Case Study

SOLAR ENERGY FOCUS

SPENCER SOLAR FARM

BEBasor

CABLE TRAY SPECIALIST

#YOURGLOBALPARTNER

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+ MORE THAN **1000**

REALIZED **PROJECTS**

IN THE **LAST 15 YEARS**

- RENEWABLE ENERGY
- INDUSTRIAL PLANTS
- FOOD INDUSTRY
- SHIP BUILDING
- INFRASTRUCTURE
- DATA CENTER
- OIL & GAS
- WATER TREATMENT
- MINING

SOLAR ENERGY FOCUS

Solar energy is the most abundant of all energy resources and can even be harnessed in cloudy weather. The rate at which solar energy is intercepted by the Earth is about **10,000 times greater** than the rate at which humankind consumes energy.

Solar technologies can deliver heat, cooling, natural lighting, electricity, and fuels for a host of applications. Solar technologies convert sunlight into electrical energy either through photovoltaic panels or through mirrors that concentrate solar radiation.

Although not all countries are equally endowed with solar energy, a significant contribution to the energy mix from direct solar energy is possible for every country.

Basor Electric supplies specific products for each of these clean energy generation subsectors, solving all those technical challenges that may arise. Our **Product & Project Department** engineers work closely with those responsible for each project, to achieve every time the best solution.

CASE STUDY

Spencer Solar Farm

LOCATED AT
NEW YORK

CAPACITY
12 MW

MATERIAL
BasorTrav FE HDG

BasorTrav FE

5,000ft
OF **CABLE LADDER**

MORE THAN **250**
ACCESSORIES

MORE THAN **500**
SUPPORTS

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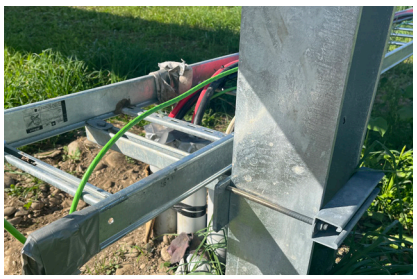
SPENCER SOLAR FARM

Spencer Solar Farm is a 12 megawatt photovoltaic solar project located in the state of New York.

The Spencer Community Solar Farms, situated on three parcels of land owned by the Pasto family, will produce sufficient electricity to supply more than 2,900 households with power.

With an array of 74,000 solar panels, the farm generates around 29,000 megawatt-hour of renewable energy annually. Notably, it employs single-axis tracking technology, allowing the panels to optimize their alignment with the sun, maximizing both energy production and panel efficiency. This project symbolizes a commitment to sustainable energy and a brighter future for the local community and the environment.



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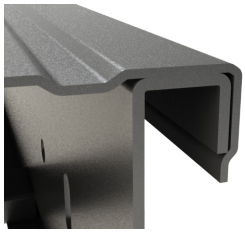
BasorTrav FE



L>100m
IEC 61537

NO + M0/A1
UNE 201010
IEC 61537

150°C -50°C
IEC 61537

6 7
IEC 61537

20J
IEC 61537

OK

H75								
B		Filling Area		Max. Filling*				
mm	inch	cm²	in²	2m	3m	4m	5m	6m
100	4	59	9,1	100%	100%	100%	100%	100%
150	6	89	13,8	100%	100%	100%	100%	100%
200	8	118	18,3	100%	100%	100%	100%	100%
300	12	177	27,4	100%	100%	100%	100%	74%
400	16	236	36,6	100%	100%	100%	83%	55%
500	20	295	45,7	100%	100%	100%	66%	44%
600	24	354	54,9	100%	100%	86%	55%	37%

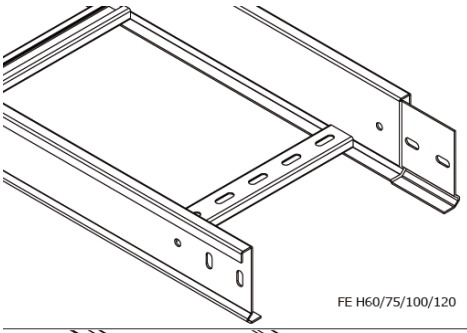
H100								
B		Filling Area		Max. Filling*				
mm	inch	cm²	in²	2m	3m	4m	5m	6m
100	4	84	13,0	100%	100%	100%	100%	100%
150	6	126	19,5	100%	100%	100%	100%	100%
200	8	168	26,0	100%	100%	100%	100%	100%
300	12	252	39,1	100%	100%	100%	100%	78%
400	16	336	52,1	100%	100%	100%	84%	58%
500	20	420	65,1	100%	100%	98%	67%	47%
600	24	504	78,1	100%	100%	82%	56%	39%

H120								
B		Filling Area		Max. Filling*				
mm	inch	cm²	in²	2m	3m	4m	5m	6m
150	6	156	24,2	100%	100%	100%	100%	100%
200	8	208	32,2	100%	100%	100%	100%	100%
300	12	312	48,4	100%	100%	100%	100%	72%
400	16	416	64,5	100%	100%	100%	78%	54%
500	20	520	80,6	100%	100%	100%	63%	43%
600	24	624	96,7	100%	100%	84%	52%	36%

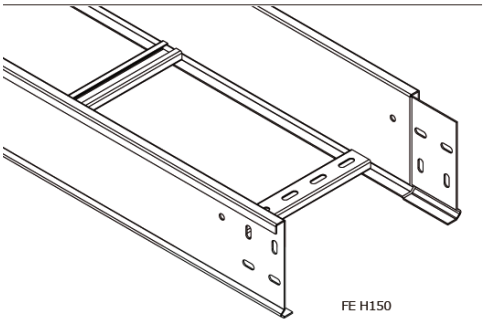
H150								
B		Filling Area		Max. Filling*				
mm	inch	cm²	in²	2m	3m	4m	5m	6m
150	6	201	31,2	100%	100%	100%	100%	100%
200	8	268	41,5	100%	100%	100%	100%	100%
300	12	402	62,3	100%	100%	100%	100%	76%
400	16	536	83,1	100%	100%	100%	85%	57%
500	20	670	103,9	100%	100%	100%	68%	45%
600	24	804	124,6	100%	100%	87%	57%	38%

*Maximum filling depending on support span (m) considering a cable load of 0,23 kg/(m·cm²)
For maximum SWL according to IEC61537.

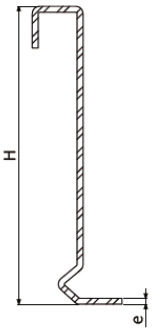
TECHNICAL DATA SHEET



FE H60/75/100/120



FE H150



MODELS

100x60; 150x60; 200x60; 300x60; 400x60; 500x60; 600x60; 100x75; 150x75; 200x75; 300x75; 400x75; 500x75; 600x75; 100x100; 150x100; 200x100; 300x100; 400x100; 500x100; 600x100; 150x120; 200x120; 300x120; 400x120; 500x120; 600x120; 150x150; 200x150; 300x150; 400x150; 500x150; 600x150.

Nota1: SideR.: H60 e=1,5; H75-150 e= 2. Rung: H60-100 RA35; H120-H150 CT40
Nota2: All the models with 9 or 12 rungs. (d=250 mm ó 333 mm), st. length 3m.

SPECIAL CONFIGURATIONS

Side Rails:

- 75x1,5
- 100x1,5
- 120x1,5
- 150x1,5

Length:

- 3,66 m (12ft)
- 6 m (20ft)

Rung Spacing:

- 150 mm (6")
- 225 mm (9")
- 300 mm (12")
- 450 mm (18")

Rungs:

- RA35 (35x14x1,5)
- CT40 (40x20x1,5)
- 41x21x2

CHARACTERISTICS

Material:

Carbon Steel with Hot Dip Galvanized after fabrication acc. to ISO 1461 (also available acc. to ASTM under request).

Coating Thickness:

- Medium (minimum value): 55 microns.
- Special under request: 70~90 microns.

Ladder:

- Metallic
- Excellent corrosion resistance in humid and chemically aggressive environments.
- Welded union betweent Side Rail and rungs.
- Non-flame propagating component.
- Product with electrical continuity.

Height (H)	Thickness (e)	Min. Cross Sec. Area (1 Rail)	Min. Cross Sec. Area (2 Rail)	Max. Amp.
mm	mm	in^2 (mm^2)	in^2 (mm^2)	acc. to NEC 392.7
63	1,5	0,226 (146,0)	0,453 (292,1)	100
75	1,5	0,254 (164,0)	0,509 (328,1)	100
75	2	0,336 (216,9)	0,672 (433,7)	100
100	1,5	0,340 (219,5)	0,681 (439,1)	100
100	2	0,448 (288,9)	0,895 (577,7)	200
120	1,5	0,387 (249,9)	0,775 (499,9)	200
120	2	0,510 (328,9)	1,019 (657,7)	400
150	1,5	0,458 (295,5)	0,916 (591,1)	200
150	2	0,603 (388,9)	1,205 (777,7)	400

ACCESSORIES

This family has large array of accessories: Cover TFE/TFEL, cover clamps PTFE/PT2AFE/PTFE-E60/PVTFE-E60/PT2AFE-E60/PVT2AFE-E60, divider PS, horizontal bend CPFE, vertical inside/outside bends CCFE/CXFE, T intersection TEFE, cross intersection CRFE, reductions REFE, cable ladder clamp BFE, union joint plates JUFE, articulated union joints JUFE-A, horizontal angle joints JUFE-B. The standard radius of the accesories is 300 mm (12").

Available radius under request: 600 mm (24"), 900 mm (36").

SAFE WORKING LOAD

Standard Load Ratings acc. to NEMA VE1:

Load, kg/m (lb/ft)	Span, m (ft)				
	2.4 (8)	3.0 (10)	3.7 (12)	4.9 (16)	6.0 (20)
AA - 37 (25)	8AA	10AA	12AA	16AA	20AA
A - 74 (50)	8A	10A	12A	16A	20A
B - 112 (75)	8B	-	12B	16B	20B
C - 149 (100)	8C	-	12C	16C	20C

FE Side Rail classes:

Side Rail (Hxe)	60x1,5	75x1,5	75x2	100x1,5	100x2	120x1,5	120x2	150x1,5	150x2
Class	8A-12AA	8C-16AA	12C-16B-20AA	12C-16A-20AA	12C-16B-20A	12C-16A-20AA	16C-20B	12C-16B-20A	16C-20B

NOTE: 1,5 Safety factor considered.

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