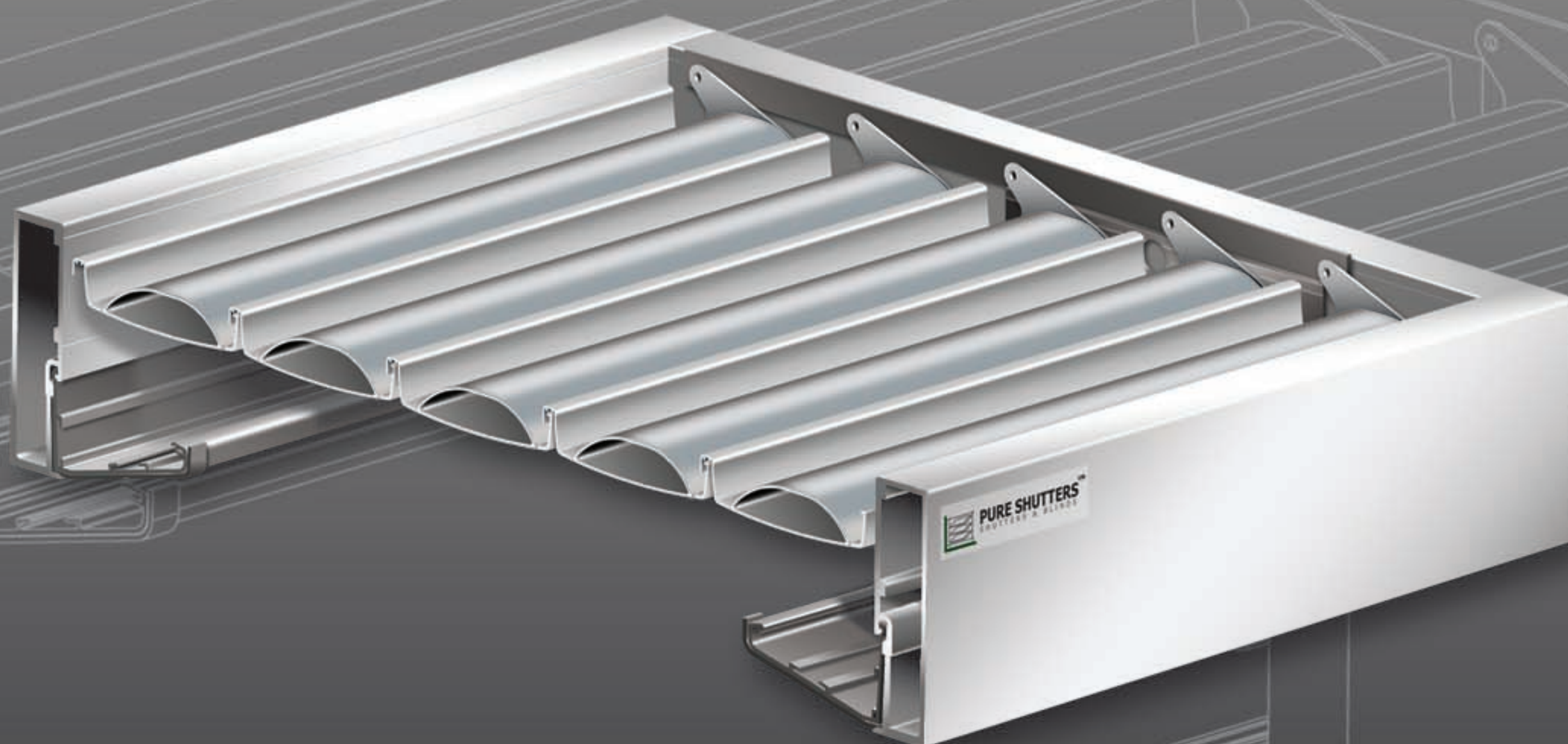


Yero

TECHNICAL DATA

Pure & Simple
SHUTTERS & BLINDS



Multiple Application

No. 1 Most complete range of
**ALUMINUM SHUTTERS, LOUVRES and
SHADING SOLUTION**
in Asia and Australia

PURE SHUTTERS™
SHUTTERS & BLINDS



YERO PROFILE SECTIONS SPECIFICATIONS

YERO ROOFING SYSTEM ENGINEERING REFERENCES AND DESIGN INFORMATION

The Design has been carried out using the following Australian and New Zealand Standards :

- Part 0 : General principles -AS/NZS 1170.0:2002
- Part 1 : Permanent, imposed and other actions - AS/NZS 1170.1:2002
- Part 2 : Wind actions - AS/NZS 1170.2:2002

Aluminum Structures

- Part 1 : Limit State Design - AS/NZS 1664.1 : 1997
- Timber framed Buildings - NZS 3604: 1999

DESIGN PARAMETERS FOR BLADE SPANS :

- HEIGHT OF BUILDING < 10m
- ROOFS FIXED TO EXISTING BUILDING
- DRAG HAS BEEN IGNORED
- RATIO OF WIDTH TO LENGTH OF THE FRAME DOES NOT EXCEED 5:1
- WIND ZONES EXCEEDING EXTREMELY HIGH, SPECIFIC ENGINEERING DESIGN IS REQUIRED
- SNOW LOADS HAVE NOT BEEN COVERED BELOW. WILL REQUIRE SPECIFIC DESIGN
- DESIGN OF THE BEAMS ARE BASED ON A MAXIMUM DEFLECTION LIMIT OF SPAN/100
- DESIGN OF THE BLADES ARE BASED ON A MAXIMUM DEFLECTION LIMIT OF SPAN/40

YERO BEAM (OR FRAME) 215X55



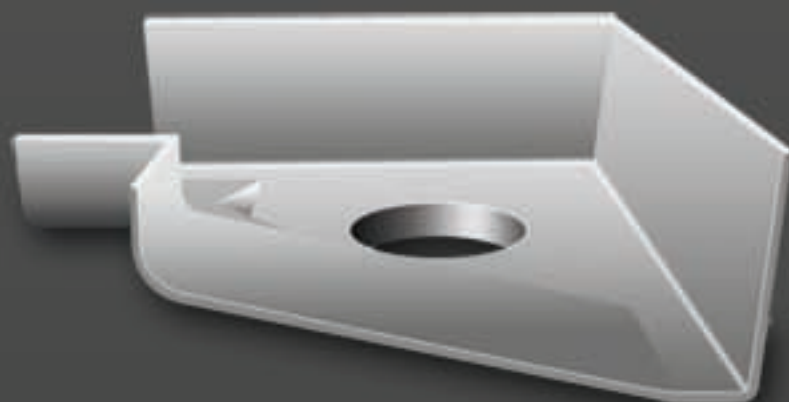
YERO GUTTER 152



YERO 188 AERO ROOF BLADE



YERO 188 CLASSIC ROOF BLADE



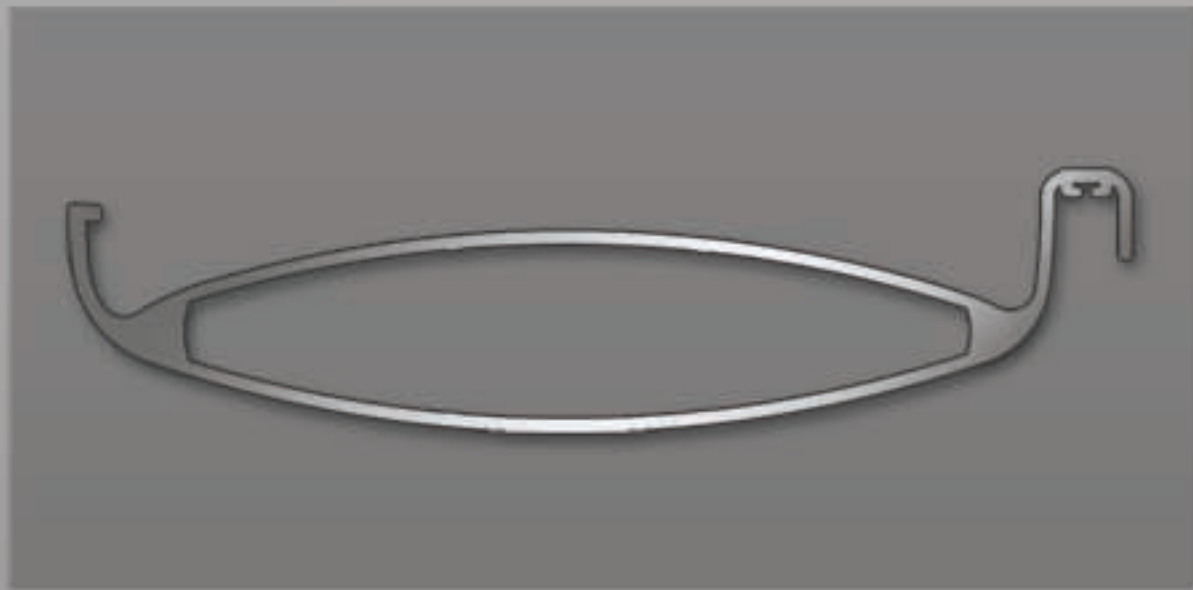
CORNER GUTTER WITH DOWN PIPE HOLE



STANDARD CORNER GUTTER

YERO 188 AERO ROOF BLADE

BLADE WIDTH	188 MM
BLADE HEIGHT	178 MM
BLADE FINISHINGS	POWDER COATING NATURAL ANODISING

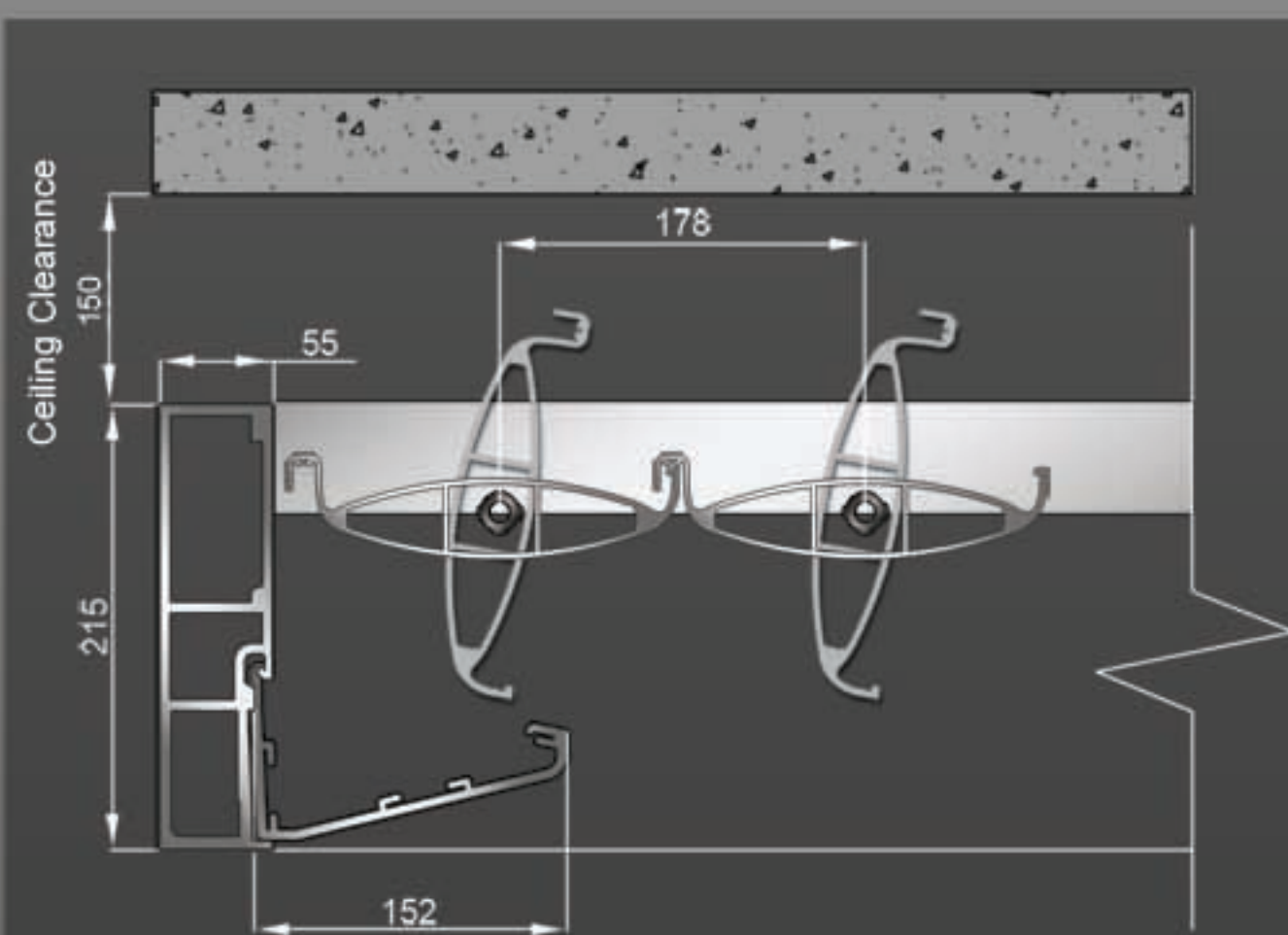


- DESIGN PARAMETERS FOR BLADE SPANS :
- Height of Building < 10m
 - Roofs fixed to existing Building
 - Drag has been ignored
 - Ratio of width to length of the frame does not exceed 5:1
 - Wind zones exceeding extremely high, specific engineering design is required
 - Snow loads have not been covered below, will require specific design
 - Design of the Blade Louvres are based on a maximum deflection limit of span/40

BLADE SPANS REFERENCE :

WIND ZONES	LOW	MEDIUM	HIGH	VERY HIGH	EXTREMELY HIGH
WIND SPEED , m / s - km/h	32 m/s - 115 km/h	37 m/s- 133 km/h	44 m/s- 158 km/h	50 m/s- 179 km/h	55 m/s- 198 km/h
MAXIMUM SPAN , mm	4600 mm	4200 mm	3600 mm	3300 mm	3000 mm

: Factors such as climate , terrain , structure , shielding , location and other factors all contribute to determine spans.



HOW TO CALCULATE MAXIMUM FRAME LENGTH, MM AND NUMBER OF BLADES PER PANEL

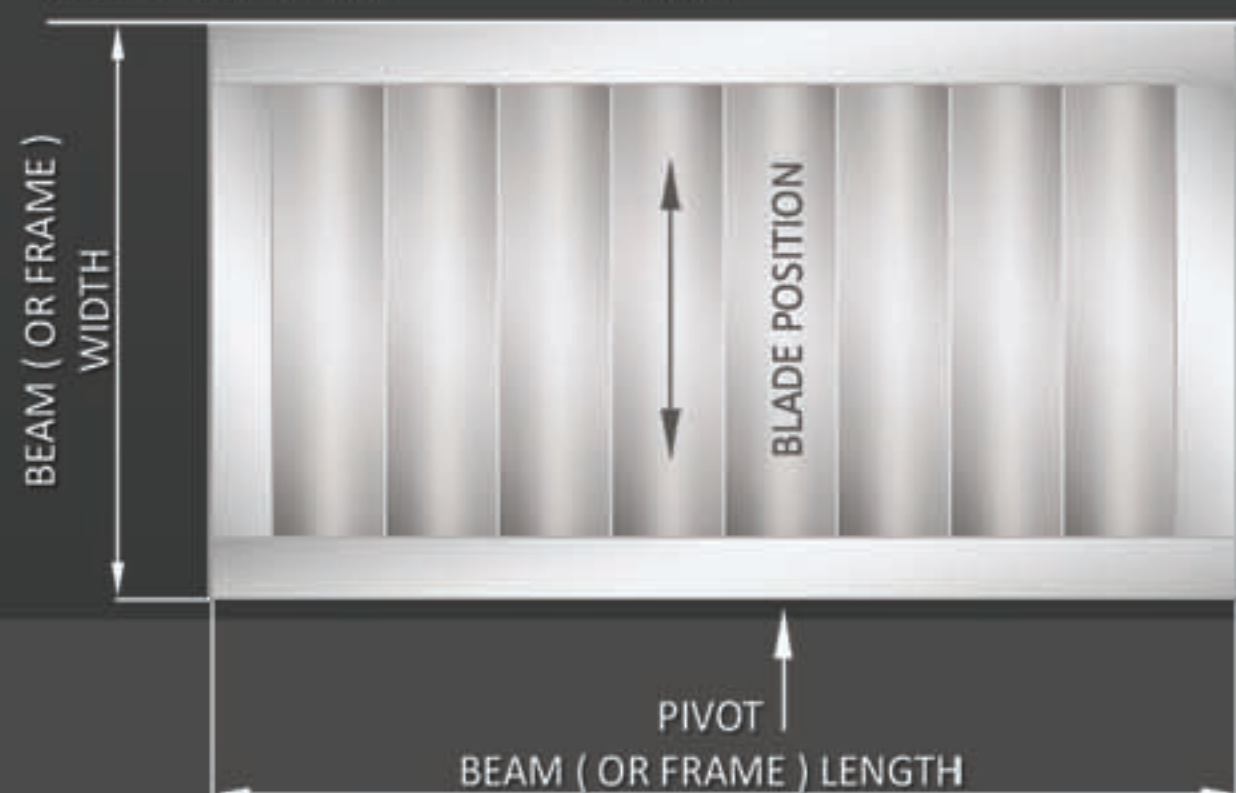
EXAMPLE : APPROXIMATE LENGTH = 5000mm

- STEP 1 : 5000mm less 320mm = 4680 mm
- STEP 2 : 4680mm Divide by 178mm Pitch = 26.29 , round down to 26
- STEP 3 : TOTAL NO. OF BLADES = 26+ 1 = 27 pcs of Blades
- STEP 4 : TOTAL ACTUAL MAXIMUM LENGTH OF FRAME [(27 - 1) x 178mm Pitch] + 320mm = 4948 mm

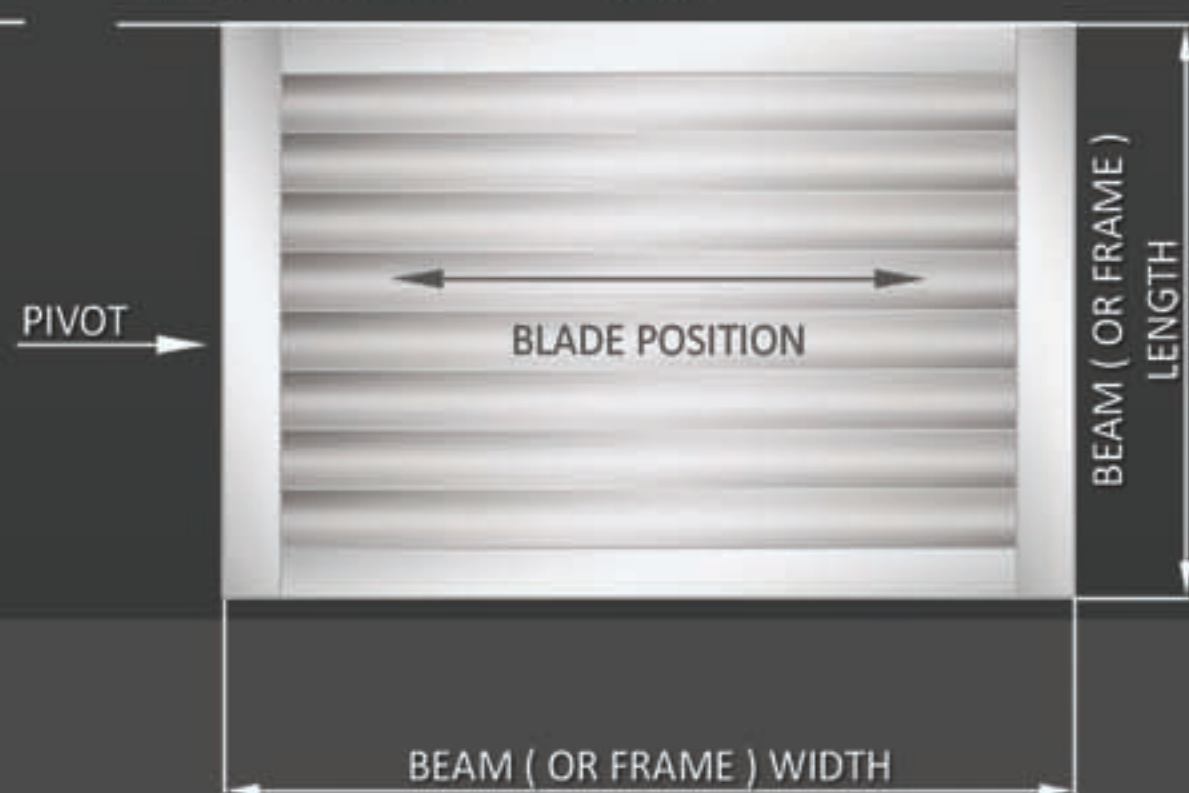
THEREFORE :
 FINAL FRAME LENGTH = 4948mm
 FINAL BLADE QUANTITY = 27 pcs.

Note : Refer to "Number of Blades Vs. Beam Length Table "

ROOF TYPE A : HOUSE

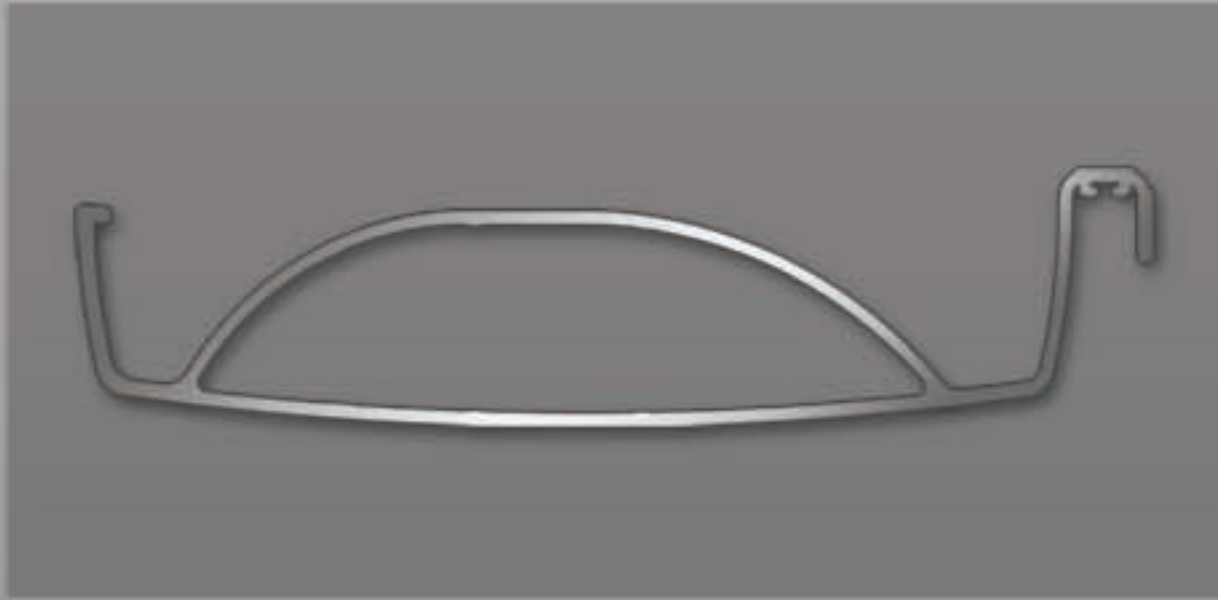


ROOF TYPE B : HOUSE



YERO 188 CLASSIC ROOF BLADE

BLADE WIDTH	188 MM
BLADE HEIGHT	178 MM
BLADE FINISHINGS	POWDER COATING NATURAL ANODISING



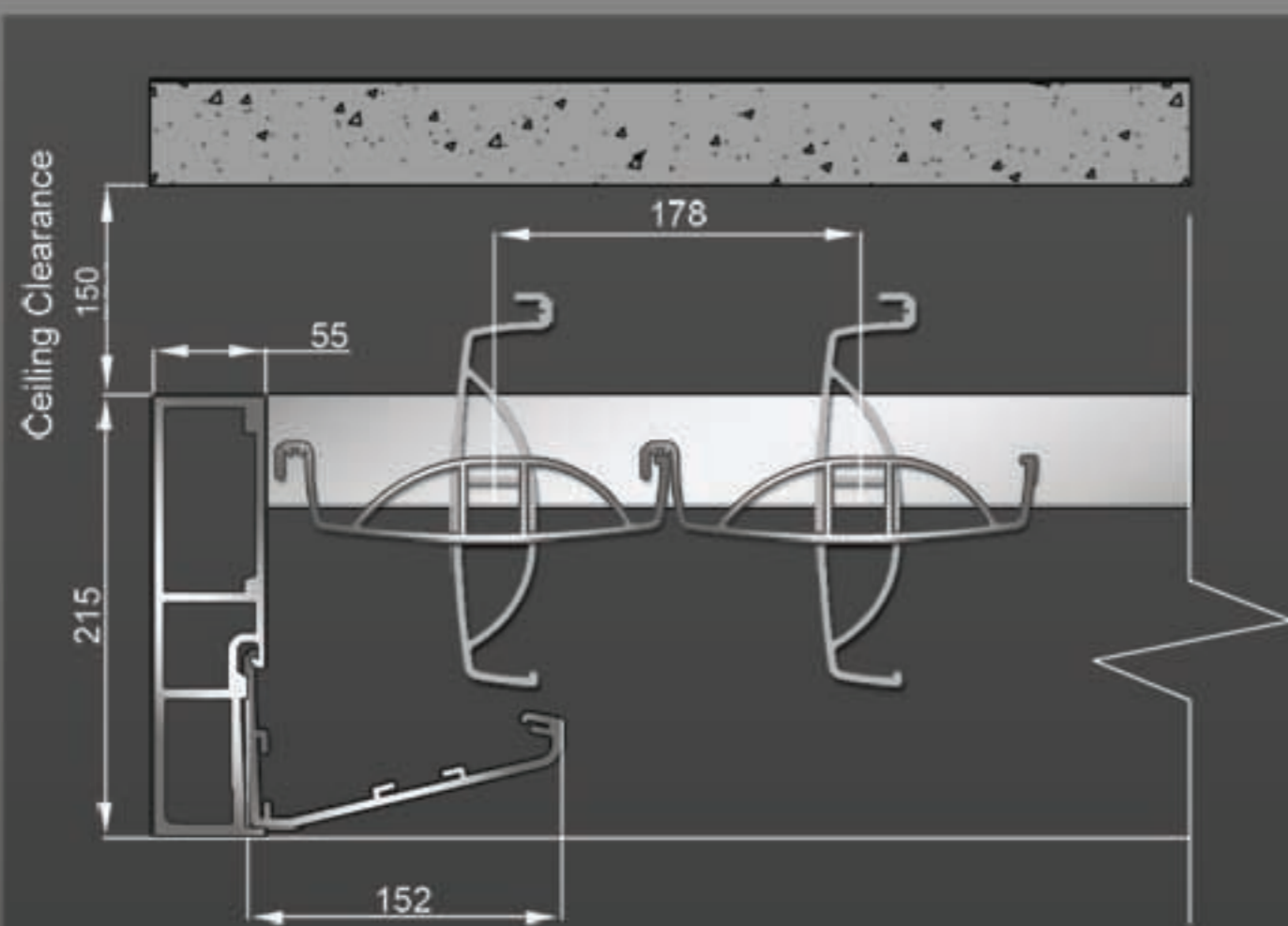
DESIGN PARAMETERS FOR BLADE SPANS :

- Height of Building < 10m
- Roofs fixed to existing Building
- Drag has been ignored
- Ratio of width to length of the frame does not exceed 5:1
- Wind zones exceeding extremely high, specific engineering design is required
- Snow loads have not been covered below, will require specific design
- Design of the Blade Louvres are based on a maximum deflection limit of span/40

BLADE SPANS REFERENCE :

WIND ZONES	LOW	MEDIUM	HIGH	VERY HIGH	EXTREMELY HIGH
WIND SPEED , m / s - km/h	32 m/s - 115 km/h	37 m/s- 133 km/h	44 m/s- 158 km/h	50 m/s- 179 km/h	55 m/s- 198 km/h
MAXIMUM SPAN , mm	5000 mm	4500 mm	3800 mm	3400 mm	3100 mm

: Factors such as climate , terrain , structure , shielding , location and other factors all contribute to determine spans.



HOW TO CALCULATE MAXIMUM FRAME LENGTH, MM AND NUMBER OF BLADES PER PANEL

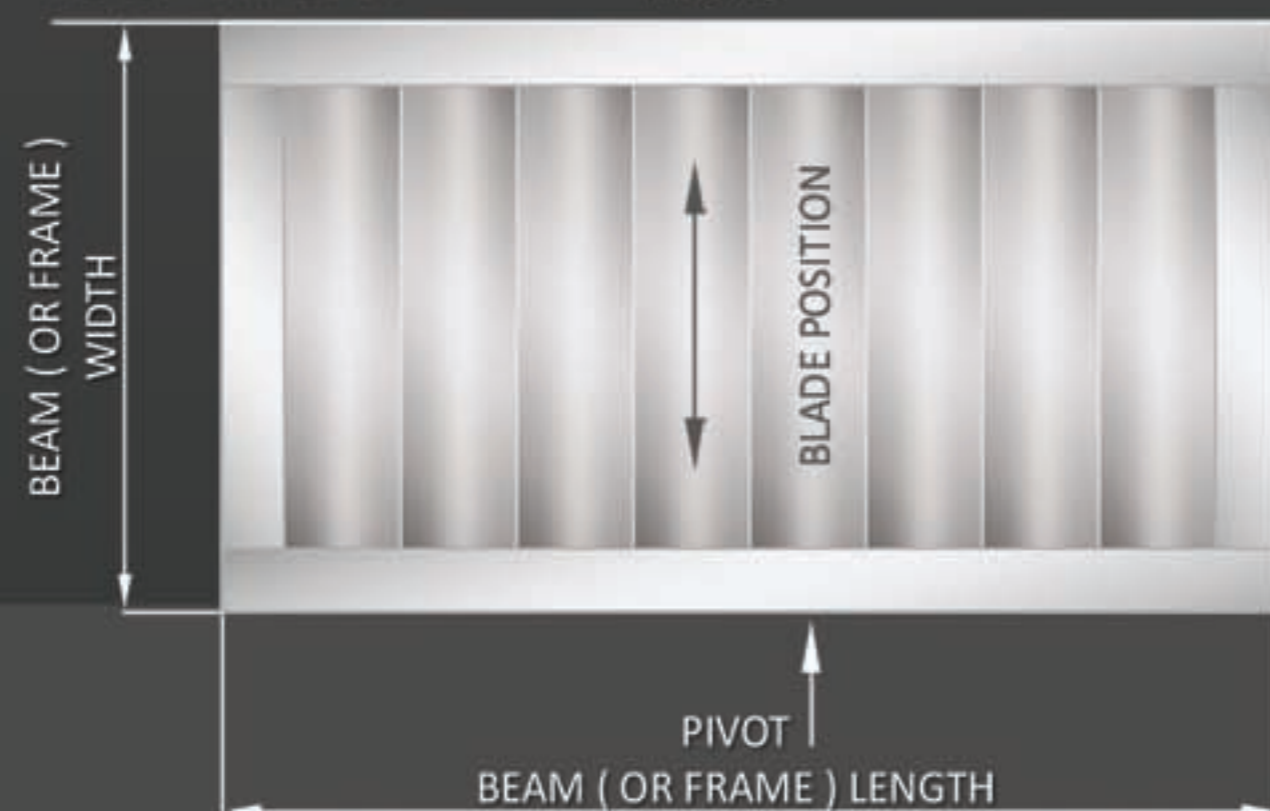
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- STEP 2 : 4680mm Divide by 178mm Pitch = 26.29 , round down to 26
- STEP 3 : TOTAL NO. OF BLADES = 26+ 1 = 27 pcs of Blades
- STEP 4 : TOTAL ACTUAL MAXIMUM LENGTH OF FRAME [(27 - 1) x 178mm Pitch] + 320mm = 4948 mm

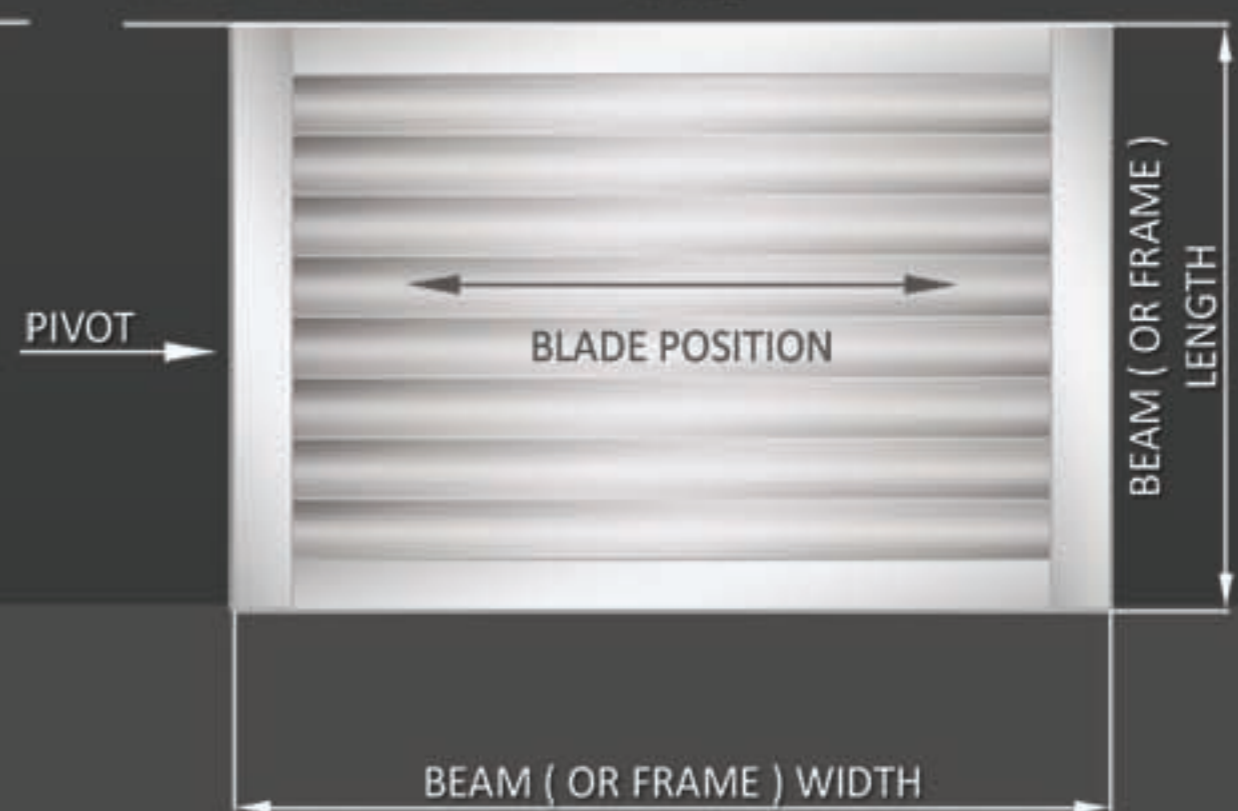
THEREFORE :
FINAL FRAME LENGTH = 4948mm
FINAL BLADE QUANTITY = 27 pcs.

Note : Refer to "Number of Blades Vs.Beam Length Table "

ROOF TYPE A : HOUSE



ROOF TYPE B : HOUSE



YERO BEAM (OR FRAME) 215 X 55



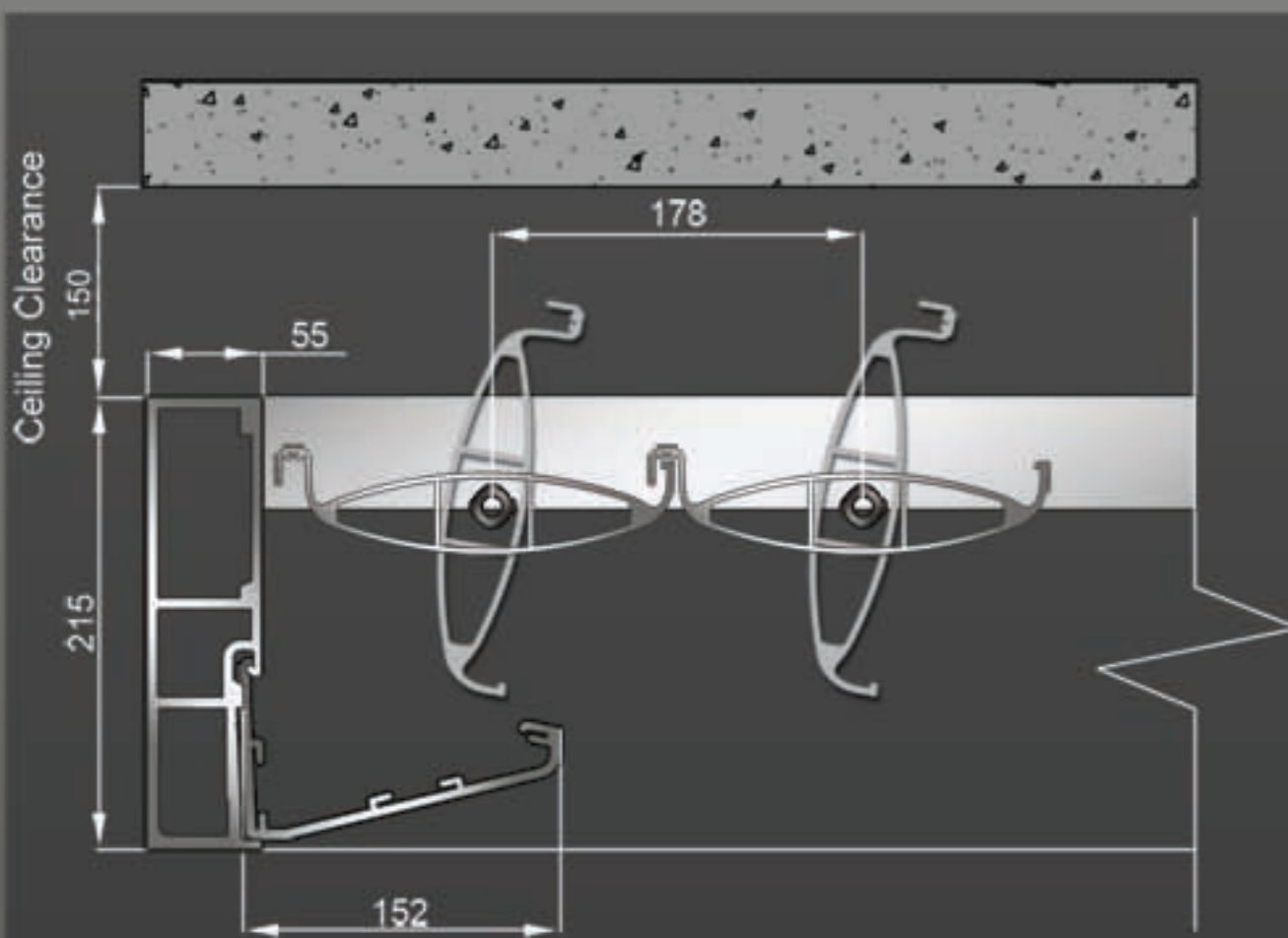
BEAM WIDTH	55 MM
BEAM HEIGHT	215 MM
BEAM FINISHINGS	POWDER COATING NATURAL ANODISING

DESIGN PARAMETERS FOR BLADE SPANS :

- Height of Building < 10m
- Roofs fixed to existing Building
- Drag has been ignored
- Ratio of width to length of the frame does not exceed 5:1
- Wind zones exceeding extremely high, specific engineering design is required
- Snow loads have not been covered below, will require specific design
- Design of the Blade Louvres are based on a maximum deflection limit of span/100

BEAM (OR FRAME) SPANS REFERENCE	WIND ZONES WIND SPEED , m / s - km/h				
	LOW	MEDIUM	HIGH	VERY HIGH	EXTREMELY HIGH
BLADE SPAN , mm	32 m/s - 115 km/h	37 m/s- 133 km/h	44 m/s- 158 km/h	50 m/s- 179 km/h	55 m/s- 198 km/h
1000 mm	7750 mm	7100 mm	6000 mm	5500 mm	5200 mm
1500 mm	6800 mm	6100 mm	5250 mm	4800 mm	4400 mm
2000 mm	6150 mm	5550 mm	4750 mm	4250 mm	3850 mm
2500 mm	5700 mm	5150 mm	4300 mm	3800 mm	3450 mm
3000 mm	5400 mm	4700 mm	3950 mm	3500 mm	3150 mm
3500 mm	5050 mm	4350 mm	3700 mm	3250 mm	3000 mm
4000 mm	4750 mm	4100 mm	3450 mm		
4500 mm	4300 mm	3900 mm			

: Factors such as climate , terrain , structure , shielding , location and other factors all contribute to determine spans.



HOW TO CALCULATE MAXIMUM FRAME LENGTH, MM AND NUMBER OF BLADES PER PANEL

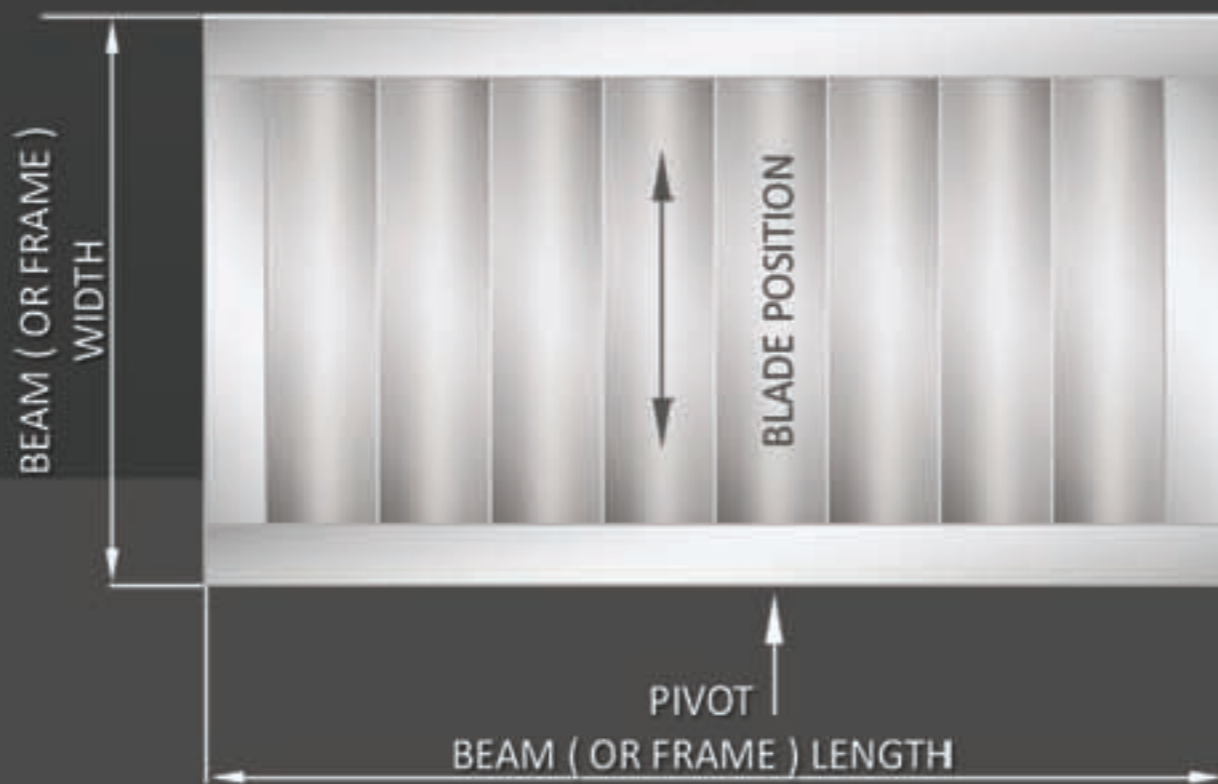
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 STEP 4 : TOTAL ACTUAL MAXIMUM LENGTH OF FRAME
 [(27 - 1) x 178mm Pitch] + 320mm = 4948 mm

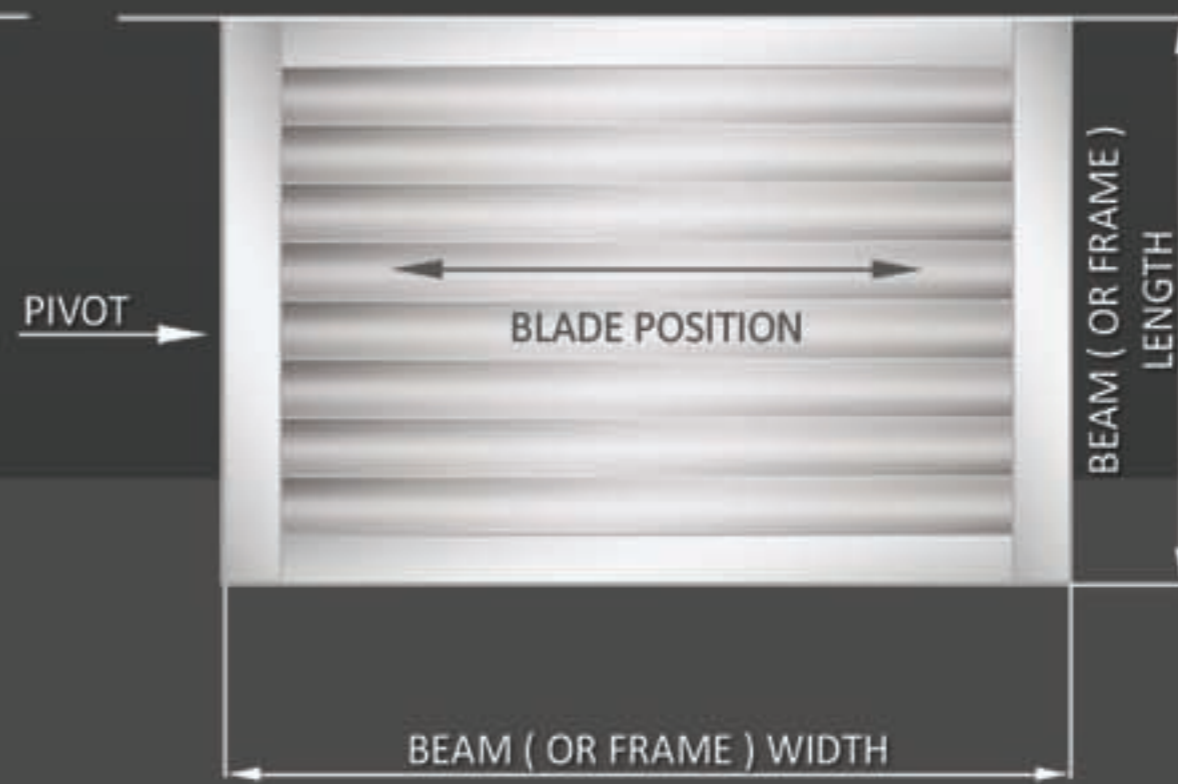
THEREFORE :
 FINAL FRAME LENGTH = 4948mm
 FINAL BLADE QUANTITY = 27 pcs.

Note : Refer to "Number of Blades Vs.Beam Length Table "

ROOF TYPE A : HOUSE

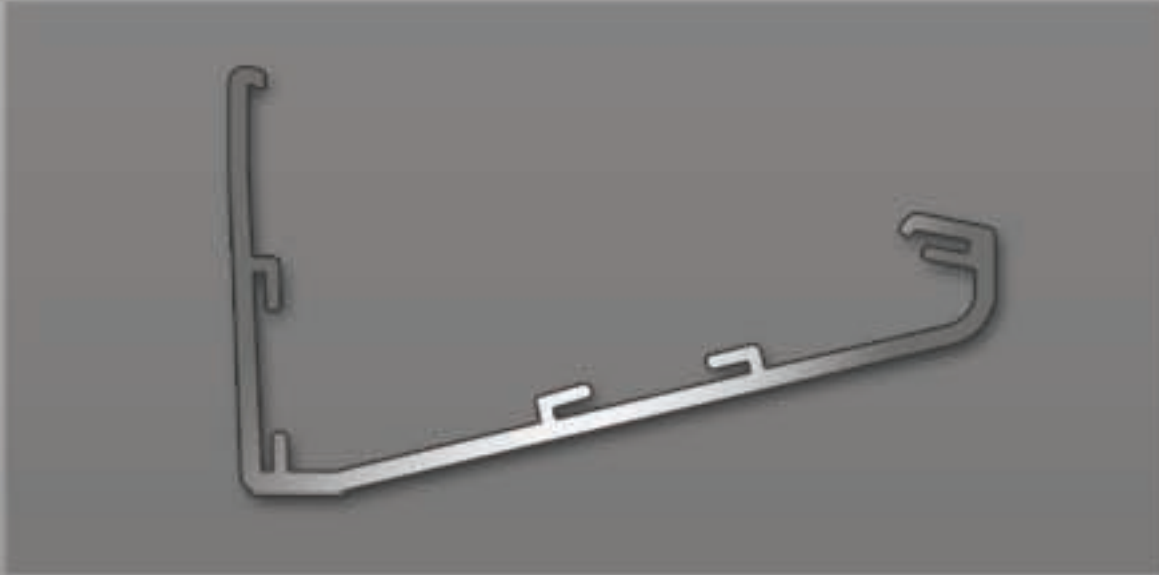


ROOF TYPE B : HOUSE



YERO GUTTER 152

GUTTER WIDTH	152 MM
GUTTER FINISHINGS	POWDER COATING NATURAL ANODISING

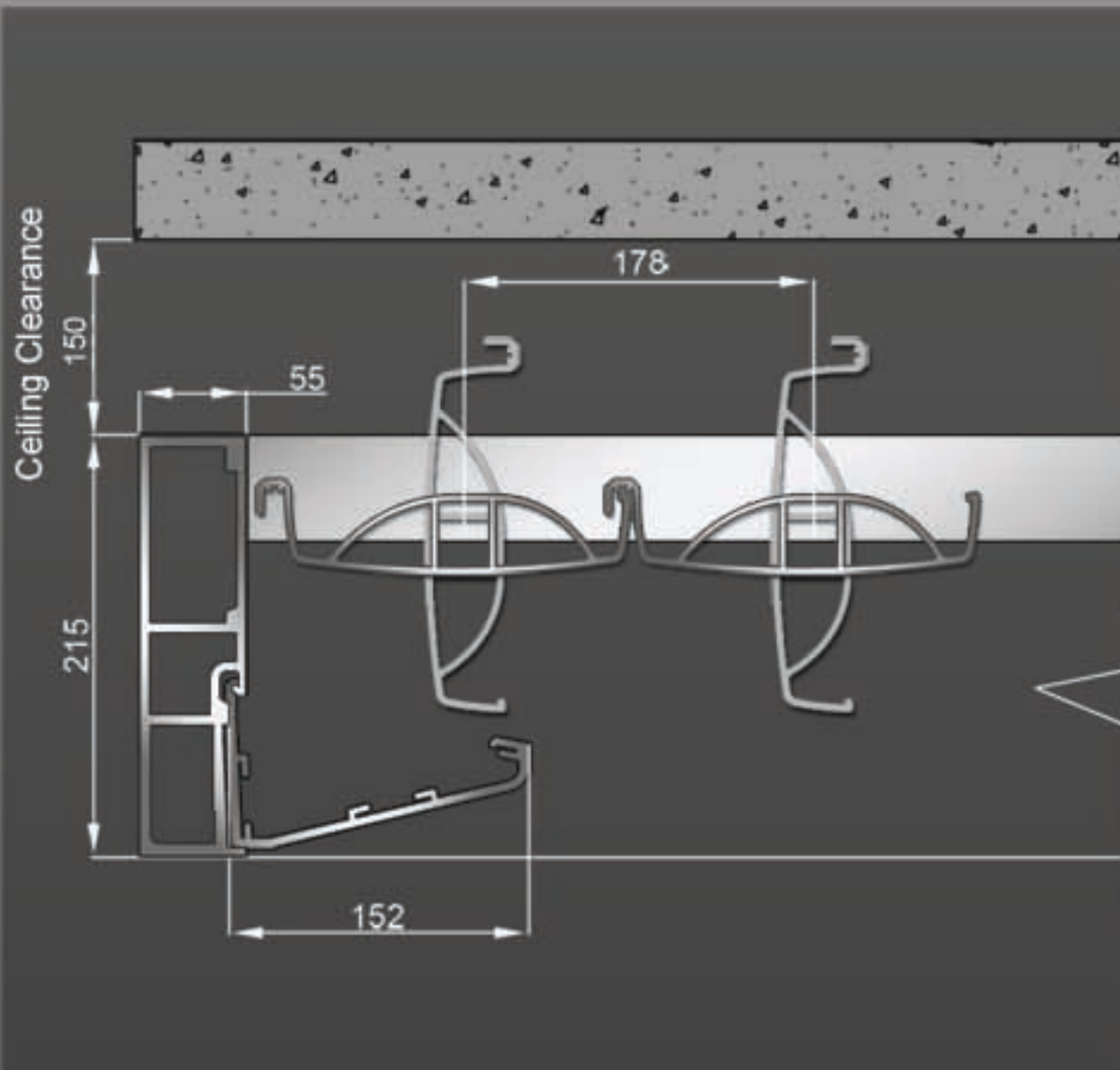


DESIGN PARAMETERS FOR BLADE SPANS :

- Height of Building < 10m
- Roofs fixed to existing Building
- Drag has been ignored
- Ratio of width to length of the frame does not exceed 5:1
- Wind zones exceeding extremely high, specific engineering design is required
- Snow loads have not been covered below, will require specific design
- Design of the Blade Louvres are based on a maximum deflection limit of span/40

GUTTER SPANS IN ACCORDANCE TO THE BEAM LENGTH

GUTTER LENGTH FOLLOWS THE BEAM OR FRAME LENGTH



HOW TO CALCULATE MAXIMUM FRAME LENGTH, MM AND NUMBER OF BLADES PER PANEL

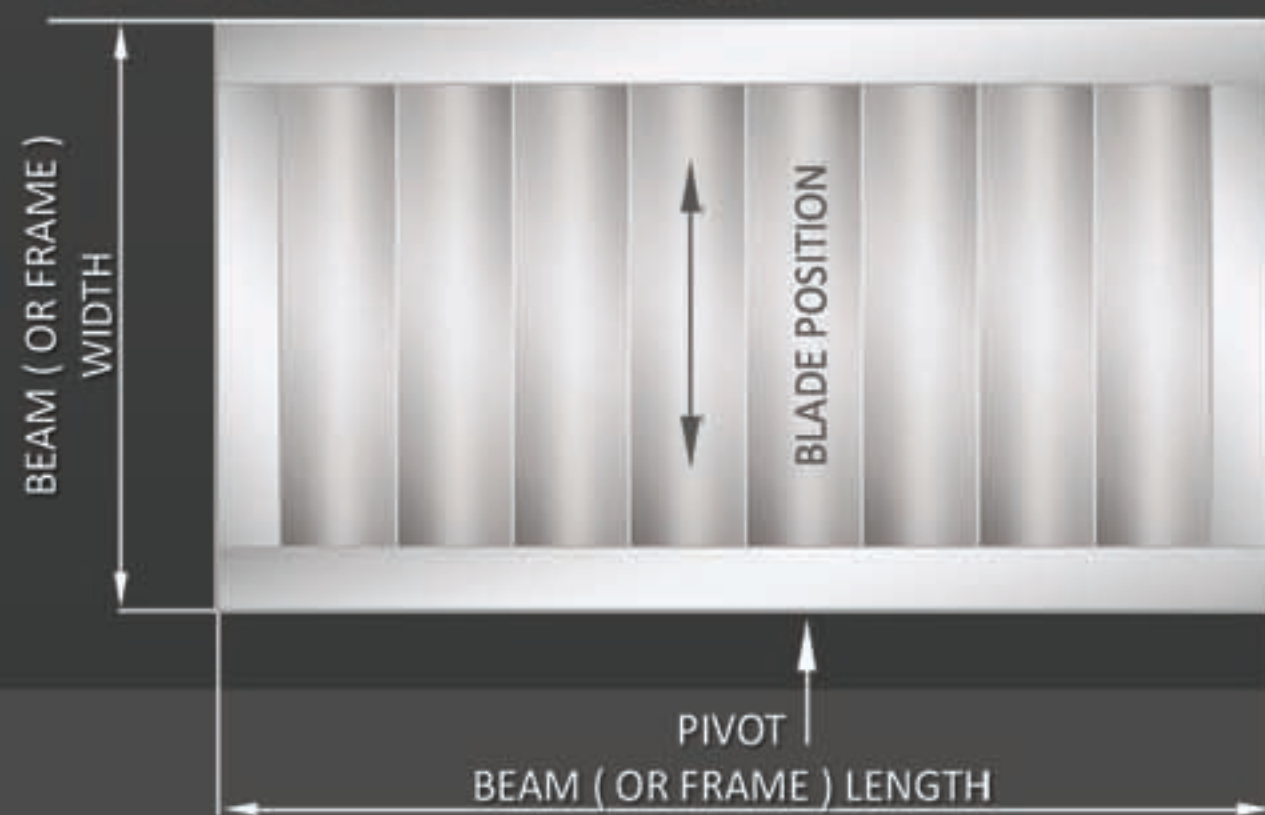
EXAMPLE : APPROXIMATE LENGTH = 5000 mm

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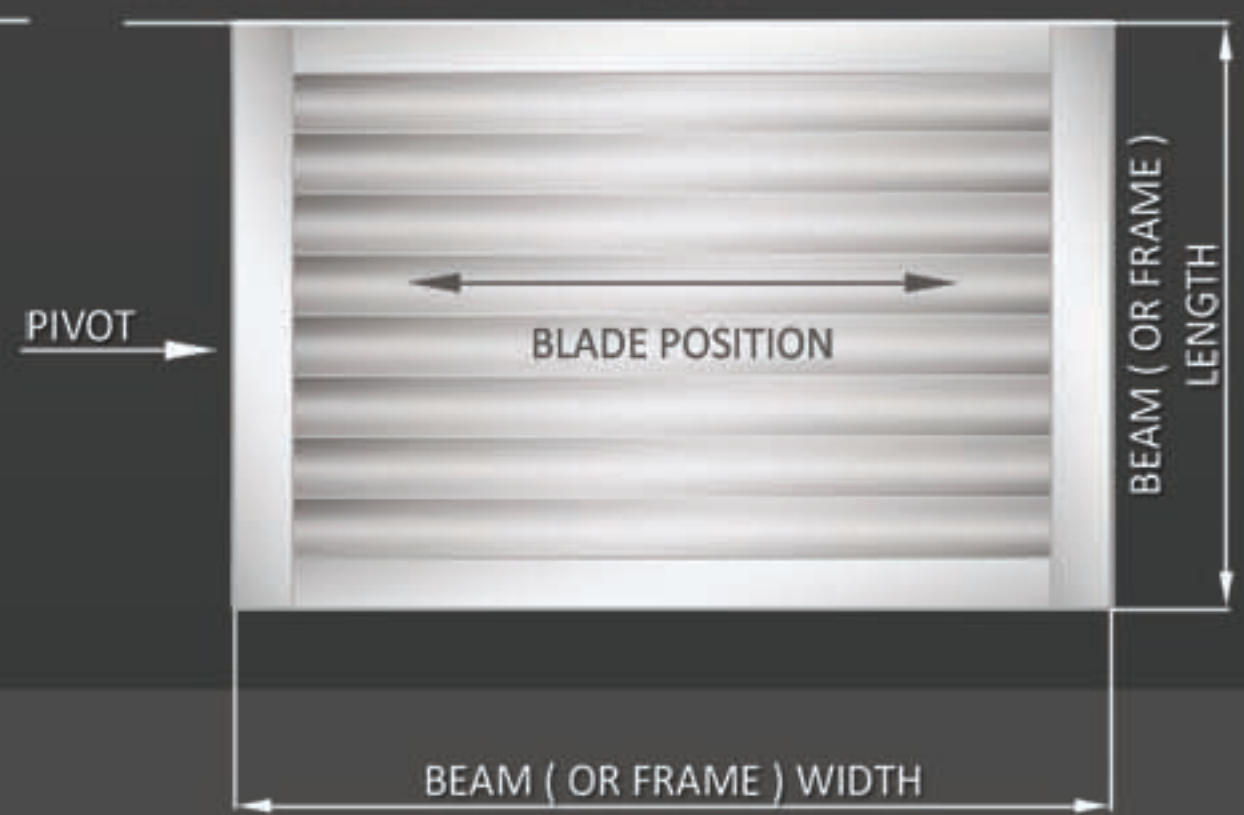
THEREFORE :
FINAL FRAME LENGTH = 4948mm
FINAL BLADE QUANTITY = 27 pcs.

Note: Refer to "Number of Blades Vs. Beam Length Table"

ROOF TYPE A : HOUSE



ROOF TYPE B : HOUSE



*Yero Roof - BUILT FOR ITS PURPOSE
ANOTHER PURE SHUTTER INNOVATION*



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