

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
2 m AL2 Standard Series (7.5 ft) Primary Guying Only 100 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
2 m AL2 Standard Series (7.5 ft) Primary & Secondary Guying 100 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
3 m AL2 Standard Series (10.5 ft) Primary Guying Only 85 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
3 m AL2 Standard Series (10.5 ft) Primary & Secondary Guying 85 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
4 m AL2 Standard Series (13.5 ft)						
Primary Guying Only						
70 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
4 m AL2 Standard Series (13.5 ft)						
Primary & Secondary Guying						
70 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
5 m AL2 Standard Series (16.5 ft)						
Primary Guying Only						
65 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
5 m AL2 Standard Series (16.5 ft)						
Primary & Secondary Guying						
65 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

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AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
6 m AL2 Standard Series (19.5 ft)						
Primary Guying Only						
60 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
6 m AL2 Standard Series (19.5 ft)						
Primary & Secondary Guying						
60 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
7 m AL2 Standard Series (22.5 ft)						
Primary Guying Only						
57.5 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

Fully Operational		Survivable		Mast Failure		
7 m AL2 Standard Series (22.5 ft)						
Primary & Secondary Guying						
57.5 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance					
	50% Guy Distance					
	80% Guy Distance					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure			
8 m AL2 Standard Series (25.5 ft) Primary Guying Only 55 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

Fully Operational		Survivable		Mast Failure			
8 m AL2 Standard Series (25.5 ft) Primary & Secondary Guying 55 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

Fully Operational		Survivable		Mast Failure			
9 m AL2 Standard Series (28.5 ft) Primary Guying Only 52 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

Fully Operational		Survivable		Mast Failure			
8 m AL2 Standard Series (28.5 ft) Primary & Secondary Guying 52 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable			Mast Failure		
10 m AL2 Standard System (31.5 ft) Primary Guying Only 50 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

Fully Operational		Survivable			Mast Failure		
10 m AL2 Standard System (31.5 ft) Primary & Secondary Guying 50 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

Fully Operational		Survivable			Mast Failure		
11 m AL2 Standard System (34.5 ft) Primary Guying Only 40 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

Fully Operational		Survivable			Mast Failure		
11 m AL2 Standard System (34.5 ft) Primary & Secondary Guying 40 lbs Deployed							
		Wind Speed (mph)			70	90	110
Mast Only	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance						
	50% Guy Distance						
	80% Guy Distance						

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure	
12 m AL2 Standard System (37.5 ft) Primary Guying Only 35 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Yellow	Red	Red	
	50% Guy Distance	Green	Yellow	Red	
	80% Guy Distance	Green	Green	Yellow	
1 Sq Ft Panel	30% Guy Distance	Yellow	Red	Red	
	50% Guy Distance	Yellow	Yellow	Red	
	80% Guy Distance	Green	Yellow	Yellow	
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Green	Yellow	Red	
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Yellow	Yellow	Red	

Fully Operational		Survivable		Mast Failure	
12 m AL2 Standard System (37.5 ft) Primary & Secondary Guying 35 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Green	Green	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
1 Sq Ft Panel	30% Guy Distance	Green	Green	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
2 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
3 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	

Fully Operational		Survivable		Mast Failure	
13 m AL2 Standard System (40.5 ft) Primary Guying Only 30 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Yellow	Red	Red	
	50% Guy Distance	Yellow	Yellow	Red	
	80% Guy Distance	Green	Yellow	Yellow	
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Green	Yellow	Red	
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Yellow	Yellow	Red	
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Red	Red	Red	
	80% Guy Distance	Yellow	Red	Red	

Fully Operational		Survivable		Mast Failure	
13 m AL2 Standard System (40.5 ft) Primary & Secondary Guying 30 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Green	Yellow	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
1 Sq Ft Panel	30% Guy Distance	Green	Yellow	Red	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	
2 Sq Ft Panel	30% Guy Distance	Green	Yellow	Red	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	
	50% Guy Distance	Green	Yellow	Yellow	
	80% Guy Distance	Green	Green	Yellow	

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
14 m AL2 Standard System (43.5 ft) Primary Guying Only 25 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Green	Yellow	Red	Red	Red
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Yellow	Yellow	Red	Red	Red
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red

Fully Operational		Survivable		Mast Failure		
14 m AL2 Standard System (43.5 ft) Primary & Secondary Guying 25 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
1 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
2 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green

Fully Operational		Survivable		Mast Failure		
15 m AL2 Standard System (46.5 ft) Primary Guying Only 20 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Yellow	Yellow	Red	Red	Red
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red

Fully Operational		Survivable		Mast Failure		
15 m AL2 Standard System (46.5 ft) Primary & Secondary Guying 20 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Green	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
1 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
2 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green

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