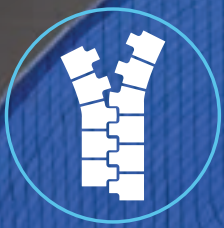


OMBRA EXTERNAL AWNINGS



Product Manual



Z-LOCK™ TECHNOLOGY

inspired spaces

> 1800 007 321

> apollopatios.com.au

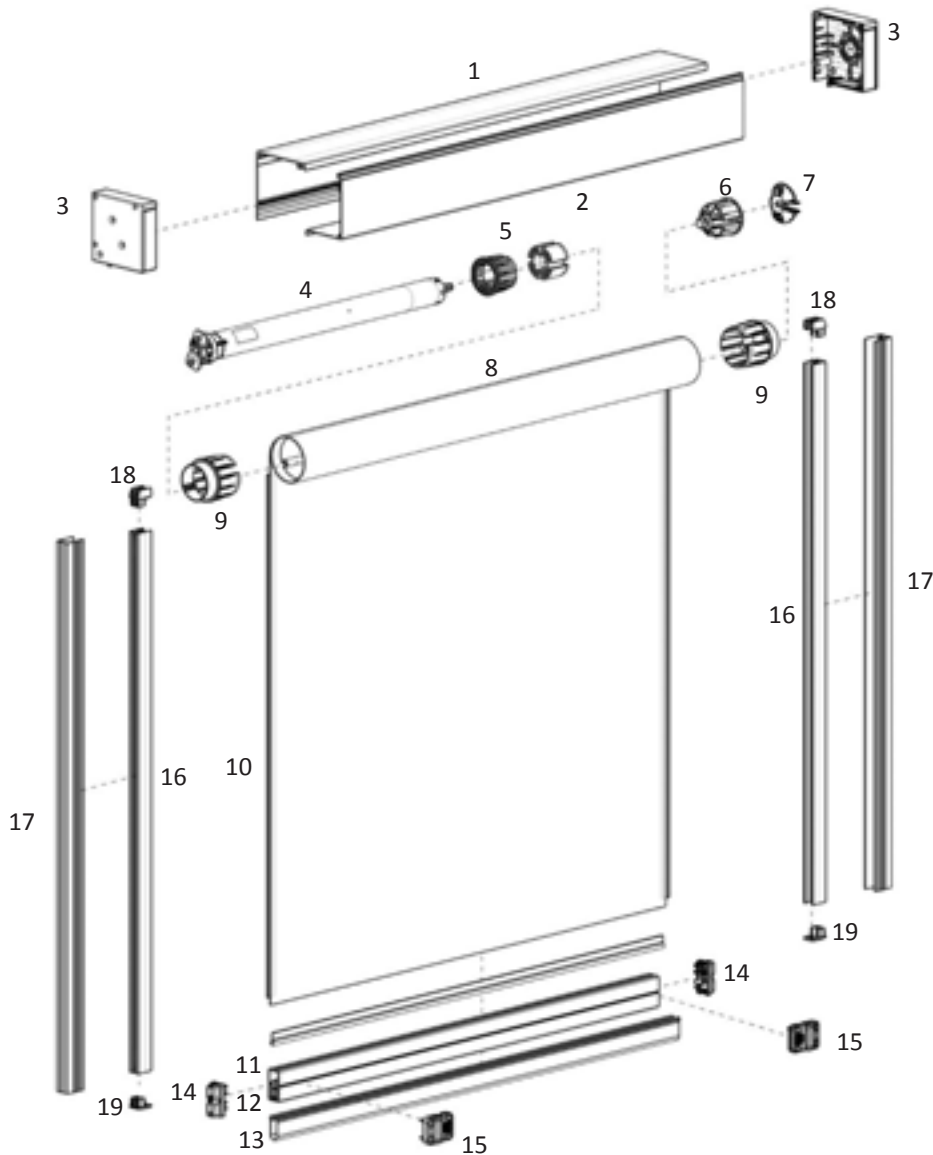


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1. GENERAL SCHEMATICS |

ZIP SCREENS

The Zipscreen system offers the most options and flexibility for all applications. The perfect solution for outdoor entertainment areas in both commercial and residential settings, the system is designed to permanently secure fabric in its side channels providing the benefits of wind and insect protection, light/UV block out and noise reduction.



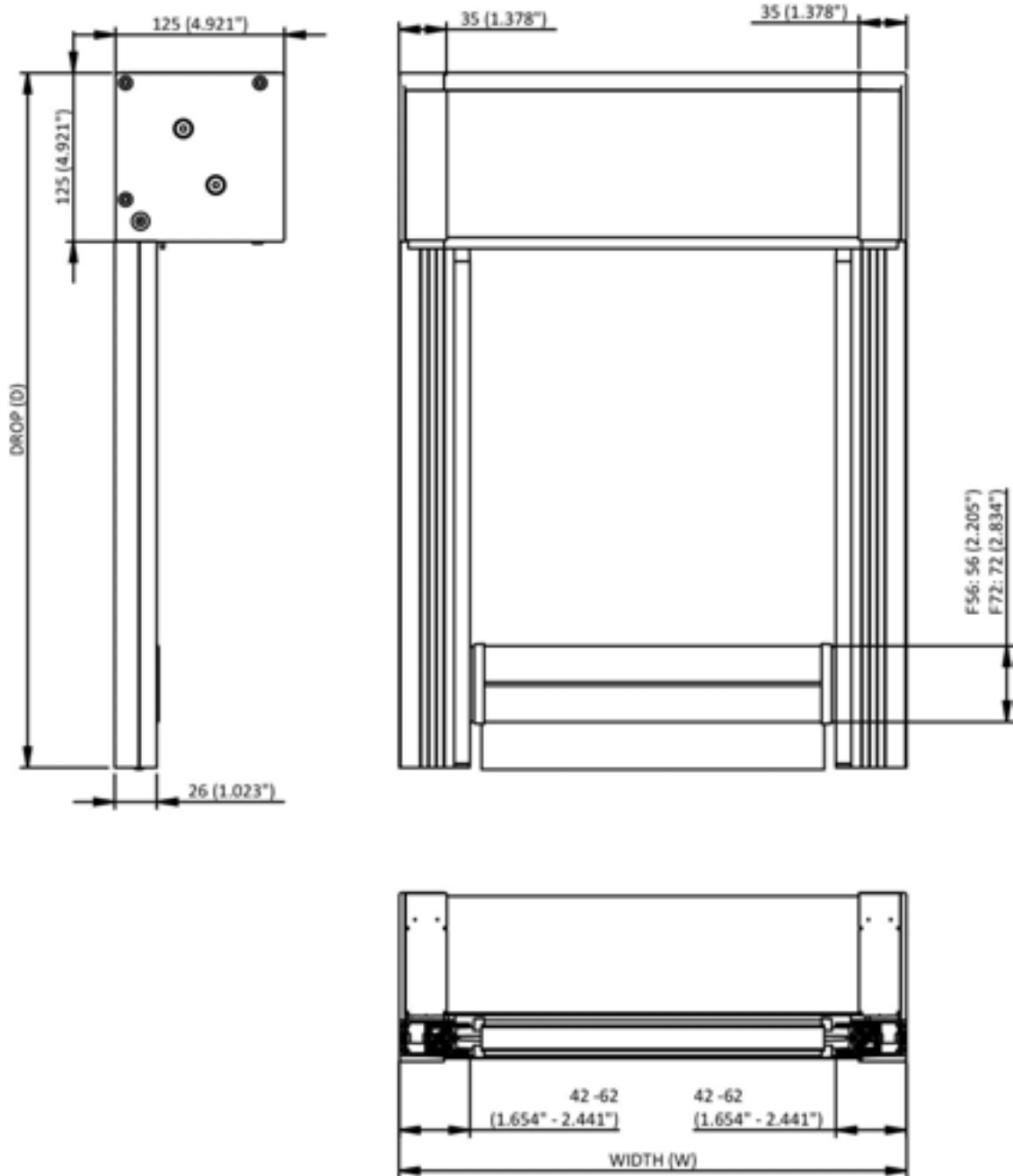
Note: This configuration is primarily shown throughout the manual

SYSTEM INDEX – ZIPSCREEN, BOX 120, MOTOR, F56 WEIGHT BAR, ULTRA LOCK

- | | | | |
|----|--------------------------------|-----|---|
| 1. | Box 120 Back | 10. | Zip No.6 Gauge |
| 2. | Box 120 Full Cover | 11. | 7.2mm Tail Spline |
| 3. | Box 120 End Plate Set + Screws | 12. | F56 Weight Bar |
| 4. | Automate FT S60 EL Motor | 13. | Ultra-Lock Seal |
| 5. | 78mm Drive | 14. | Zipscreen Weight Bar End Cap Set + Screws |
| 6. | 63mm Bearing Idler | 15. | Zipscreen Ultra-Lock Set + Screws |
| 7. | Idler/Spring Adaptor | 16. | Zipscreen Zip Inner Rail |
| 8. | 78mm Tube – Aluminium & Steel | 17. | Zipscreen U Mounting Rail |
| 9. | Zipscreen Reducer 78 63mm | 18. | Zipscreen Inner Rail Funnel & Stop |
| | | 19. | Zipscreen Inner Rail Bottom Cap |

ZIP SCREENS

ZIPSCREEN BOX - SIDE FIX

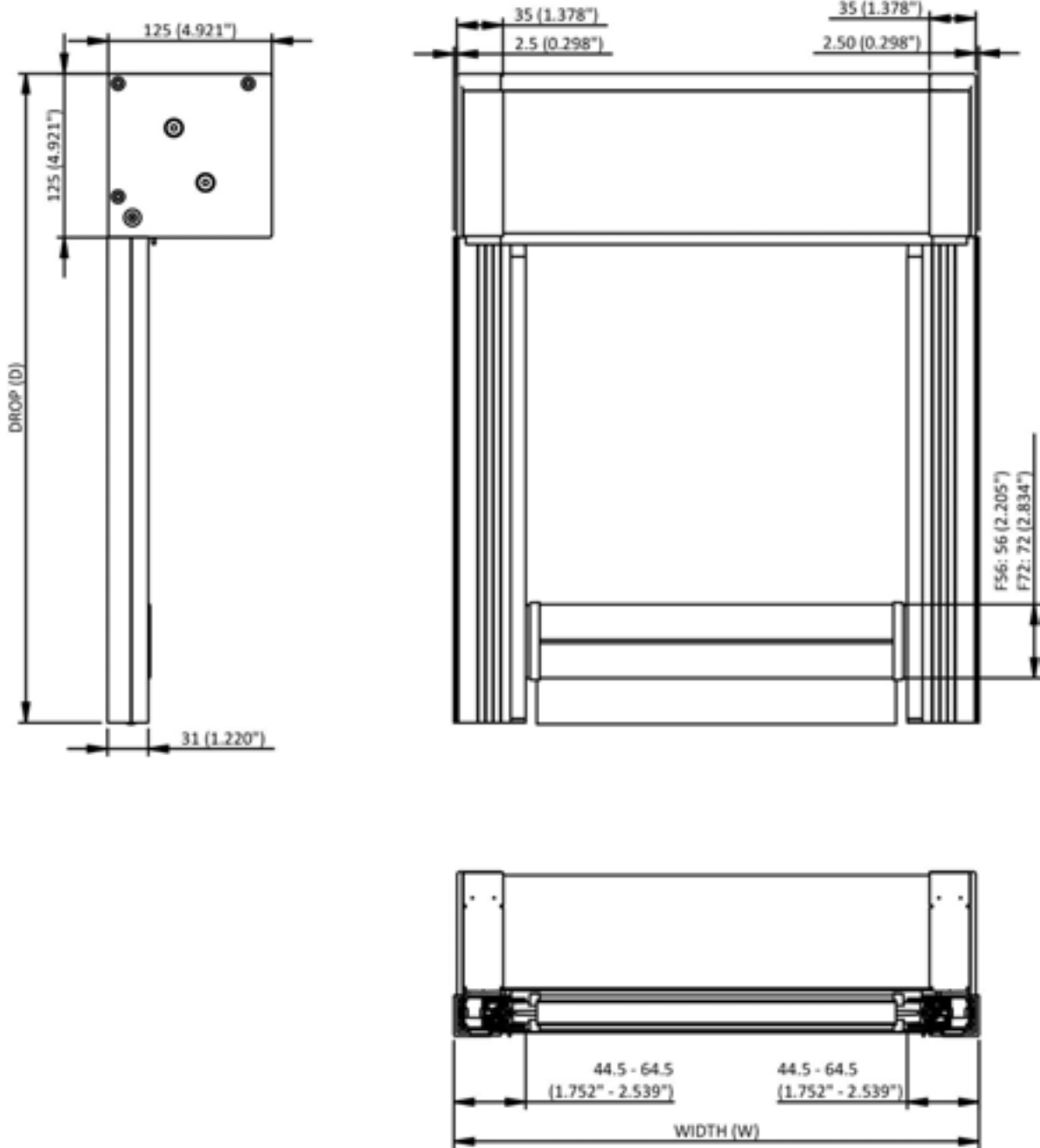


Filename: Arch Specs ZIPSCREEN

ZIP SCREENS

ZIP SCREEN | STRAIGHT DROP | WIRE GUIDE

ZIPSCREEN BOX - FACE FIX

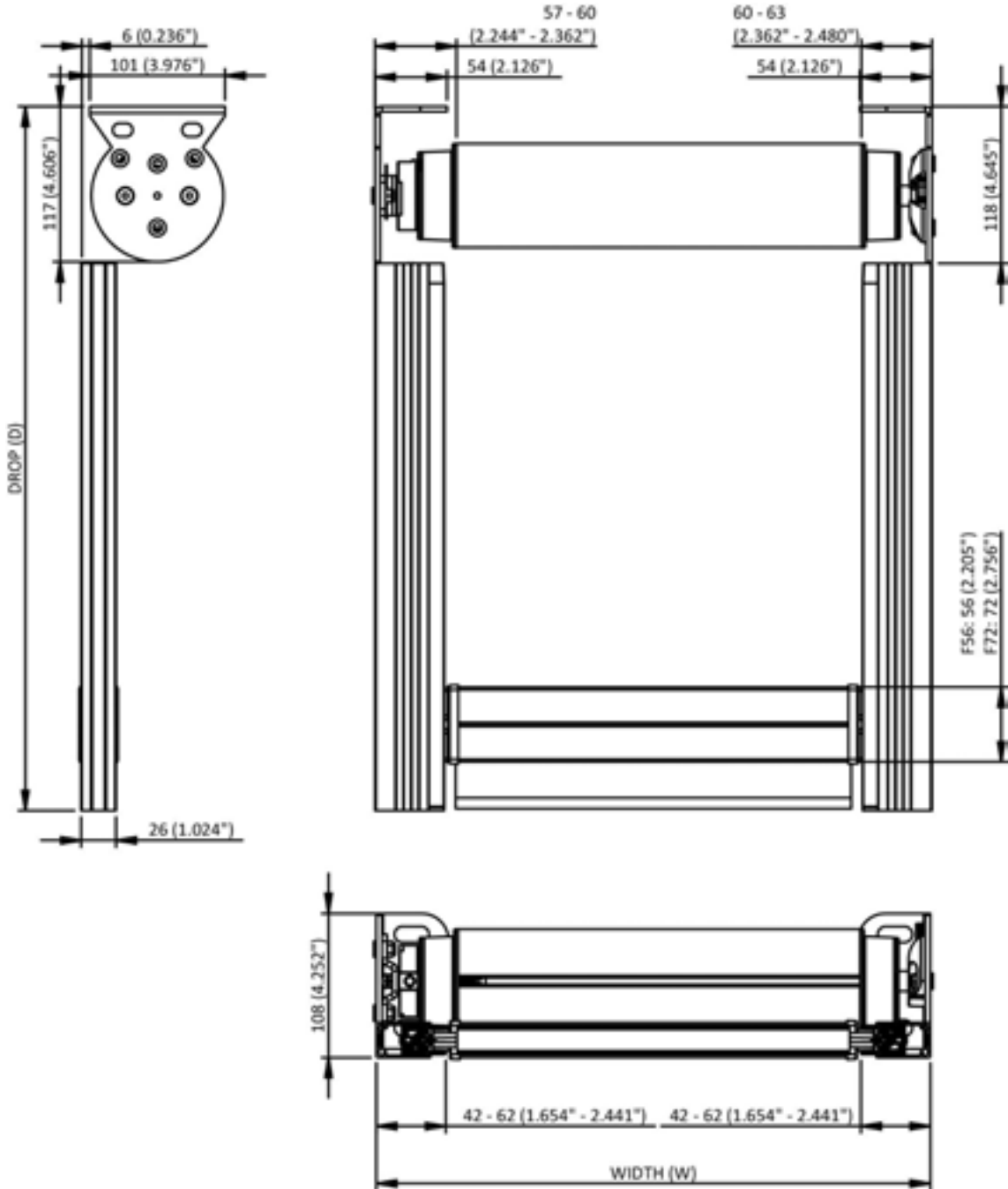


Filename: Arch Specs ZIPSCREEN

ZIP SCREENS

ZIP SCREEN | STRAIGHT DROP | WIRE GUIDE

ZIPSCREEN OPEN BLIND - SIDE FIX



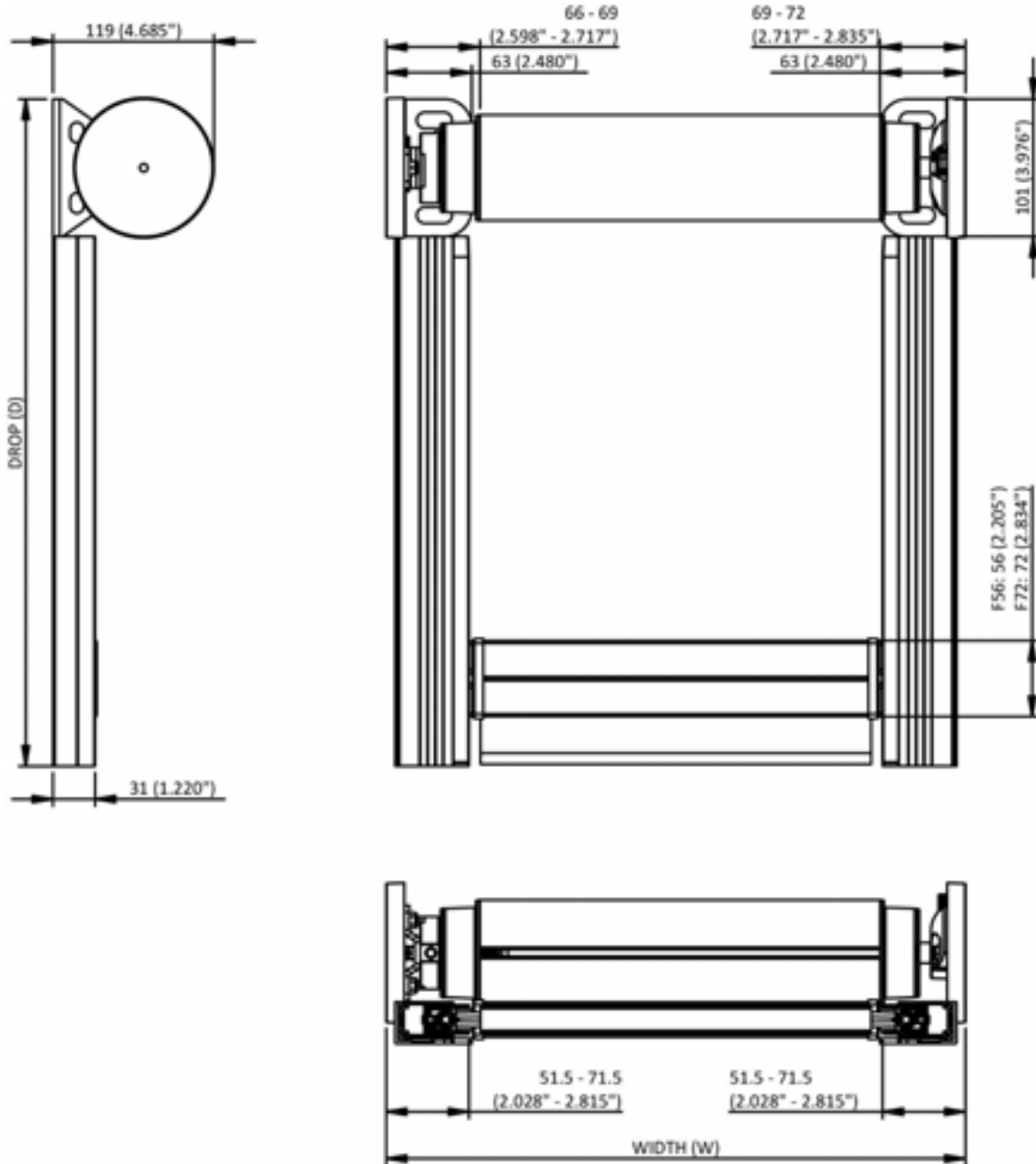
NOTE: Side Fix installation assumes no 'Bracket Covers' are used, for deductions with 'Bracket Covers' refer to next image

Filename: Arch Specs ZIPSCREEN

ZIP SCREENS

ZIP SCREEN | STRAIGHT DROP | WIRE GUIDE

ZIPSCREEN OPEN BLIND - FACE FIX

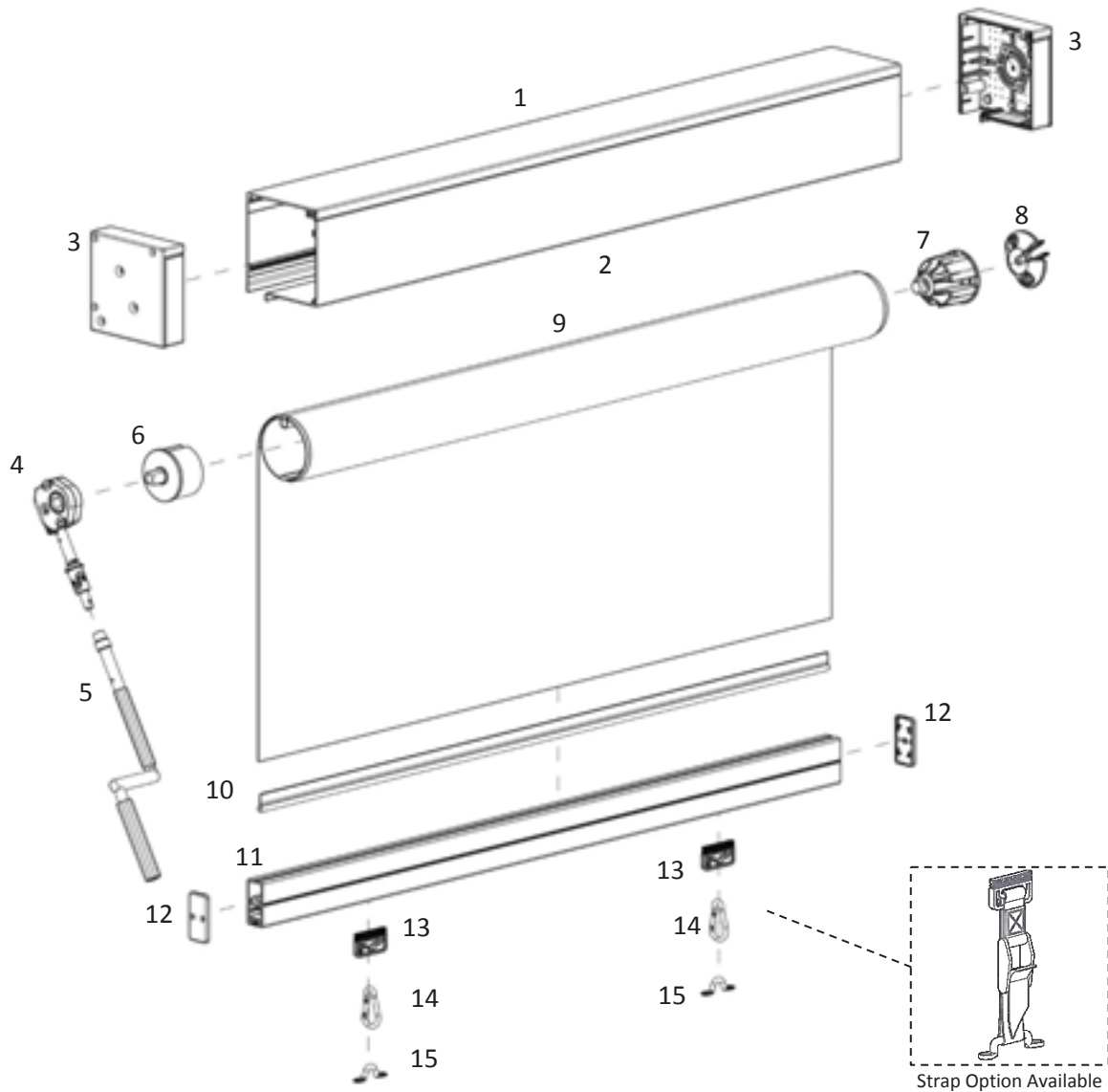


Filename: Arch Specs ZIPSCREEN

1. GENERAL SCHEMATICS |

STRAIGHT DROP

STRAIGHT DROP



Strap Option Available

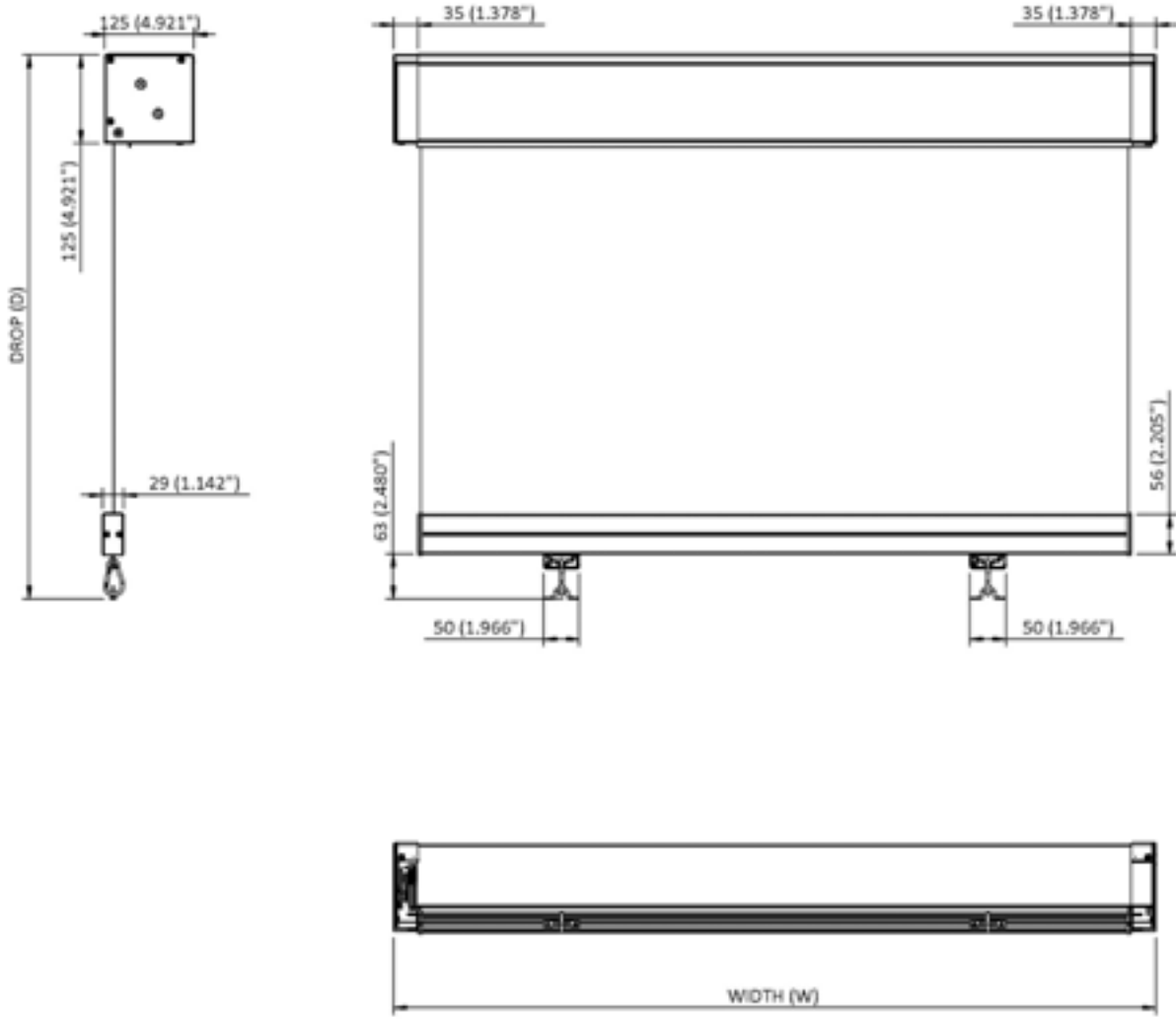
SYSTEM INDEX – STRAIGHT DROP, BOX 120, GEAR, F56 WEIGHT BAR

1.	Box 120 Back	9.	Tube - 63mm AL & STEEL, 78mm AL & STEEL
2.	Box 120 Cover	10.	7.2mm Tail Spline
3.	Box 120 End Plate Set + Screws	11.	F56 Weight Bar
4.	Gear 5:1	12.	F56 Weight Bar Plain End Cap
5.	Crank Control Arm	13.	25mm Strap Down Loop
6.	Crank Adaptor - 63mm & 78mm Tube	14.	Strap Down Spring Clip – 50mm
7.	Idler - 63mm	15.	Strap Down Pad Eye Saddle – 30mm
8.	Idler/Spring Adaptor		

STRAIGHT DROP

ZIP SCREEN | STRAIGHT DROP | WIRE GUIDE

STARIGHT DROP - BOX

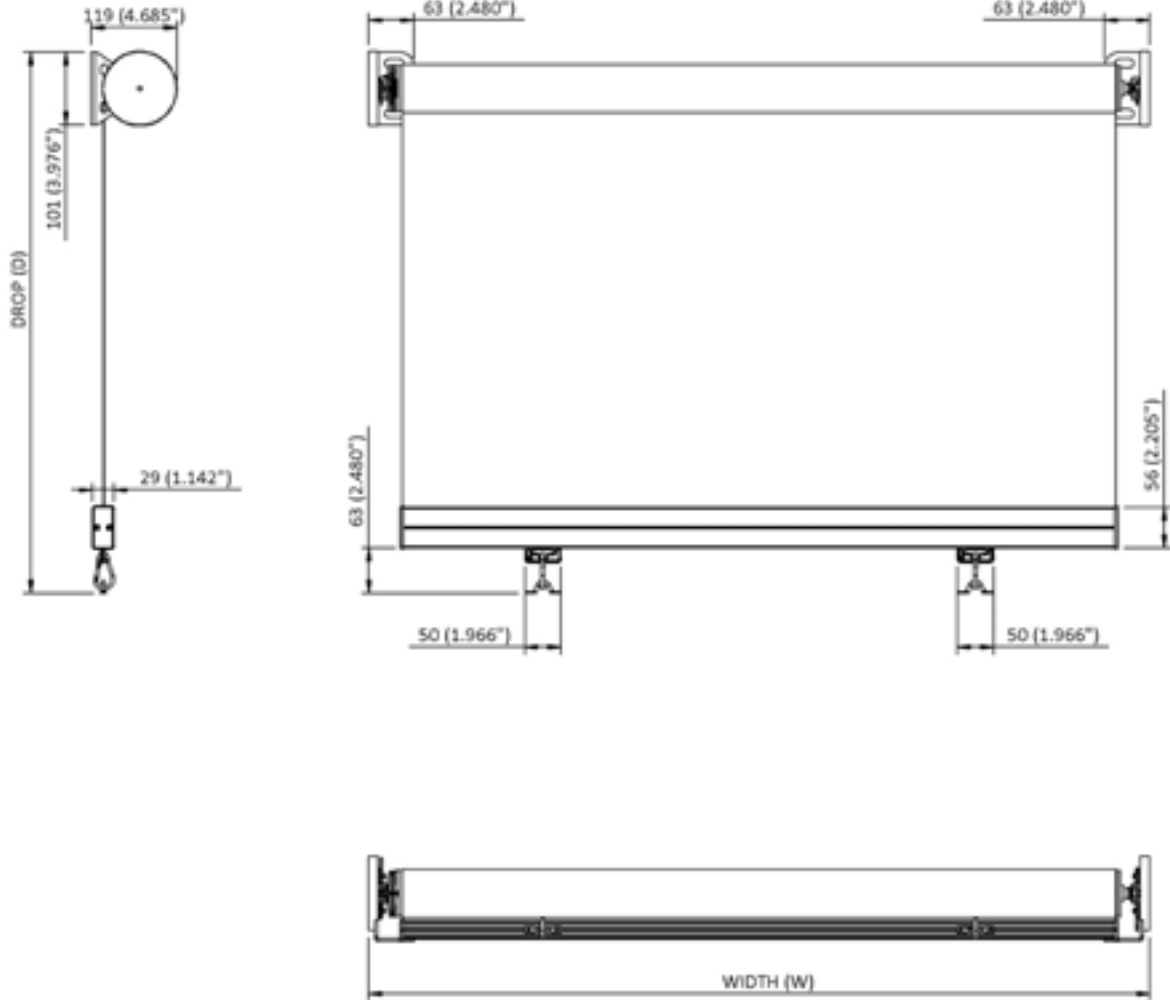


Filename: Arch Specs Strap Down

STRAIGHT DROP

ZIP SCREEN | STRAIGHT DROP | WIRE GUIDE

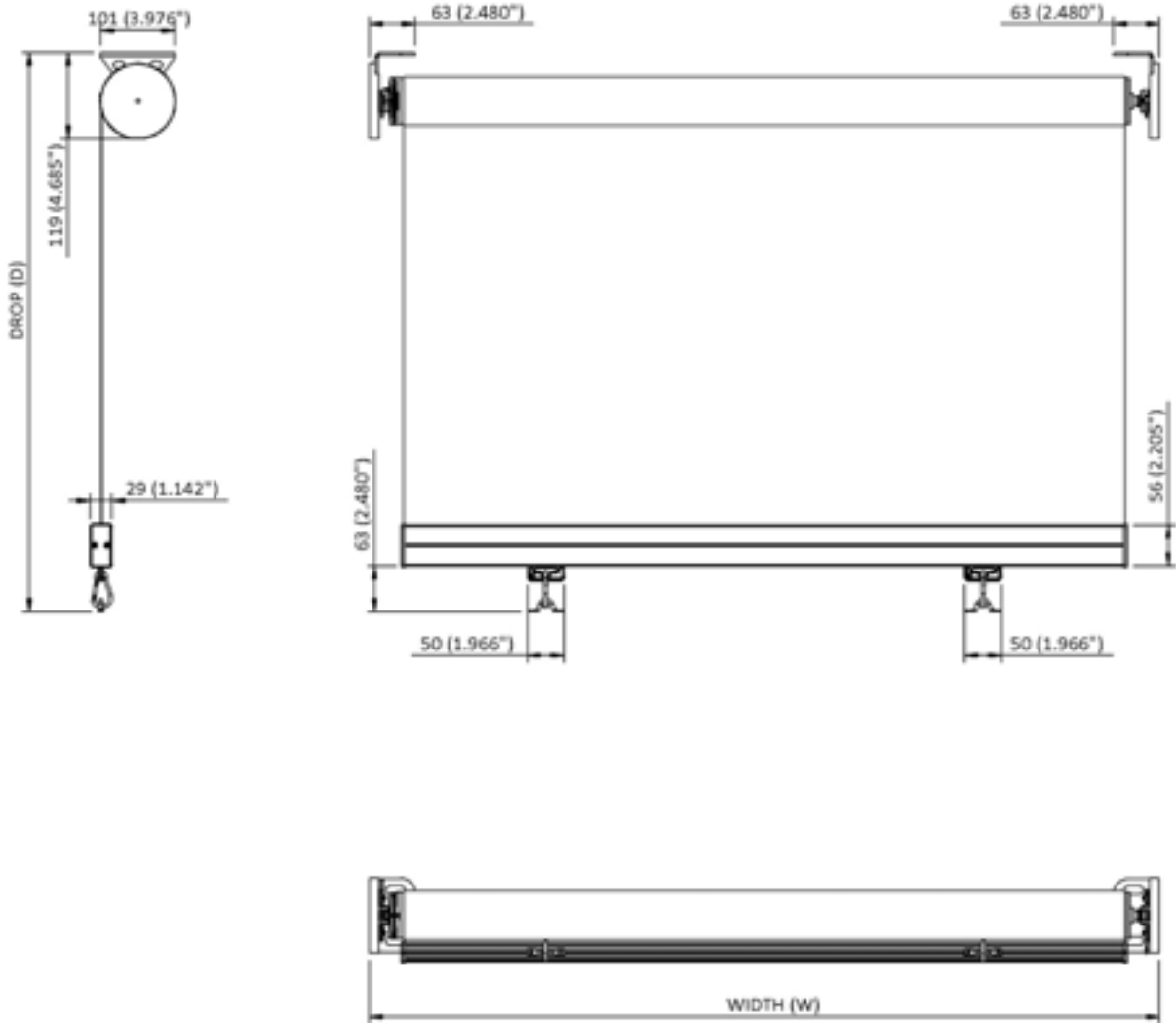
STRAIGHT DROP – OPEN BLIND: FACE FIX



Filename: Arch Specs Strap Down

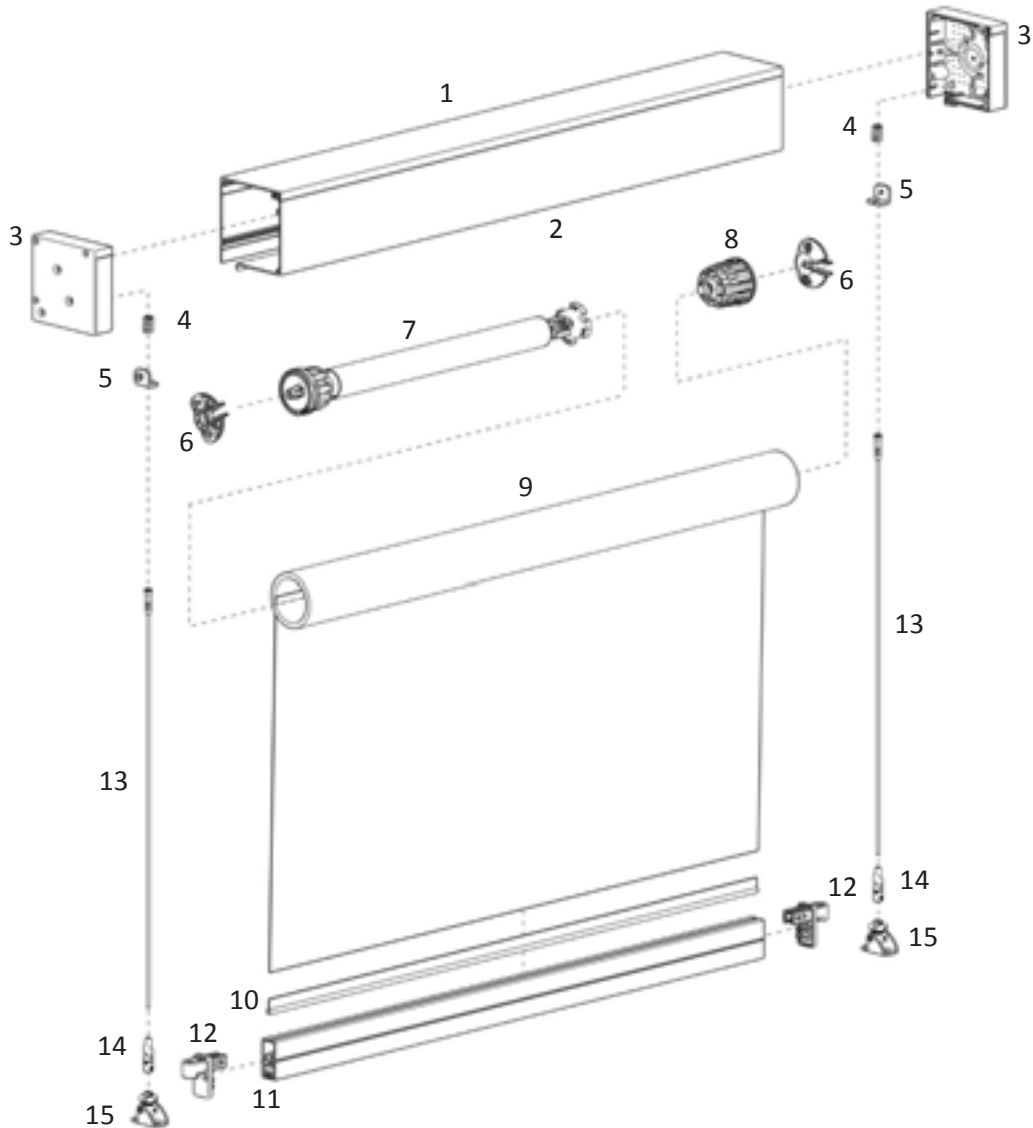
STRAIGHT DROP

STRAIGHT DROP – OPEN BLIND: TOP FIX



1. GENERAL SCHEMATICS |

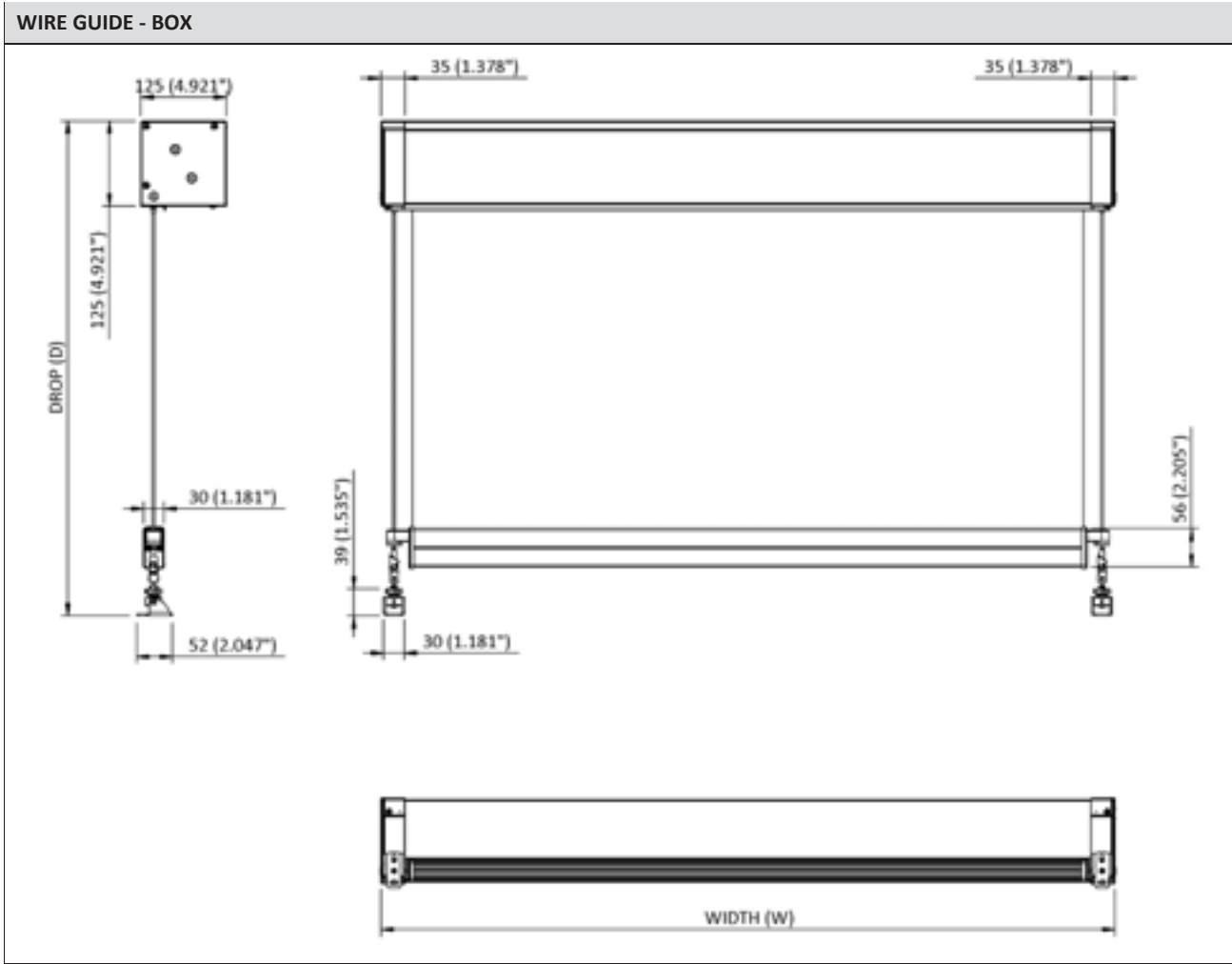
WIRE GUIDE



SYSTEM INDEX – WIRE GUIDE, BOX 120, SPRING, F56 WEIGHT BAR, WIRE GUIDE ULTRA-LOCK

- | | | | |
|----|--------------------------------|-----|---|
| 1. | Box 120 Back | 9. | Tube - 63mm AL & STEEL, 78mm AL & STEEL |
| 2. | Box 120 Cover | 10. | 7.2mm Tail Spline |
| 3. | Box 120 End Plate Set + Screws | 11. | F56 Weight Bar |
| 4. | Wire Tensioning Spring | 12. | Wire Guide F56 Weight Bar End Cap Set +Screws |
| 5. | Wire Rope Top Bracket | 13. | Swaged Dome Stud Terminal + 4.2m Wire |
| 6. | Idler/Spring Adaptor | 14. | Wire Guide Auto Lock |
| 7. | External Booster LH 63mm | 15. | Bottom Wire Guide Swivel Bracket |
| 8. | Idler – 63mm | | |

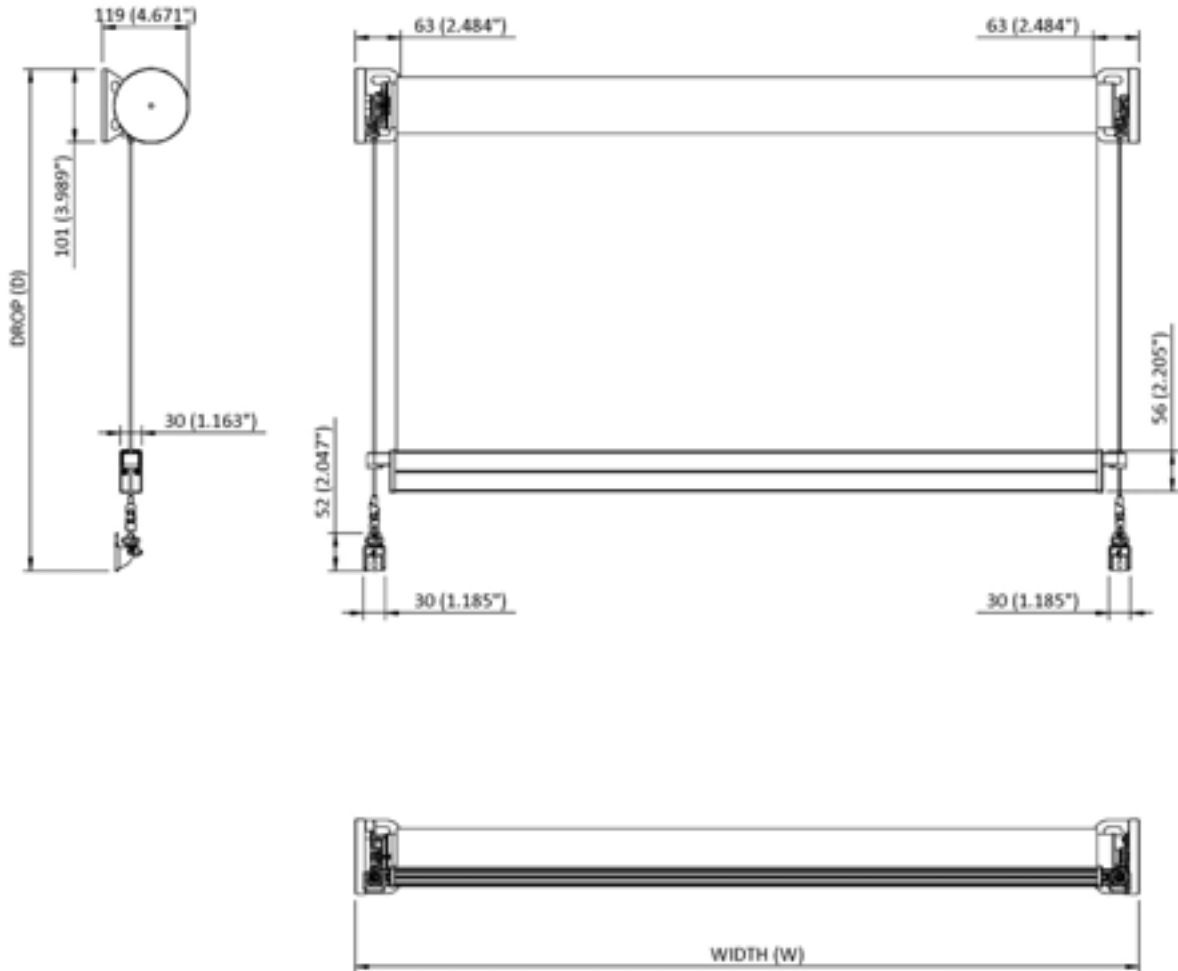
WIRE GUIDE



Filename: Arch Specs Wire Guide

WIRE GUIDE

WIRE GUIDE - OPEN BLIND: FACE FIX



Filename: Arch Specs Wire Guide

2. SYSTEM OPTIONS |

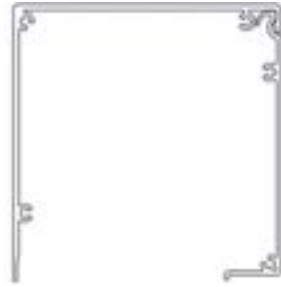
ZIP SCREEN STRAIGHT DROP WIRE GUIDE

INSTALLATION OPTIONS

BOX | Full



BOX | Semi



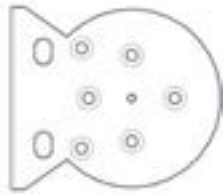
FASCIA | Full



FASCIA | Semi



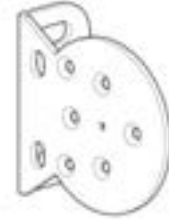
OPEN BLIND



OPEN | With Covers



OPEN | Without Cover



CONTROL OPTIONS

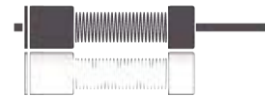
MOTOR



GEAR



SPRING



WEIGHT BAR OPTIONS

F56

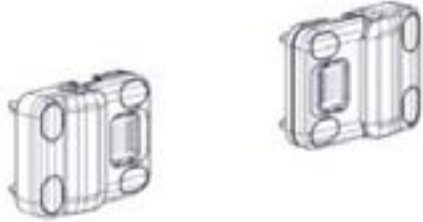


F72

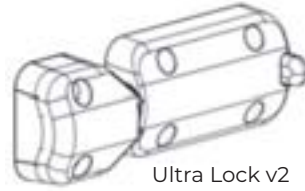


LOCK OPTIONS

RE15



SB07



IDLER OPTIONS

63mm STANDARD IDLER



63mm BEARING IDLER



TUBE OPTIONS

78 | ALUMINIUM

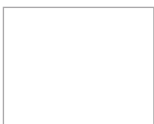


78 | STEEL



Ombra Aluminium Colour Range

ZIP SCREEN | STRAIGHT DROP | WIRE GUIDE



WHITE



BLACK



MONUMENT



CUSTOM

STRAIGHT DROP | WIRE GUIDE |

SYSTEM OPTIONS

			SYSTEM				
			STRAP DOWN	WIRE GUIDE	CHANNEL	PIVOT	ZIPSCREEN
INSTALLATION OPTIONS	BOX Full		✓	✓	✓		✓
	BOX Semi		✓	✓	✓	✓	✓
	FASCIA Full		✓	✓	✓		✓
	FASCIA Semi		✓	✓	✓	✓	✓
	OPEN BLIND		✓	✓	✓	✓	✓
CONTROL OPTIONS	MOTOR		✓	✓	✓	✓	✓
	GEAR		✓	✓	✓	✓	✓
	SPRING			✓	✓		✓
IDLER OPTIONS	STANDARD IDLER		✓	✓	✓	✓	✓
	BEARING IDLER		✓	✓	✓	✓	✓
TUBE OPTIONS	63 AL. / STEEL		✓	✓	✓	✓	
	78 AL. / STEEL		✓	✓	✓	✓	✓
WEIGHT BAR OPTIONS	F56		✓	✓	✓		✓
	HD HEM						✓
	PIVOT ARM					✓	
LOCK OPTIONS	TIE DOWN		✓	✓			
	ULTRA LOCK			✓			✓
	SB07				✓		✓

Note:

- Motor cannot be used with 63mm Steel Tube
- Motor Control is not recommended with Wire Guide Ultra-Locks
- For 78mm Tube the 78mm Tube Adaptor (RE01-0701-050078) is required

Ombra Aluminium Colour Range

ZIP SCREEN | STRAIGHT DROP | WIRE GUIDE

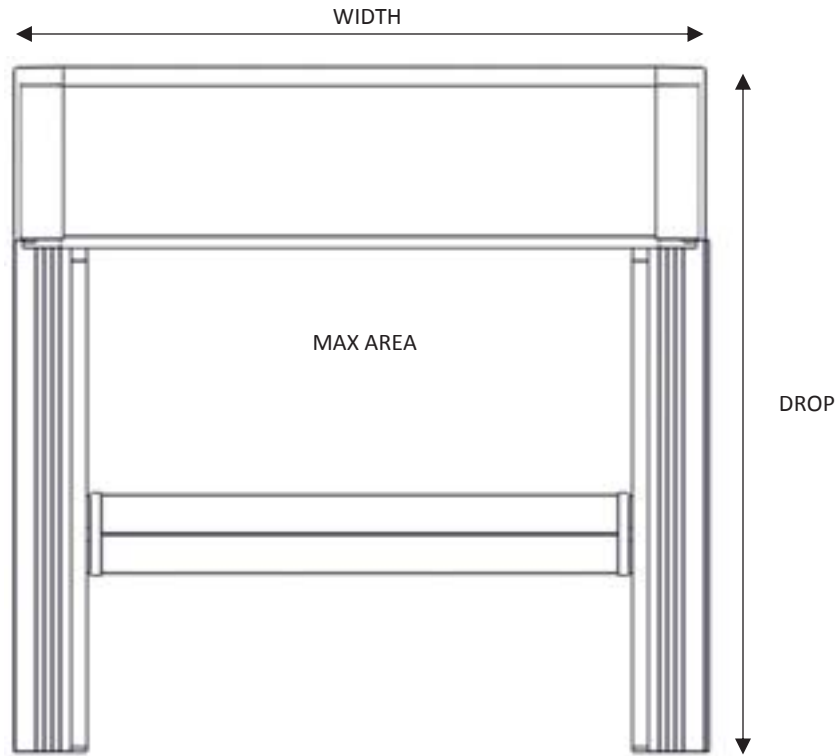


3. SYSTEM SPECIFICATIONS |

ZIP SCREEN

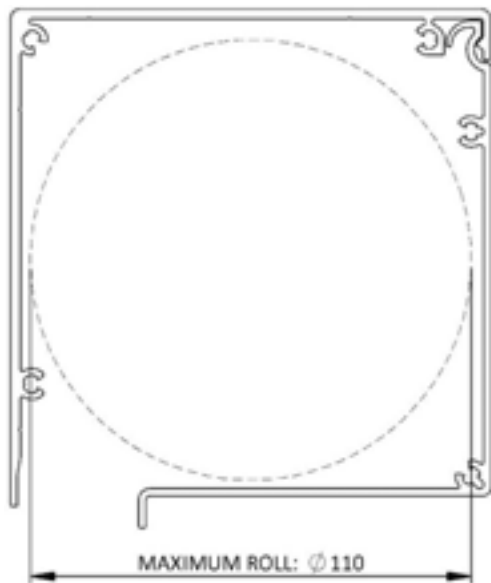
ZIP SCREEN

PART A – CONSTRAINTS



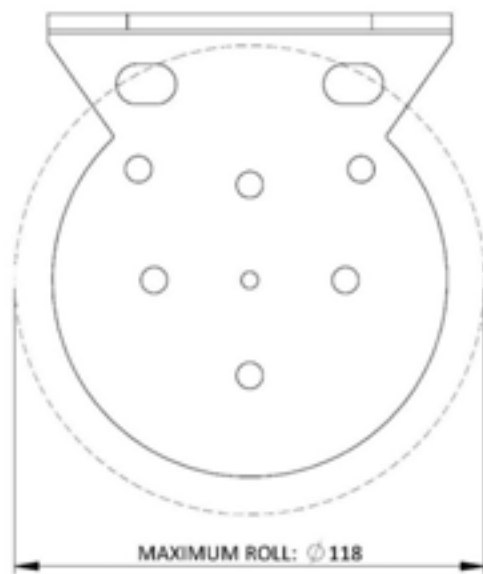
	WIDTH	DROP	MAX AREA
ZIPSCREEN	5m (16ft)	4m (13ft)	12m ² (208ft ²)

BOX



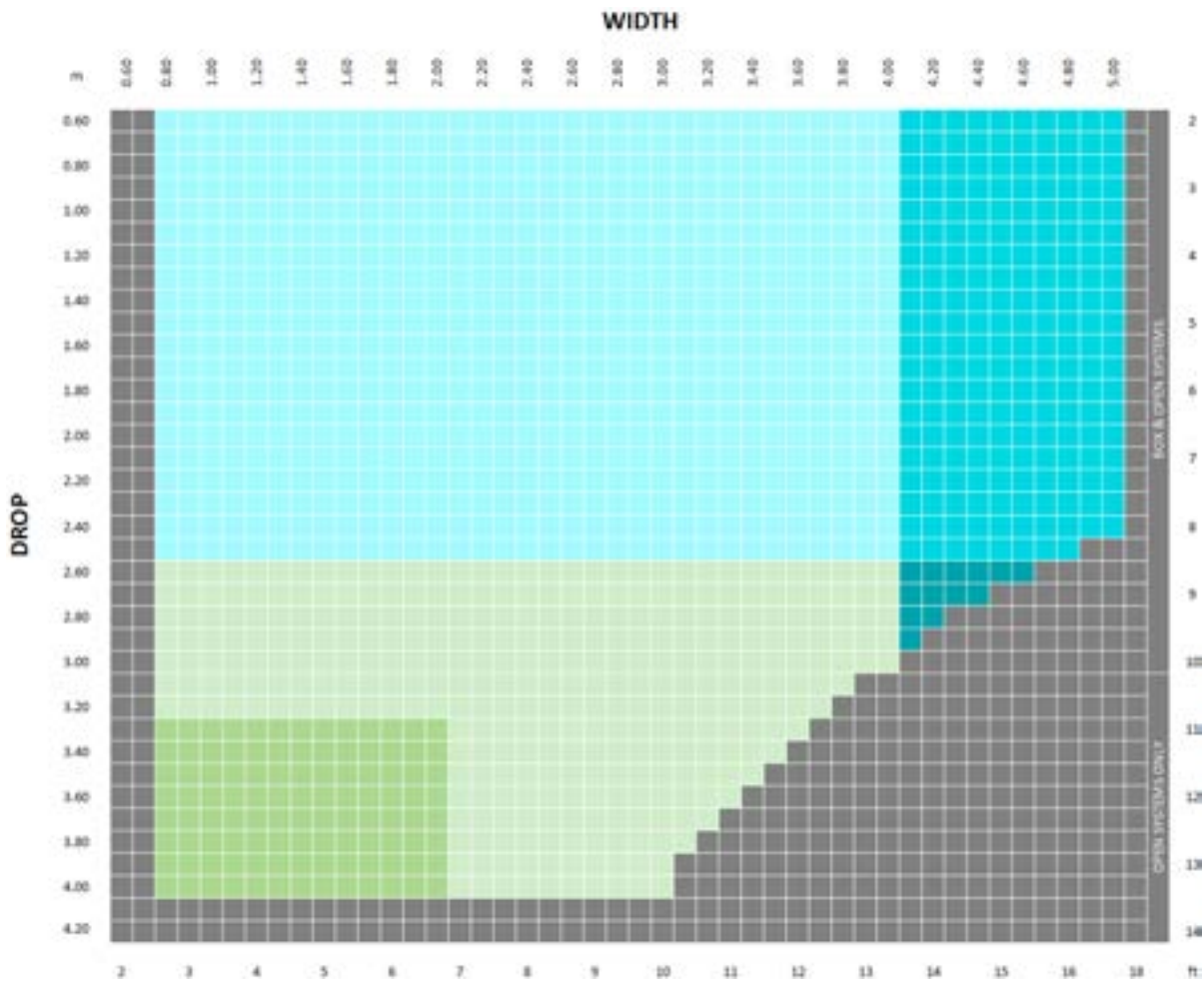
MAXIMUM DROP = 3m (10ft)

OPEN BLIND



MAXIMUM DROP = 4m (13ft)

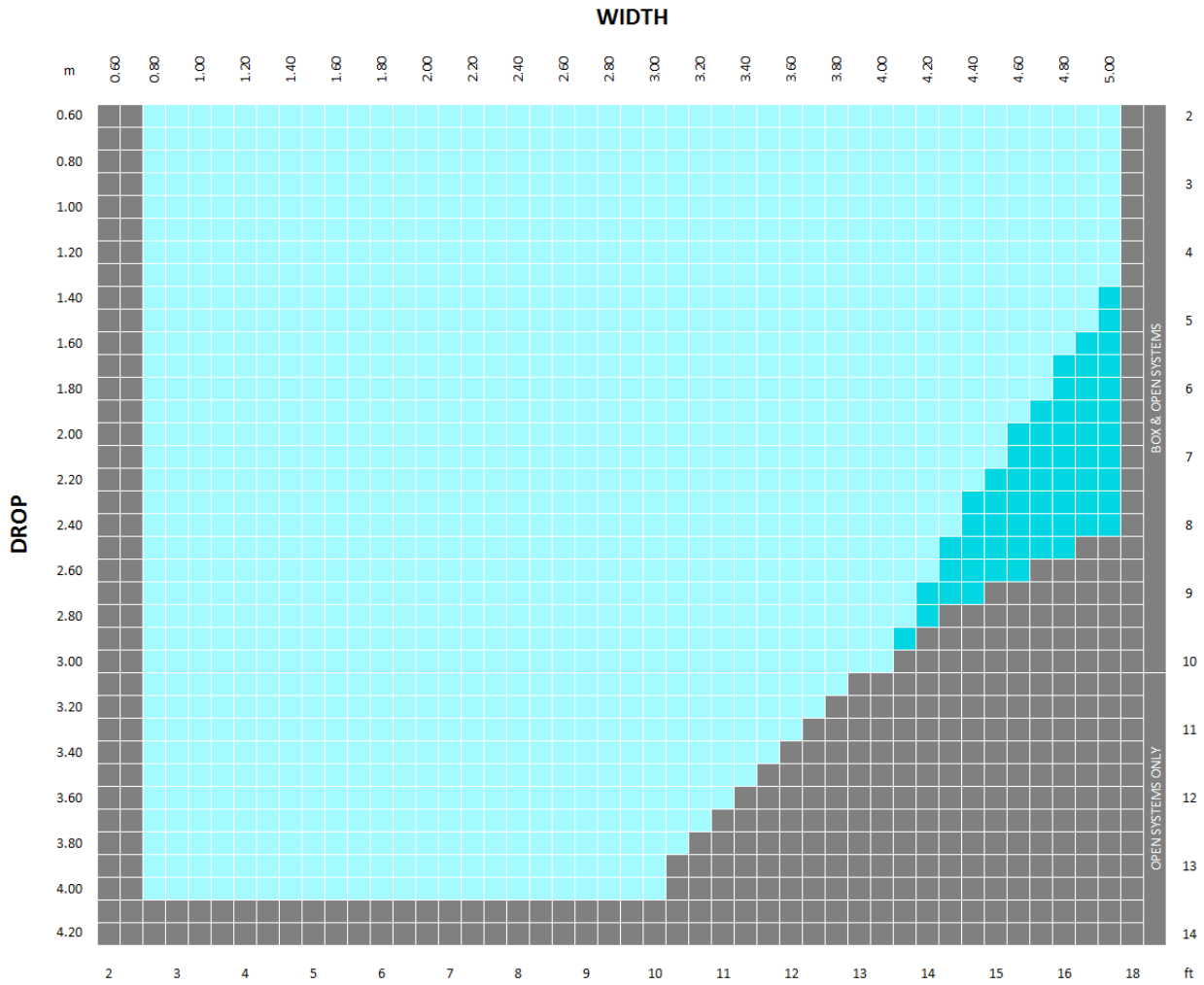
ZIP SCREEN



The above chart is indicative only. Manufacturer to select weight Bar to suite application. The F72 Weight Bar is required for wider blinds to reduce deflection. Ballast is required for larger drops to reduce the appearance of ripples.

LEGEND	DESCRIPTION
Cyan	F56 HD Weight Bar
Light Cyan	F72 Weight Bar / F56 HD with Bracing
Dark Cyan	F72 Weight Bar / F56 HD with Bracing + Ballast
Light Green	F56 HD Weight Bar + Ballast
Green	F72 Weight Bar + Ballast
Dark Grey	Outside Product Specifications

ZIP SCREEN

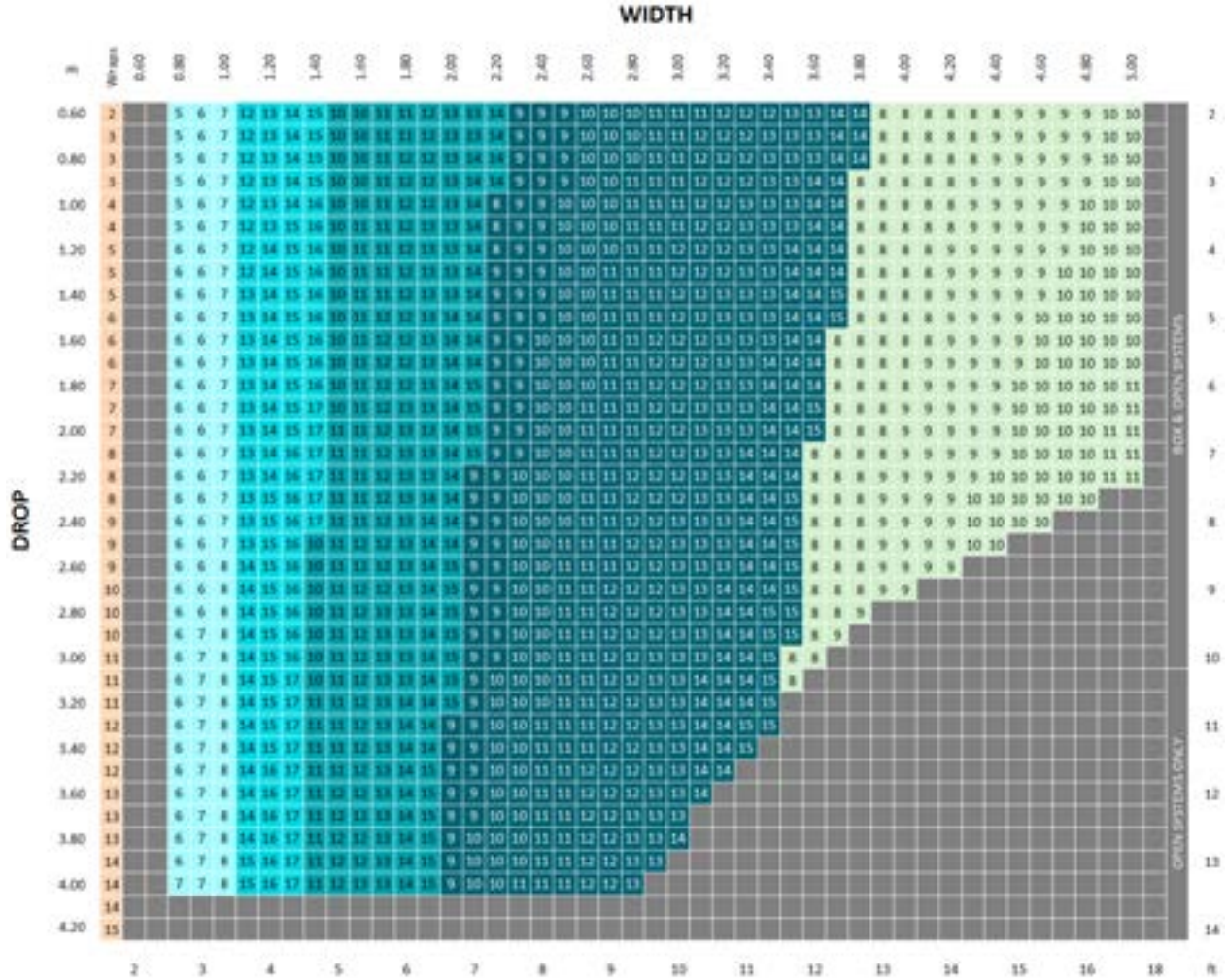


Parameters: F56 Weight Bar, with Ballast, 573gsm (16.9oz/yd²) fabric

LEGEND	DESCRIPTION
	Gear 7.5Nm (5:1) / Automate FT Motor 15Nm
	Automate FT Motor 15Nm
	Outside Product Specifications

ZIP SCREEN

F56 WEIGHT BAR

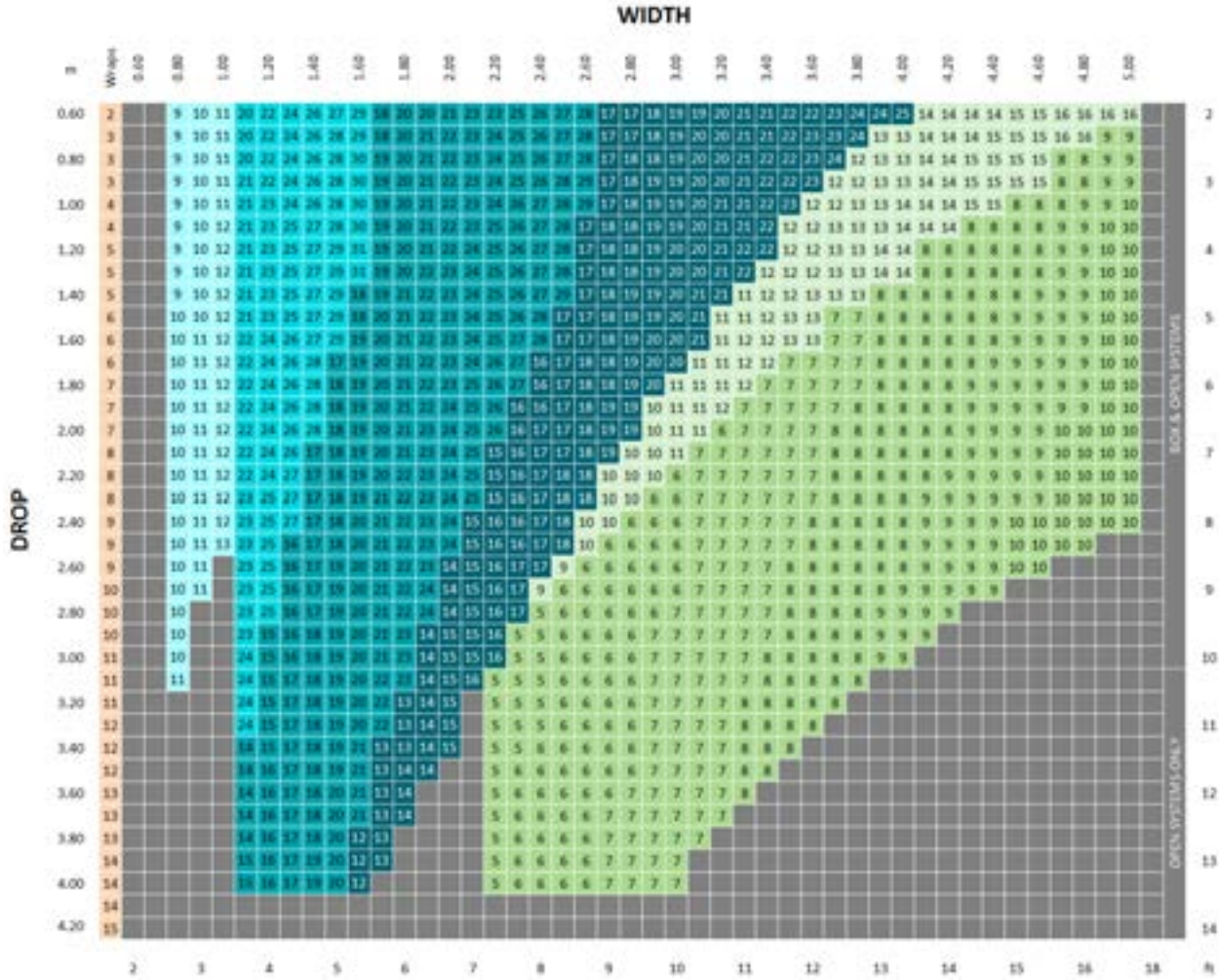


Parameters: 573gsm (16.9oz/yd²) fabric

LEGEND	DESCRIPTION	MAX BOOSTER ROTATIONS
	RE01 Short Spring	25
	RE01 Light Spring	40
	RE01 Standard Spring	38
	RE01 Heavy Spring	31
	RE01 Extra Heavy Spring	25
	WRAPS (No. of tube rotations)	
	Outside Product Specifications	

ZIP SCREEN

F56 WEIGHT BAR + 12mm ROUND BALLAST

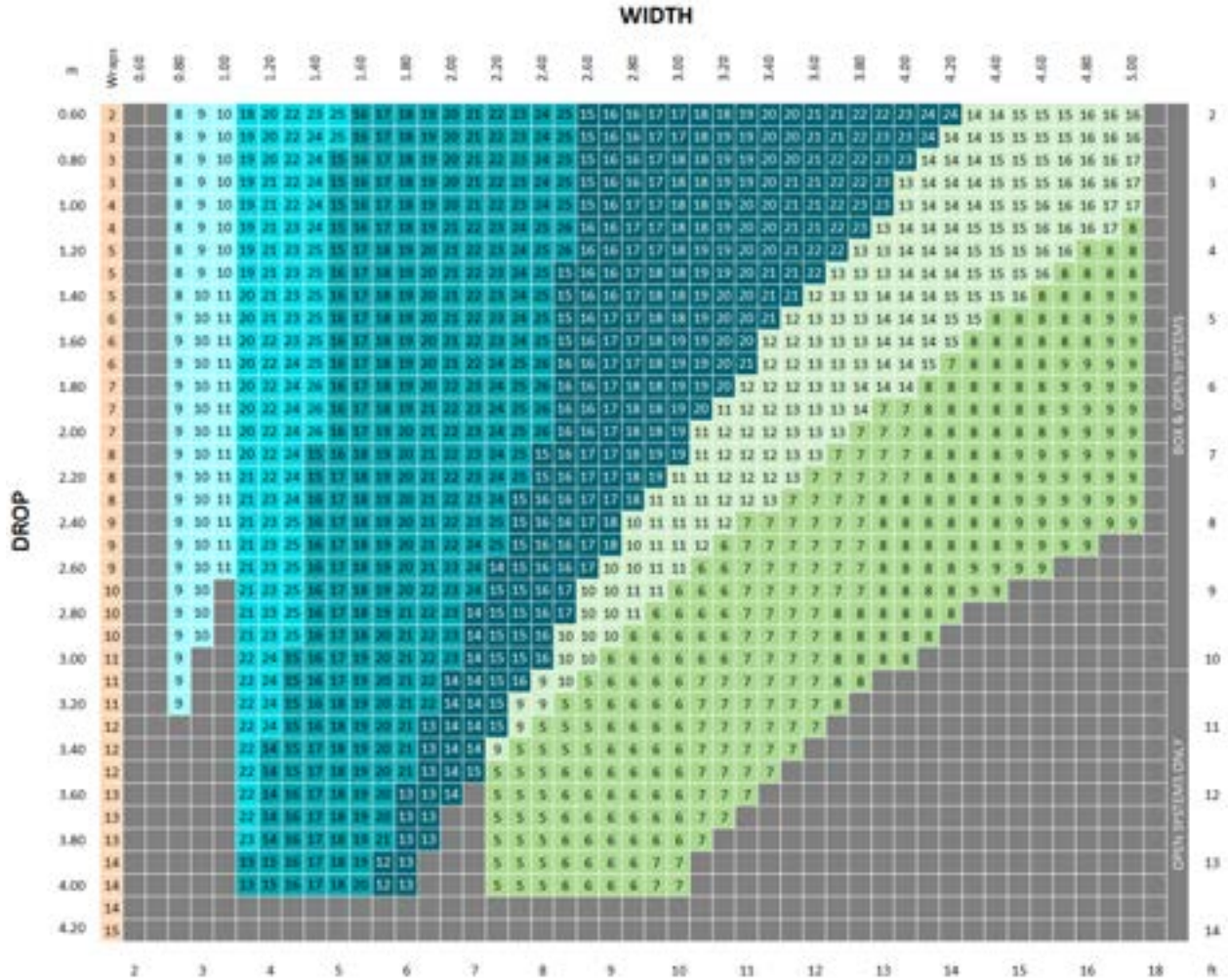


Parameters: 573gsm (16.9oz/yd²) fabric

LEGEND	DESCRIPTION	MAX BOOSTER ROTATIONS
	RE01 Short Spring	25
	RE01 Light Spring	40
	RE01 Standard Spring	38
	RE01 Heavy Spring	31
	RE01 Extra Heavy Spring	25
	RE01 Dual Heavy Springs	31 (per spring)
	WRAPS (No. of tube rotations)	
	Outside Product Specifications	

ZIP SCREEN

F72 WEIGHT BAR

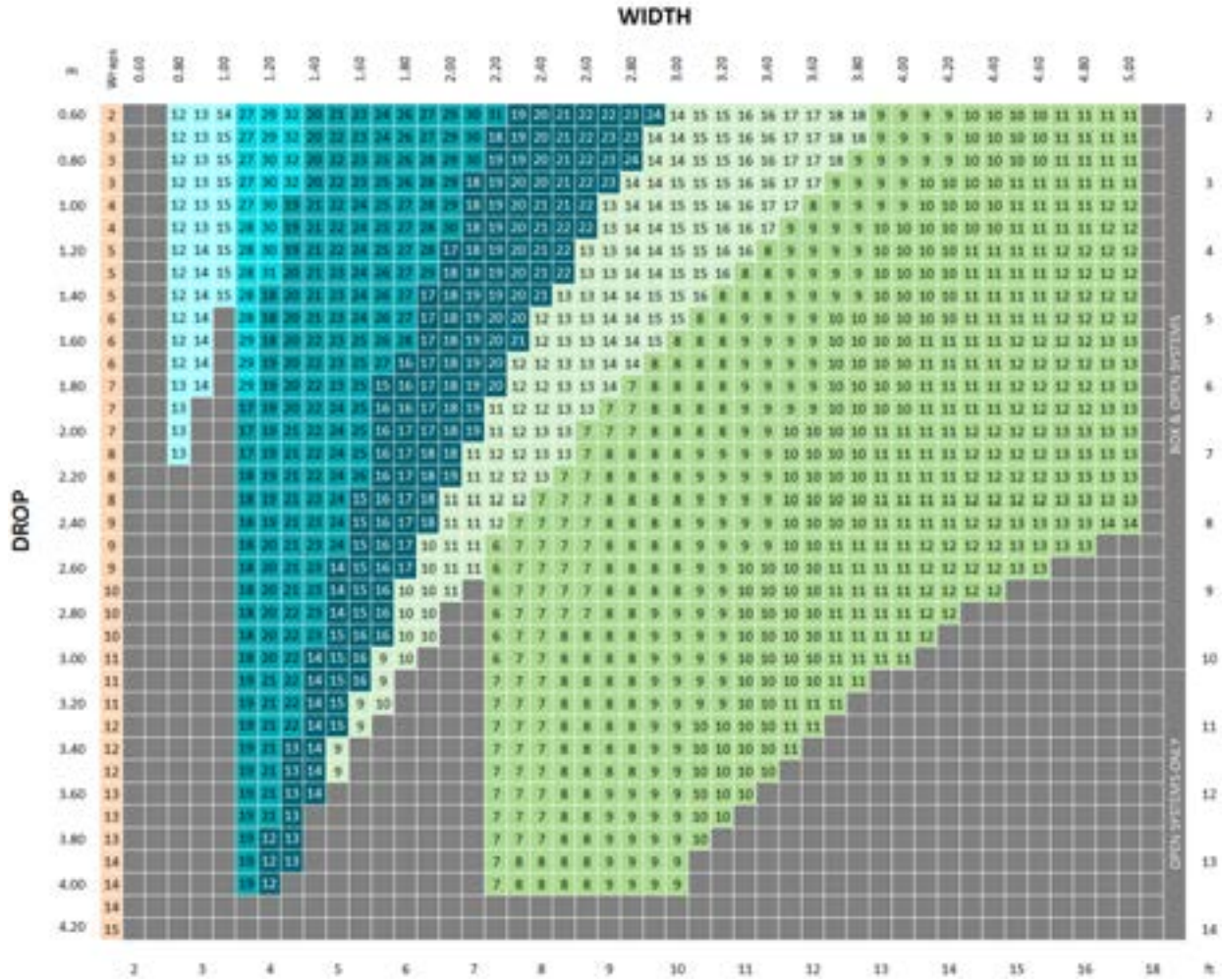


Parameters: 573gsm (16.9oz/yd²) fabric

LEGEND	DESCRIPTION	MAX BOOSTER ROTATIONS
	RE01 Short Spring	25
	RE01 Light Spring	40
	RE01 Standard Spring	38
	RE01 Heavy Spring	31
	RE01 Extra Heavy Spring	25
	RE01 Dual Heavy Springs	31 (per spring)
	WRAPS (No. of tube rotations)	
	Outside Product Specifications	

ZIP SCREEN

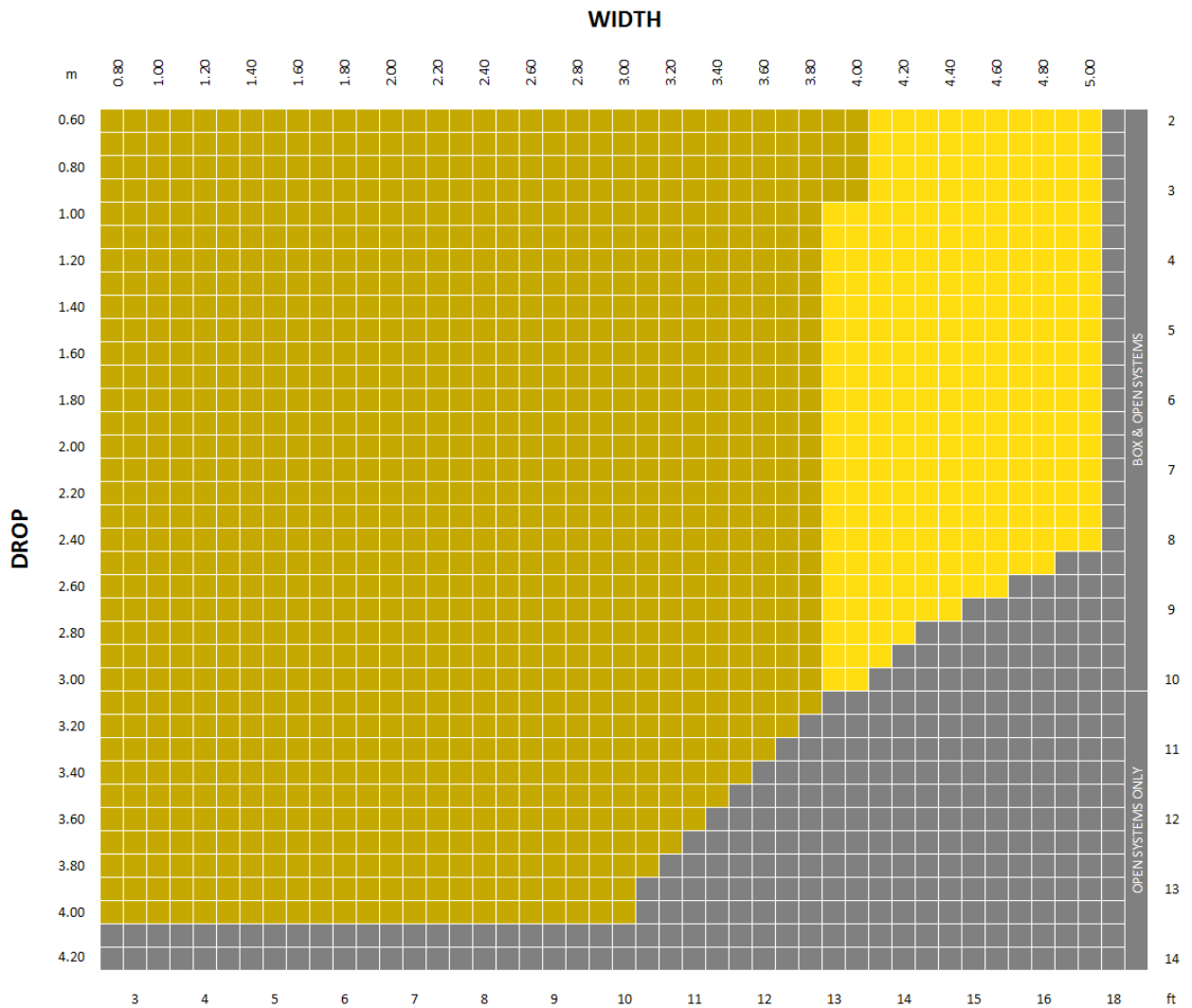
F72 WEIGHT BAR + 12mm ROUND BALLAST



Parameters: 573gsm (16.9oz/yd²) fabric

LEGEND	DESCRIPTION	MAX BOOSTER ROTATIONS
	RE01 Short Spring	25
	RE01 Light Spring	40
	RE01 Standard Spring	38
	RE01 Heavy Spring	31
	RE01 Extra Heavy Spring	25
	RE01 Dual Heavy Springs	31 (per spring)
	WRAPS (No. of tube rotations)	
	Outside Product Specifications	

ZIP SCREEN



Parameters: 0.85mm Fabric Thickness, 573gsm (16.9oz/yd²)

Above charts are based on theoretical calculations using the following:

- Stainless steel 4mm rivets or #8 Tek screws to secure side rails at 500mm spacing for side and face fix applications.
- Maximum allowable wind speeds (km/h) using solid fabric or 5% fabric openness. Fabrics with larger openness do not worsen results.

BEAUFORT WIND SCALE

The Beaufort Wind Force Scale estimates wind strength based on the effects wind has on the physical environment

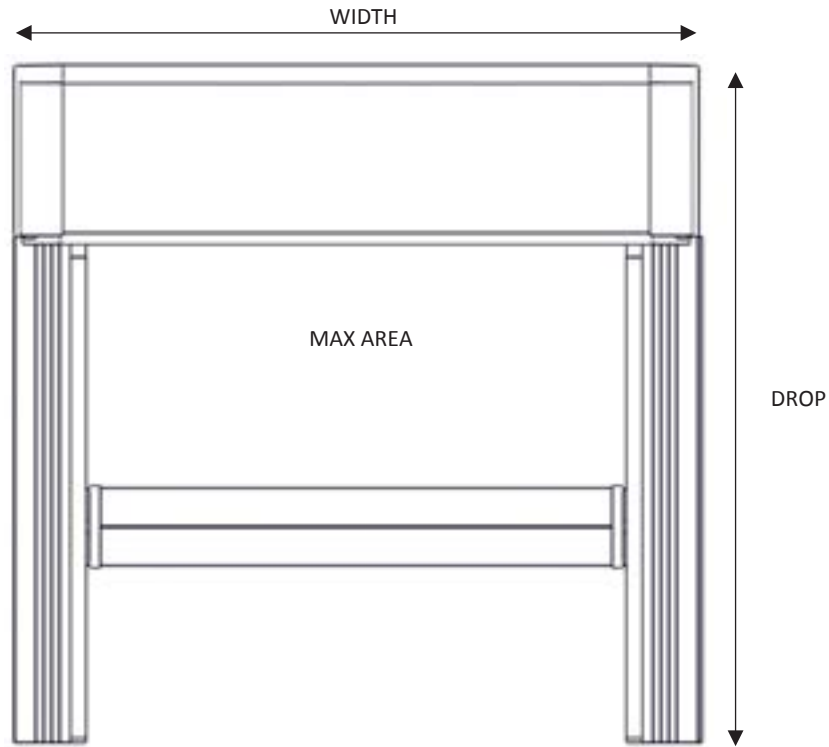


2. SYSTEM OPTIONS |

STRAIGHT DROP WIRE GUIDE

STRAIGHT DROP | WIRE GUIDE

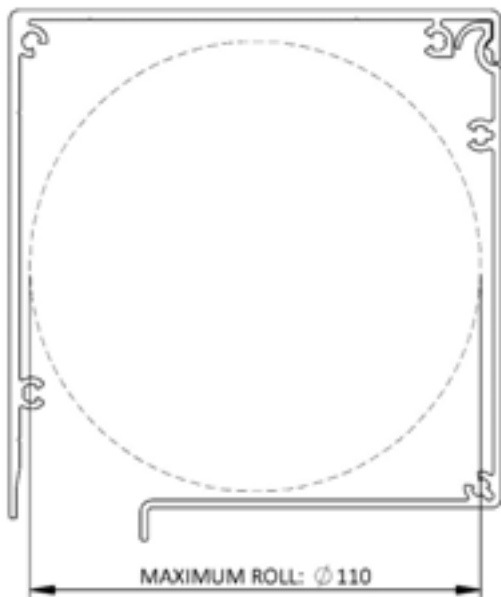
PART A – CONSTRAINTS



	WIDTH	DROP	MAX AREA
VEUE SUITE	4m	4m*	12m ²

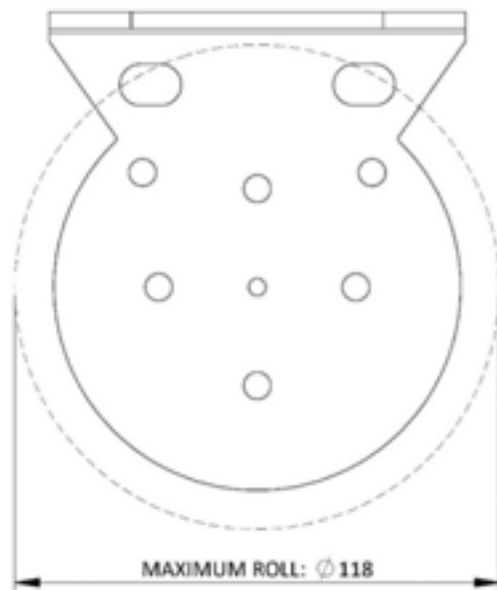
*Box and Open brackets can fit up to 6m, however fabric tracking must be considered

BOX



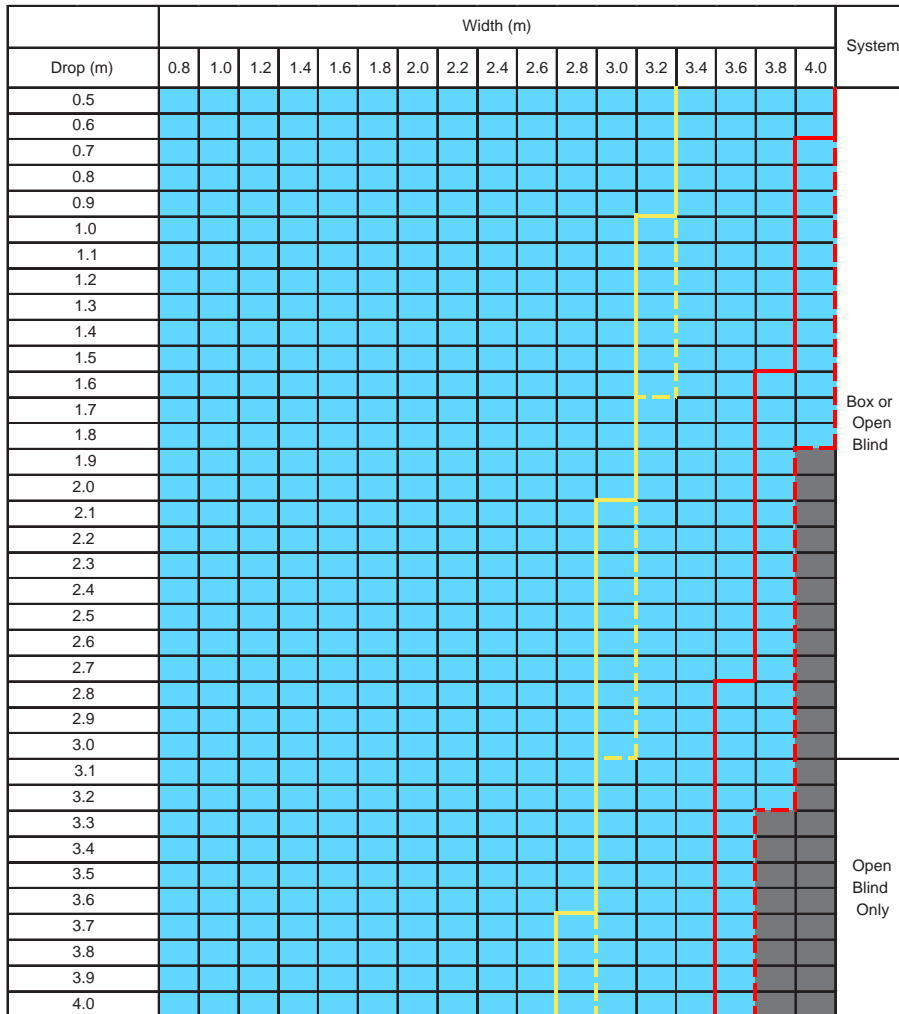
MAXIMUM DROP = 6m

OPEN BLIND



MAXIMUM DROP = 6m

STRAIGHT DROP | WIRE GUIDE



Parameters: F56 HD External Weight Bar, with Ballast, 573gsm

LEGEND	DESCRIPTION
	Gear Ratio 5:1
	63mm Aluminium Tube Optimum Performance
	63mm Steel Tube Optimum Performance
	78mm Aluminium Tube Optimum Performance
	78mm Steel Tube Optimum Performance
	Cannot be achieved - outside product specifications

STRAIGHT DROP | WIRE GUIDE

78mm TUBE – F56 HD External Weight Bar

Wraps	Drop (m)	WIDTH (m)																		
		0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	
2	0.5																			
2	0.6																			
3	0.7																			
3	0.8																			
3	0.9																			
4	1.0																			
4	1.1																			
5	1.2																			
5	1.3																			
5	1.4																			
6	1.5																			
6	1.6																			
6	1.7																			
7	1.8																			
7	1.9																			
7	2.0																			
8	2.1																			
8	2.2																			
8	2.3																			
9	2.4																			
9	2.5																			
9	2.6																			
10	2.7																			
10	2.8																			
10	2.9																			
11	3.0																			
11	3.1																			
11	3.2																			
12	3.3																			
12	3.4																			
12	3.5																			
13	3.6																			
13	3.7																			
13	3.8																			
14	3.9																			
14	4.0																			

LEGEND	DESCRIPTION
	RE01 Short Spring
	RE01 Light Spring
	RE01 Standard Spring
	RE01 Heavy Spring
	RE01 Extra Heavy Spring
	78mm Aluminium Tube Optimum Performance
	78mm Steel Tube Optimum Performance
	Cannot be achieved - outside product specifications

STRAIGHT DROP | WIRE GUIDE

78mm TUBE – F56 HD External Weight Bar + 12mm Ballast

Wraps	Drop (m)	WIDTH (m)																		
		0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	
2	0.5																			
2	0.6																			
3	0.7																			
3	0.8																			
3	0.9																			
4	1.0																			
4	1.1																			
5	1.2																			
5	1.3																			
5	1.4																			
6	1.5																			
6	1.6																			
6	1.7																			
6	1.7																			
7	1.8																			
7	1.9																			
7	2.0																			
7	2.0																			
8	2.1																			
8	2.2																			
8	2.3																			
8	2.3																			
9	2.4																			
9	2.5																			
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10	2.8																			
10	2.8																			
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11	3.2																			
12	3.3																			
12	3.4																			
12	3.5																			
12	3.5																			
13	3.6																			
13	3.7																			
13	3.8																			
13	3.8																			
14	3.9																			
14	4.0																			

LEGEND	DESCRIPTION
	RE01 Short Spring
	RE01 Light Spring
	RE01 Standard Spring
	RE01 Heavy Spring
	RE01 Extra Heavy Spring
.....	78mm Aluminium Tube Optimum Performance
—	78mm Steel Tube Optimum Performance
	Cannot be achieved - outside product specifications

STRAIGHT DROP

Straight Drop

Drop (m)	Width (m)																		System
	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0		
0.5	8.8	10.4	12.0	13.6	15.2	16.8	18.4	20.0	21.6	23.2	24.8	26.4	28.0	29.6	31.2	32.8	34.4	Box or Open Blind	
0.6	8.8	10.4	12.0	13.7	15.3	16.9	18.5	20.1	21.7	23.4	25.0	26.6	28.2	29.8	31.4	33.0	34.7		
0.7	8.9	10.5	12.1	13.7	15.4	17.0	18.6	20.2	21.9	23.5	25.1	26.8	28.4	30.0	31.6	33.3	34.9		
0.8	8.9	10.5	12.2	13.8	15.5	17.1	18.7	20.4	22.0	23.6	25.3	26.9	28.6	30.2	31.8	33.5	35.1		
0.9	8.9	10.6	12.2	13.9	15.5	17.2	18.8	20.5	22.1	23.8	25.4	27.1	28.7	30.4	32.0	33.7	35.3		
1.0	9.0	10.6	12.3	14.0	15.6	17.3	18.9	20.6	22.3	23.9	25.6	27.3	28.9	30.6	32.2	33.9	35.6		
1.1	9.0	10.7	12.4	14.0	15.7	17.4	19.1	20.7	22.4	24.1	25.7	27.4	29.1	30.8	32.4	34.1	35.8		
1.2	9.1	10.7	12.4	14.1	15.8	17.5	19.2	20.9	22.5	24.2	25.9	27.6	29.3	31.0	32.6	34.3	36.0		
1.3	9.1	10.8	12.5	14.2	15.9	17.6	19.3	21.0	22.7	24.4	26.1	27.8	29.5	31.1	32.8	34.5	36.2		
1.4	9.1	10.9	12.6	14.3	16.0	17.7	19.4	21.1	22.8	24.5	26.2	27.9	29.6	31.3	33.0	34.8	36.5		
1.5	9.2	10.9	12.6	14.3	16.1	17.8	19.5	21.2	22.9	24.7	26.4	28.1	29.8	31.5	33.2	35.0	36.7		
1.6	9.2	11.0	12.7	14.4	16.1	17.9	19.6	21.3	23.1	24.8	26.5	28.3	30.0	31.7	33.4	35.2	36.9		
1.7	9.3	11.0	12.8	14.5	16.2	18.0	19.7	21.5	23.2	24.9	26.7	28.4	30.2	31.9	33.6	35.4	37.1		
1.8	9.3	11.1	12.8	14.6	16.3	18.1	19.8	21.6	23.3	25.1	26.8	28.6	30.3	32.1	33.9	35.6	37.4		
1.9	9.4	11.1	12.9	14.6	16.4	18.2	19.9	21.7	23.5	25.2	27.0	28.8	30.5	32.3	34.1	35.8	37.6		
2.0	9.4	11.2	12.9	14.7	16.5	18.3	20.0	21.8	23.6	25.4	27.2	28.9	30.7	32.5	34.3	36.0	37.8		
2.1	9.4	11.2	13.0	14.8	16.6	18.4	20.2	21.9	23.7	25.5	27.3	29.1	30.9	32.7	34.5	36.2	38.0		
2.2	9.5	11.3	13.1	14.9	16.7	18.5	20.3	22.1	23.9	25.7	27.5	29.3	31.1	32.9	34.7	36.5	38.3		
2.3	9.5	11.3	13.1	14.9	16.8	18.6	20.4	22.2	24.0	25.8	27.6	29.4	31.2	33.1	34.9	36.7	38.5		
2.4	9.6	11.4	13.2	15.0	16.8	18.7	20.5	22.3	24.1	26.0	27.8	29.6	31.4	33.2	35.1	36.9	38.7		
2.5	9.6	11.4	13.3	15.1	16.9	18.8	20.6	22.4	24.3	26.1	27.9	29.8	31.6	33.4	35.3	37.1	38.9		
2.6	9.6	11.5	13.3	15.2	17.0	18.9	20.7	22.6	24.4	26.2	28.1	29.9	31.8	33.6	35.5	37.3	39.2		
2.7	9.7	11.5	13.4	15.3	17.1	19.0	20.8	22.7	24.5	26.4	28.2	30.1	32.0	33.8	35.7	37.5	39.4		
2.8	9.7	11.6	13.5	15.3	17.2	19.1	20.9	22.8	24.7	26.5	28.4	30.3	32.1	34.0	35.9	37.7	39.6		
2.9	9.8	11.6	13.5	15.4	17.3	19.2	21.0	22.9	24.8	26.7	28.6	30.4	32.3	34.2	36.1	38.0	39.8		
3.0	9.8	11.7	13.6	15.5	17.4	19.3	21.1	23.0	24.9	26.8	28.7	30.6	32.5	34.4	36.3	38.2	40.1		
3.1	9.8	11.8	13.7	15.6	17.5	19.4	21.3	23.2	25.1	27.0	28.9	30.8	32.7	34.6	36.5	38.4	40.3		
3.2	9.9	11.8	13.7	15.6	17.5	19.5	21.4	23.3	25.2	27.1	29.0	30.9	32.9	34.8	36.7	38.6	40.5		
3.3	9.9	11.9	13.8	15.7	17.6	19.6	21.5	23.4	25.3	27.3	29.2	31.1	33.0	35.0	36.9	38.8	40.7		
3.4	10.0	11.9	13.8	15.8	17.7	19.7	21.6	23.5	25.5	27.4	29.3	31.3	33.2	35.1	37.1	39.0	41.0		
3.5	10.0	12.0	13.9	15.9	17.8	19.8	21.7	23.6	25.6	27.5	29.5	31.4	33.4	35.3	37.3	39.2	41.2		
3.6	10.1	12.0	14.0	15.9	17.9	19.9	21.8	23.8	25.7	27.7	29.6	31.6	33.6	35.5	37.5	39.4	41.4		
3.7	10.1	12.1	14.0	16.0	18.0	19.9	21.9	23.9	25.9	27.8	29.8	31.8	33.7	35.7	37.7	39.7	41.6		
3.8	10.1	12.1	14.1	16.1	18.1	20.0	22.0	24.0	26.0	28.0	30.0	31.9	33.9	35.9	37.9	39.9	41.9		
3.9	10.2	12.2	14.2	16.2	18.2	20.1	22.1	24.1	26.1	28.1	30.1	32.1	34.1	36.1	38.1	40.1	42.1		
4.0	10.2	12.2	14.2	16.2	18.2	20.2	22.3	24.3	26.3	28.3	30.3	32.3	34.3	36.3	38.3	40.3	42.3		

Box or Open Blind

Open Blind Only

WIRE GUIDE



Wire Guide

Drop (m)	Width (m)																	System
	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	
0.5	8.8	10.4	12.0	13.6	15.2	16.8	18.4	20.0	21.6	23.2	24.8	26.4	28.0	29.6	31.2	32.8	34.4	Box or Open Blind
0.6	8.8	10.4	12.0	13.7	15.3	16.9	18.5	20.1	21.7	23.4	25.0	26.6	28.2	29.8	31.4	33.0	34.7	
0.7	8.9	10.5	12.1	13.7	15.4	17.0	18.6	20.2	21.9	23.5	25.1	26.8	28.4	30.0	31.6	33.3	34.9	
0.8	8.9	10.5	12.2	13.8	15.5	17.1	18.7	20.4	22.0	23.6	25.3	26.9	28.6	30.2	31.8	33.5	35.1	
0.9	8.9	10.6	12.2	13.9	15.5	17.2	18.8	20.5	22.1	23.8	25.4	27.1	28.7	30.4	32.0	33.7	35.3	
1.0	9.0	10.6	12.3	14.0	15.6	17.3	18.9	20.6	22.3	23.9	25.6	27.3	28.9	30.6	32.2	33.9	35.6	
1.1	9.0	10.7	12.4	14.0	15.7	17.4	19.1	20.7	22.4	24.1	25.7	27.4	29.1	30.8	32.4	34.1	35.8	
1.2	9.1	10.7	12.4	14.1	15.8	17.5	19.2	20.9	22.5	24.2	25.9	27.6	29.3	31.0	32.6	34.3	36.0	
1.3	9.1	10.8	12.5	14.2	15.9	17.6	19.3	21.0	22.7	24.4	26.1	27.8	29.5	31.1	32.8	34.5	36.2	
1.4	9.1	10.9	12.6	14.3	16.0	17.7	19.4	21.1	22.8	24.5	26.2	27.9	29.6	31.3	33.0	34.8	36.5	
1.5	9.2	10.9	12.6	14.3	16.1	17.8	19.5	21.2	22.9	24.7	26.4	28.1	29.8	31.5	33.2	35.0	36.7	
1.6	9.2	11.0	12.7	14.4	16.1	17.9	19.6	21.3	23.1	24.8	26.5	28.3	30.0	31.7	33.4	35.2	36.9	
1.7	9.3	11.0	12.8	14.5	16.2	18.0	19.7	21.5	23.2	24.9	26.7	28.4	30.2	31.9	33.6	35.4	37.1	
1.8	9.3	11.1	12.8	14.6	16.3	18.1	19.8	21.6	23.3	25.1	26.8	28.6	30.3	32.1	33.9	35.6	37.4	
1.9	9.4	11.1	12.9	14.6	16.4	18.2	19.9	21.7	23.5	25.2	27.0	28.8	30.5	32.3	34.1	35.8	37.6	
2.0	9.4	11.2	12.9	14.7	16.5	18.3	20.0	21.8	23.6	25.4	27.2	28.9	30.7	32.5	34.3	36.0	37.8	
2.1	9.4	11.2	13.0	14.8	16.6	18.4	20.2	21.9	23.7	25.5	27.3	29.1	30.9	32.7	34.5	36.2	38.0	
2.2	9.5	11.3	13.1	14.9	16.7	18.5	20.3	22.1	23.9	25.7	27.5	29.3	31.1	32.9	34.7	36.5	38.3	
2.3	9.5	11.3	13.1	14.9	16.8	18.6	20.4	22.2	24.0	25.8	27.6	29.4	31.2	33.1	34.9	36.7	38.5	
2.4	9.6	11.4	13.2	15.0	16.8	18.7	20.5	22.3	24.1	26.0	27.8	29.6	31.4	33.2	35.1	36.9	38.7	
2.5	9.6	11.4	13.3	15.1	16.9	18.8	20.6	22.4	24.3	26.1	27.9	29.8	31.6	33.4	35.3	37.1	38.9	
2.6	9.6	11.5	13.3	15.2	17.0	18.9	20.7	22.6	24.4	26.2	28.1	29.9	31.8	33.6	35.5	37.3	39.2	
2.7	9.7	11.5	13.4	15.3	17.1	19.0	20.8	22.7	24.5	26.4	28.2	30.1	32.0	33.8	35.7	37.5	39.4	
2.8	9.7	11.6	13.5	15.3	17.2	19.1	20.9	22.8	24.7	26.5	28.4	30.3	32.1	34.0	35.9	37.7	39.6	
2.9	9.8	11.6	13.5	15.4	17.3	19.2	21.0	22.9	24.8	26.7	28.6	30.4	32.3	34.2	36.1	38.0	39.8	
3.0	9.8	11.7	13.6	15.5	17.4	19.3	21.1	23.0	24.9	26.8	28.7	30.6	32.5	34.4	36.3	38.2	40.1	
3.1	9.8	11.8	13.7	15.6	17.5	19.4	21.3	23.2	25.1	27.0	28.9	30.8	32.7	34.6	36.5	38.4	40.3	
3.2	9.9	11.8	13.7	15.6	17.5	19.5	21.4	23.3	25.2	27.1	29.0	30.9	32.9	34.8	36.7	38.6	40.5	
3.3	9.9	11.9	13.8	15.7	17.6	19.6	21.5	23.4	25.3	27.3	29.2	31.1	33.0	35.0	36.9	38.8	40.7	
3.4	10.0	11.9	13.8	15.8	17.7	19.7	21.6	23.5	25.5	27.4	29.3	31.3	33.2	35.1	37.1	39.0	41.0	
3.5	10.0	12.0	13.9	15.9	17.8	19.8	21.7	23.6	25.6	27.5	29.5	31.4	33.4	35.3	37.3	39.2	41.2	
3.6	10.1	12.0	14.0	15.9	17.9	19.9	21.8	23.8	25.7	27.7	29.6	31.6	33.6	35.5	37.5	39.4	41.4	
3.7	10.1	12.1	14.0	16.0	18.0	19.9	21.9	23.9	25.9	27.8	29.8	31.8	33.7	35.7	37.7	39.7	41.6	
3.8	10.1	12.1	14.1	16.1	18.1	20.0	22.0	24.0	26.0	28.0	30.0	31.9	33.9	35.9	37.9	39.9	41.9	
3.9	10.2	12.2	14.2	16.2	18.2	20.1	22.1	24.1	26.1	28.1	30.1	32.1	34.1	36.1	38.1	40.1	42.1	
4.0	10.2	12.2	14.2	16.2	18.2	20.2	22.3	24.3	26.3	28.3	30.3	32.3	34.3	36.3	38.3	40.3	42.3	

Box or Open Blind

Open Blind Only

4. MEASURING AND SPECIFY GUIDELINES |

ZIP SCREEN

ZIP SCREEN

In order for the communication to be smooth between Apollo Patios and the installers, the following guidelines are provide in order to:

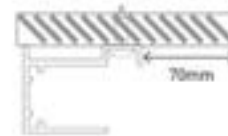
- Identify key information for Assembler and Installer
- Improve efficiency
- Limit the number of re-calls / adjustment required onsite after installation

The suggested 'Actual Blind Sizes' are based on:

- Minimum clearances to assist installers
- (some installers may request greater clearances for some application, e.g. installing onto brick)
- Having the Inner Rail installed at 52mm at top when installed

U MOUNTING RAIL & INNER RAIL	FACE FIX U MOUNTING RAIL & INNER RAIL
Consequently 20mm adjustment is provided by Side Guides on both sides (catering for out-of-square walls)	9mm adjustment (+ 0mm, - 9mm from 52mm) is provided by Side Guides on both sides (catering for out-of-square walls)

When measuring space and using Face Fix U Monunting Rail, ensure there is enough distance from the wall edge for a fastener. This is important when installing into concrete, solid or hollow bricks, masonry or natural stones. It is advised to allow 70mm from edge to edge of surface.



Compromise between minimising packing for installer (plus, overall appearance for end user) and simplifying process/communication for specifier.

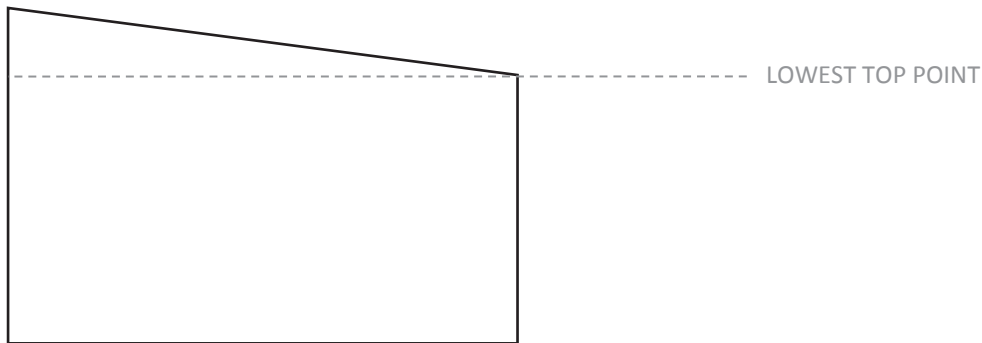
- Recommended 'Actual Blind Widths' are determined based on 10mm difference between Top, Centre and Bottom values.
- To simplify the specifier's task 'Actual Blind Widths' could be based on the smallest size – however more packing will be required at installation.
- To minimise the packing required, further analysis into where the walls are out-of-square could be undertaken (and potentially adjusting the recommended deductions / installing at '52mm' at the top), however very clear communication between specifier, Assembler and Installer is required.

4. Measuring and Specify Guidelines | ZIP SCREENS

MEASURING TIPS

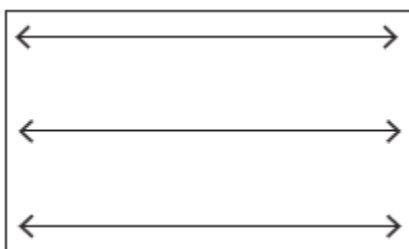
TIP 1: CHECK TOP OF INSTALLATION SPACE IS LEVEL

If Top of Installation Space is uneven, ensure 'Top Width' measurement and all 'Drop' measurements are taken from 'Lowest Top Point' (dotted line indicated below)

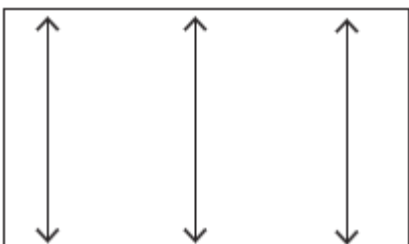


TIP 2: MEASURE INSTALLATION WIDTHS AT THREE DIFFERENT POINTS





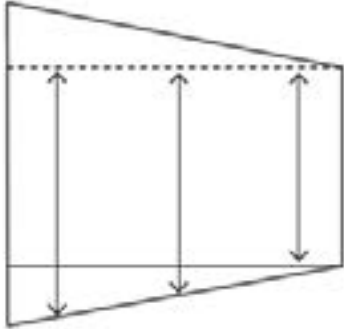
Installation Width at Top, Centre and Bottom




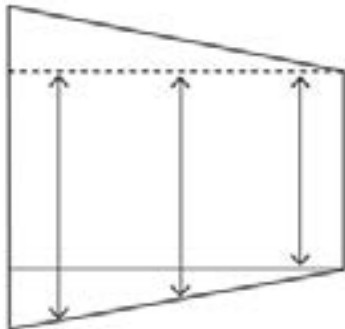

Installation drop at Left, Centre and Right.



ZIP SCREEN

BLIND DROP	EXAMPLE						
<p>For all scenarios</p> <p>Top & Bottom level</p>  <p>Top uneven & Bottom level</p>  <p>Top level & Bottom uneven^</p>  <p>Top & Bottom uneven^</p>  <p>Blind Drop = Smallest Drop Size – 2mm</p>	<p>Top & Bottom uneven</p>  <p>DROP (mm)</p> <table border="1" data-bbox="1043 904 1388 1003"> <tr> <td>2040</td> <td>2020</td> <td>2000</td> </tr> <tr> <td>LEFT</td> <td>CENTRE</td> <td>RIGHT</td> </tr> </table> <p>Blind Drop = Smallest Drop Size – 2mm = Right Hand Drop Size – 2mm = 2000 – 2 = 1998mm</p>	2040	2020	2000	LEFT	CENTRE	RIGHT
2040	2020	2000					
LEFT	CENTRE	RIGHT					

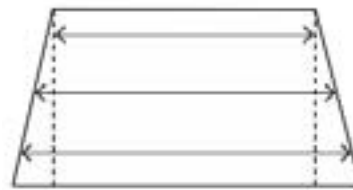
^ When Bottom is uneven, advise if one side guide needs to be longer than the other (only applicable if Side Guides are cut accurately during manufacturing and not trimmed on site).
 Note: some suppliers may not offer this as an option.

<p>Top level & Bottom uneven^</p> 	 <p>DROP (mm)</p> <table border="1" data-bbox="1043 1720 1388 1818"> <tr> <td>2040</td> <td>2020</td> <td>2000</td> </tr> <tr> <td>LEFT</td> <td>CENTRE</td> <td>RIGHT</td> </tr> </table> <p>Left Side to Be Longer Length Difference = Left Drop – Right Drop = 2040 – 2000 = 40mm</p>	2040	2020	2000	LEFT	CENTRE	RIGHT
2040	2020	2000					
LEFT	CENTRE	RIGHT					
<p>Top & Bottom uneven^</p> 							

Determine which side to be longer – Left or Right?
Length Difference = Left Drop – Right Drop

ZIP SCREEN

BLIND DROP	EXAMPLE
<p>For the following scenarios:</p>	<p>Top width smaller than bottom width, sides are not level.</p>
<p>Top, Centre & Bottom Widths identical, sides are level</p>	
<p>Top width smaller than Bottom Width, sides are not level</p>	
<p>Centre Width greater than Top & Bottom Widths, sides are not level</p>	
<p>Top Width within 7mm of Bottom Width, sides are not level</p>	
<p>Centre Width within 7mm of Top & Bottom Widths, sides are not level</p>	
<p>Open Blind System Blind Width = Top Width Sox System Blind Width = Top Width – 2mm</p>	
	<p>Open Blind System Blind Width = Top Width = 2000 Box System Blind Width = Top Width – 2mm = 2000 – 2 = 1998mm</p>



WIDTH (mm)

2000 TOP

2004 CENTRE

2006 BOTTOM

ZIP SCREEN

BLIND DROP

Top width equal to or greater than 7mm of bottom width, sides are not level



Open Blind System Blind Width
= Bottom Width + 10mm

Box System Blind Width
= Bottom Width + 8mm

EXAMPLE



Open Blind System Blind Width
= Bottom Width + 7mm
= 2000 + 10
= 2010mm

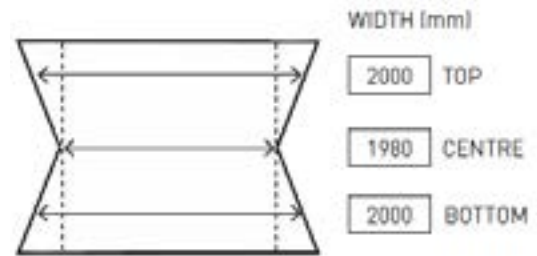
Box System Blind Width
= Bottom Width + 8mm
= 2000 + 8
= 2008mm

Centre width equal to or greater than 7mm of Top & Bottom widths, sides are not equal



Open Blind System Blind Width
= Centre Width + 10mm

Box System Blind Width
= Centre Width + 8mm



Open Blind System Blind Width
= Centre Width + 10mm
= 1980 + 10
= 1990mm

Box System Blind Width
= Centre Width + 8mm
= 1980 + 8
= 1988mm

ZIP SCREEN

BLIND DROP	EXAMPLE
<p data-bbox="161 371 794 394">Top, Centre & Bottom Width identical, sides are not level but parallel</p> <div data-bbox="292 421 654 649"> <p data-bbox="335 658 488 680">'x' less than 7mm</p> </div> <p data-bbox="161 790 558 813">Open Blind System Blind Width = Top Width</p> <p data-bbox="161 842 555 864">Box System Blind Width = Top Width - 2mm</p>	<div data-bbox="863 432 1385 649"> </div> <p data-bbox="799 790 1197 835">Open Blind System Blind Width = Top Width = 2000mm</p> <p data-bbox="799 864 1197 936">Box System Blind Width = Top Width - 2mm = 2000 - 2 = 1998mm</p>
<div data-bbox="292 1081 654 1310"> <p data-bbox="308 1319 592 1341">'x' greater than or equal to 7mm</p> </div> <p data-bbox="161 1447 655 1469">Open Blind System Blind Width = Top Width - X + 7mm</p> <p data-bbox="161 1498 587 1520">Box System Blind Width = Top Width - X + 8mm</p>	<div data-bbox="815 1081 1337 1310"> </div> <p data-bbox="799 1420 1300 1491">Open Blind System Blind Width = Top Width - X + 7mm = 2000 - 25 + 10 = 1985mm</p> <p data-bbox="799 1520 1230 1592">Box System Blind Width = Top Width - X + 8mm = 2000 - 25 + 8 = 1983mm</p>

4. MEASURING AND SPECIFY GUIDELINES |

STRAIGHT DROP WIRE GUIDE

MEASURE & SPECIFY GUIDELINES

In order to assist with providing seamless communication between the Specifier, Assembler and Installer Apollo are providing some guidelines to assist with measuring and specifying the External System in order to:

- Identify key information for Assembler and Installer
- Improve efficiency
- Limit the number of re-calls / adjustment required onsite after installation

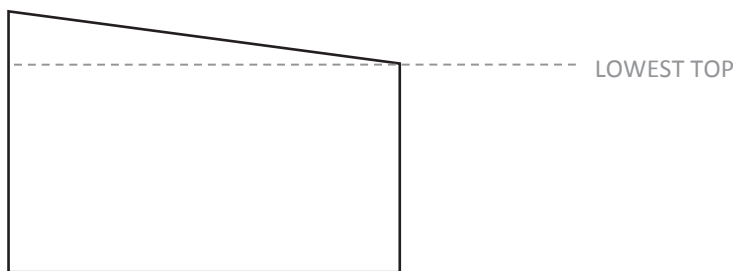
The suggested 'Actual Blind Sizes' are based on:

- Minimum clearances to assist installers
(some installers may request greater clearances for some application, e.g. installing onto brick)

MEASURING TIPS

TIP 1: CHECK TOP OF INSTALLATION SPACE IS LEVEL

If Top of Installation Space is uneven, ensure 'Top Width' measurement and all 'Drop' measurements are taken from 'Lowest Top Point' (dotted line indicated below)



TIP 2: FOR BLIND INSTALLATIONS, TAKE NOTE OF MEASUREMENTS BELOW -

Installation Width at Top, Bottom (and Centre for Channel Installations only)


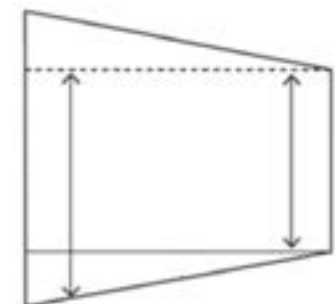





Installation drop at Left and Right.



For best installation and operation results, it is favourable for the measurements to be within:

STRAIGHT DROP | WIRE GUIDE

BLIND DROP	EXAMPLE
For all scenarios	Top & Bottom uneven
<p>Top & Bottom level</p> 	 <p>LEFT (2040mm) RIGHT (2000mm)</p> <p>Blind Drop = Smallest Drop Size = Right Hand Drop Size (2000mm)</p>
<p>Top uneven & Bottom level</p> 	
<p>Top level & Bottom uneven^</p> 	
<p>Top & Bottom uneven^</p> 	
<p>Blind Drop = Smallest Drop Size</p>	



inspired spaces

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