







**Down Force**

Mounting Plane	1		2		3		4		5	
Module Location	EM	IM	EM	IM	EM	IM	EM	IM	EM	IM
D+S (psf)	9.83	9.83								
D+06W (psf)	8.64	6.67								

Mounting Plane	6		7		8		9		10	
Module Location	EM	IM	EM	IM	EM	IM	EM	IM	EM	IM
D+S (psf)										
D+06W (psf)										

**Lateral Parallel to Roof**

Mounting Plane	1	2	3	4	5
D+S (psf)	4.59				

Mounting Plane	6	7	8	9	10
D+S (psf)					

**Framing Check**

Lumber Species: DF

PV Load = 3 psf

Mounting Plane	1	2	3	4	5
Framing Type	Truss				
Framing Size	2x4				
Framing Spacing (in)	24				
Span (ft)	7.16				
Moment (lb-ft)	216				
Shear (lbs)	121				
Upgrade Size	NA				

Mounting Plane	6	7	8	9	10
Framing Type					
Framing Size					
Framing Spacing (in)					
Span (ft)					
Moment (lb-ft)					
Shear (lbs)					
Upgrade Size					



**Array Attachment Spacing**

Module = SILFAB SOLAR: SIL-430 QD

Mounting Plane	1	2	3	4	5
Roofing Material	Comp Shingle				
Attachment Type	Ecofasten RockIt Smart Slide				
Lag Count Per Attachment	2				
Min Lag Embedment (in)	2				
Landscape	72				
Portrait	48				

Mounting Plane	6	7	8	9	10
Roofing Material					
Attachment Type					
Lag Count Per Attachment					
Min Lag Embedment (in)					
Landscape					
Portrait					