

PRODUCT SPECIFICATION AND TECHNICAL DATA

Profile Material: (Component)

Core - Extrusion Neoprene

Structure - Alloy 6063 | SUS304 | SUS316

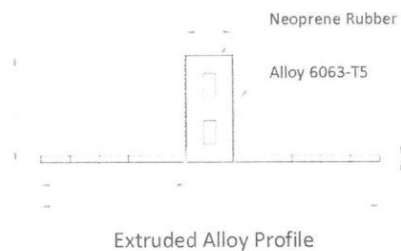


Profile Design & Technical Specification:

- Tensile Strength ASTM D412
- 55 – 80 Shore A Hardness ASTM D2244
- Tear Strength ASTM D624
- Elongation at break 600 ~ 800%
- Temperature range (-40 ~ +120 Degree Celsius)
- Abrasion resistance (dynamic abrasive force)

Profile Finished:

Available in Black, Gray.



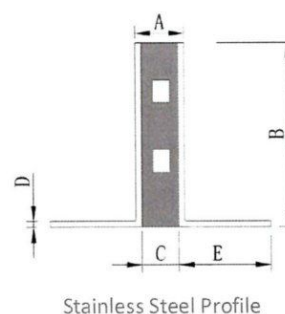
Performance Characteristic:

Movement Joint typically comprises a compressible polychloroprene core which resistance to chemical, detergent, and abrasion and sandwiched by stainless steel or aluminium side. Design appears as grout line whilst absorbing localized compression and expansion stresses. Side plates keyholes are allowed positive key with grout.

Technical Data and Profile Description:

Model	Dimension (mm)				
	A	B	C	D	E
10/15	10	15	8	1	25
10/18	10	18	8	1	25
10/23	10	23	8	1	25
10/25	10	25	8	1	25
14/23	14	23	12	1	25
11/40	11	40	8	1.5	25
15/40	15	40	12	1.5	25

(custom size available on request; Black Alloy anodizing is available)



INTERNATIONAL STANDARD

Recommended Bay Sizes: Internal 8.0m – 10.0m; External 4.5m – 6.0m

In accordance with BS 5385: Part 3 - 1989, (clause 19 to 23) that requires joints at all perimeters of the tiled area, coincidental with existing structural movement joints in the substrate and across large floor areas at 8 to 10m intervals. Neoprene thickness minimum 6mm for internal cover area, 1.6mm increased for indoor temperature 10°C changed (TCNA standard).

MOVEMENT JOINT SYSTEM

MSMJL



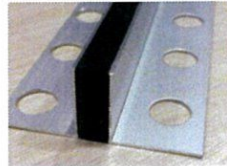
Profile Design & Technical Specification:

- Stainless Steel 316 / 304 grade
- Movement joint designed bedded into adhesive and under tiles. Each site plate is punched to allow positive key with adhesive.
- Neoprene is resistance to most chemicals and detergents generally used in tiled application.

MSMJLA

Profile Design & Technical Specification:

- Extruded Aluminium Alloy 6063-T5
- Reduce polish pad damage with smooth edge design
- Rigid "L-Angle" extrusion for better performance



INTERNATIONAL STANDARD

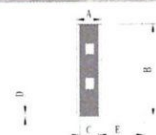
Recommended Bay Sizes:

Internal 8.0m ~ 10.0m

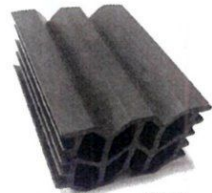
External 4.5m ~ 6.0m

In accordance with BS 5385: Part 3 - 1989, (clause 19 to 23) that requires joints at all perimeters of the tiled area, coincidental with existing structural movement joints in the substrate and across large floor areas at 8 to 10m intervals. Neoprene thickness minimum 6mm for internal cover area, 1.6mm increased for indoor temperature 10°C changed (TCNA standard).

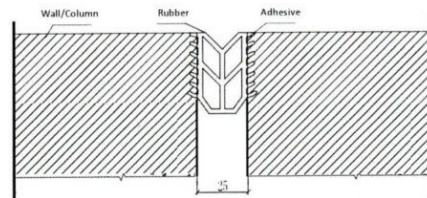
Model	Dimension (mm)				
	A	B	C	D	E
10/15	10	15	8	1	25
10/18	10	18	8	1	25
10/23	10	23	8	1	25
10/25	10	25	8	1	25
14/23	14	23	12	1	25
11/40	11	40	8	1.5	25
15/40	15	40	12	1.5	25



InstantFix EXPANSION JOINT

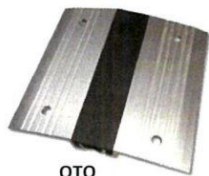


EPLD

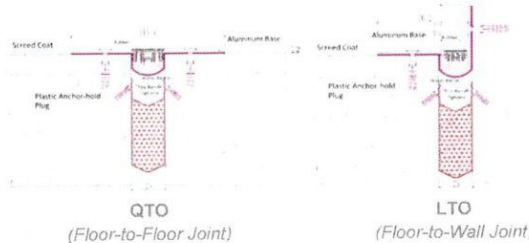


(Wall-to-Wall / Column-to-Column Joint)

MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
EPLD	25	25	12 (Min) 37 (Max)	≤ 2
EPLD	50	50	25 (Min) 76 (Max)	≤ 2



QTO



QTO

(Floor-to-Floor Joint)

LTO

(Floor-to-Wall Joint)

MODEL	JOINT WIDTH (W) (mm)	EXPOSED SURFACE (ES) (mm)	MOVEMENT CAPACITY (mm)	SETTLEMENT CAPACITY (mm)
QTO / LTO	25	115 / 70	12 / 12	≤ 2
QTO / LTO	50	140 / 95	25 / 25	≤ 2



LTO

BEHNSMAKER
from ideas to industry

PRODUCT TESTED BY

SGS CTI

Rubber Tensile Strength by SGS

ASTM D412

Rubber Tear Strength by SGS

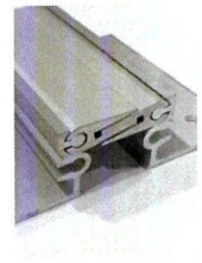
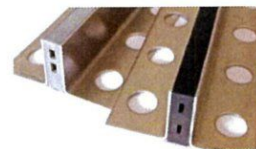
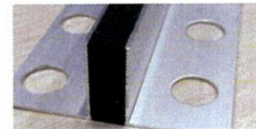
ASTM D624

Fire Barrier Tested by SGS

ASTM E 119-2011

Aluminium Alloy Tensile & Chemical Analysis by CTI

ASTM 6063-T5



HSL2150

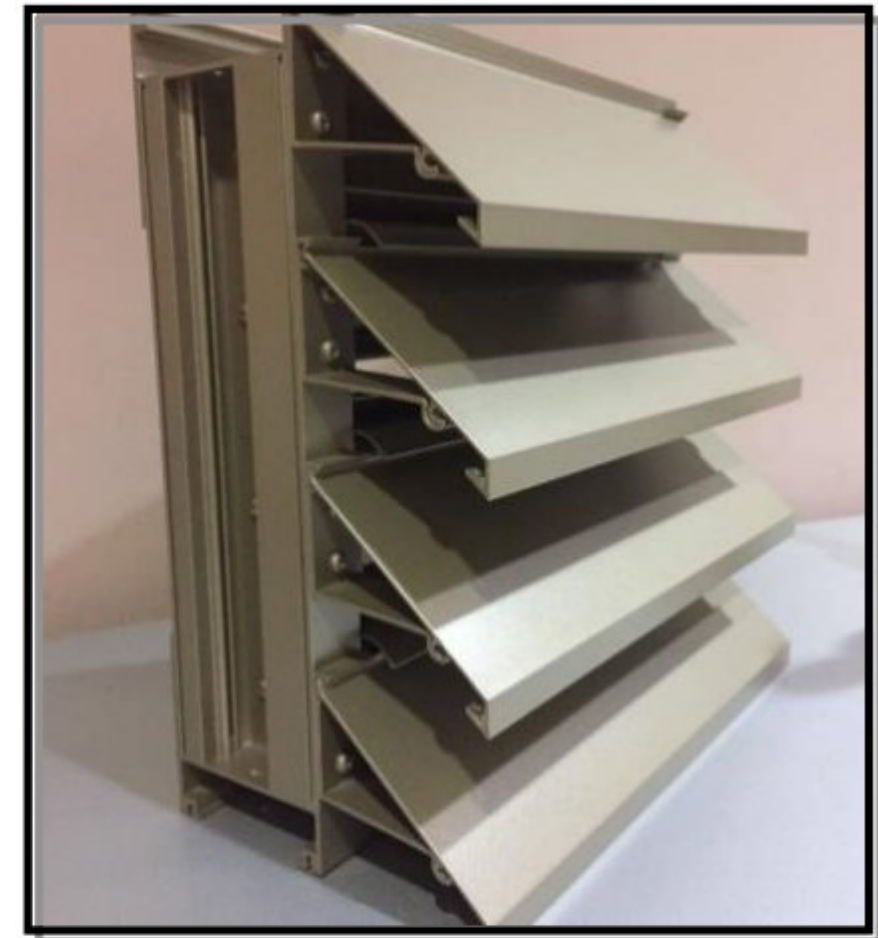
PRODUCT SPECIFICATION AND TECHNICAL DATA

Profile Material:

Extruded Aluminium Alloy 6063-T5

Double-bank Storm Louvers – HSL2150
(Architectural Line Hidden Mullion Profile)

FREE AREA: 51% (per meter sq.)



Profile Design & Technical Specification:

Extruded aluminium alloy storm resistant louvers come with an architectural line appearance horizontal and hidden mullion profile. BEHHSLOUVERS HSL2150 is Modular Louvers come with double Blades profile with rainwater channeling design for better water discharged ideas. Excellent rating “A” effectiveness of rain defend and 51% free area.

Profile Finished:

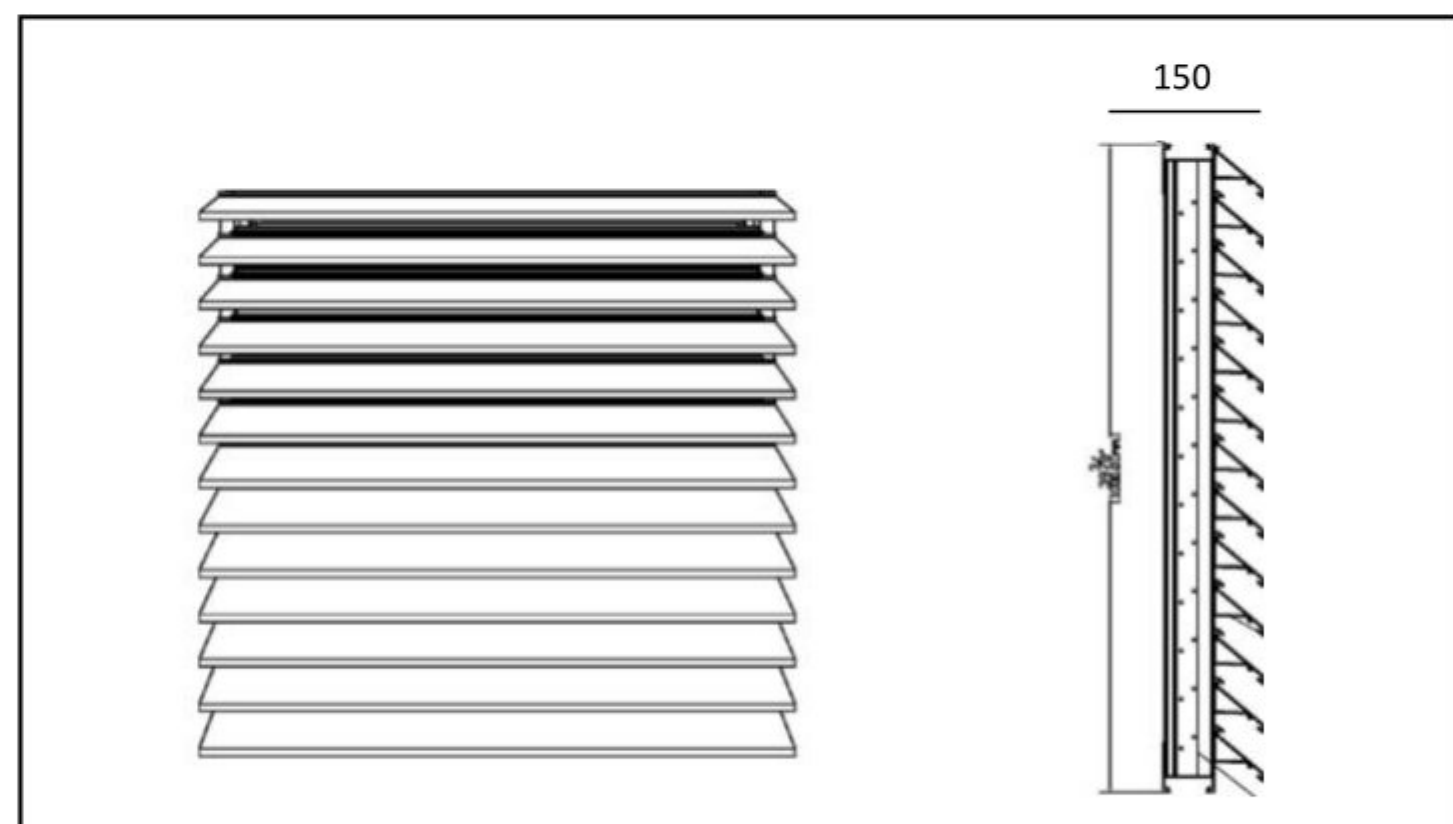
Clear Anodized

PVDF Coating (10 years warranty)

Alternative Front Blade Profiles:



Flat
Nose



Dimension:

Pitch: 75mm Fixed Blade: 1.30mm

Depth: 150mm Mullion: 2.03mm

Performance Characteristic:

Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0
Free Area Ventilation Rate (ft/min)	0	186	360	542	727	867	1072
Rating effectiveness:	A	A	A	B	C	C	C
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = 0.80 to 0

BEHHSLOUVERS PRODUCTS WITH 10 YEARS WARRANTY.

HSL2150

PRODUCT SPECIFICATION AND TECHNICAL DATA

Criteria:

Effectiveness rating with a 46 km/h wind speed and a rainfall rate of 3 in/hr

- Max intake core velocity 1.3 m/s (258 FPM)
- Max intake free area velocity 2.46 m/s (485 FPM)
- Intake pressure drop 19.9Pa

PERFORMANCE TABLE

Depth (mm)	Pitch (mm)	Blade Configuration	Airflow Rate in m3/s						
			0.0	0.5	1.0	1.5	2.0	2.5	3.0
150	75	Dual Blade	A	A	A	B	C	C	C

AIR FLOW PERFORMANCE

Airflow Coefficient	Airflow Class	Rain Defend Rating	Airflow Rating
0.320	2	Good	Very Good

RAIN DEFEND PERFORMANCE

Class	Effectiveness %	Max. allowed Penetration of Simulated Rain (l/hr/m2)	Rating
A	99 to 100	0.75	Excellent
B	95 to 98.9	3.75	Good
C	80 to 94.9	15	Fair
D	Below 80	More than 15	Not applicable