Sure Beam

Lightweight, strong, versatile, forming & shoring beam

The Sure Beam complements the advantages of the standard SureBuilt forming systems. The unique hole pattern makes the Sure Beam adaptable to most forming and shoring configurations.

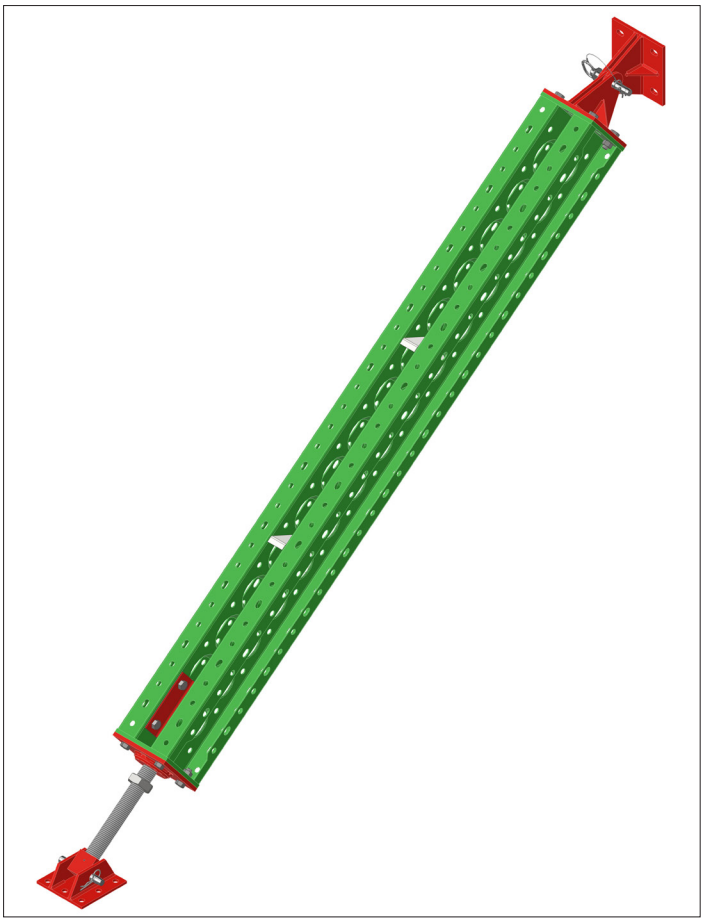
The ability to bolt to all the fl anges adds efficiency. When bolted end-to-end as a continuous beam, the connection develops the full strength of the resulting stud.

Commons uses for the Sure Beam include: brace, waler, strongback, shoring, aligner, truss, and other forming and shoring applications.

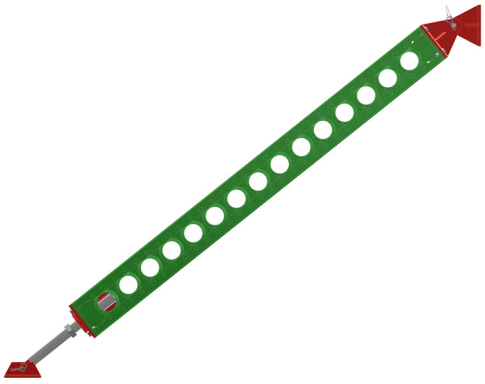
SureBuilt Sure Beams are manufactured with high-strength steel for high load capacity and are powder-coated or galvanized for long service life. The strength to weight ratio can result in reduced crane capacity requirements.

End Plates are high-strength steel, built square to the Sure Beam, enabling the end-to-end bolted connections to develop the full strength of the Sure Beam.

Additional engineering data for Sure Beam and components, including capacities and maximum loads, is available on request.



Bolt to any side of the Sure Beam using the holes and slots at 3” on center for dimensional adjustment and flexibility.



Sure Beam			
Part No.	**Description**	**Length (ft)**	**Weight (lbs)**
SBSB3	3’ Sure Beam	3	68
SBSB4	4’ Sure Beam	4	85
SBSB8	8’ Sure Beam	8	150
SBSB12	12’ Sure Beam	12	215

SureBuilT
Concrete Forms & Accessories

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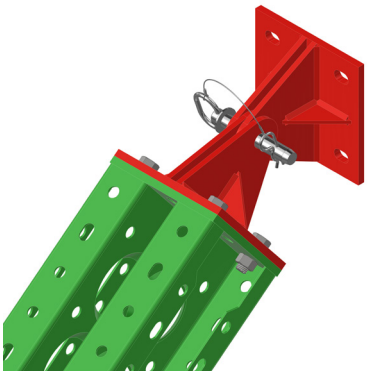
MADE IN USA

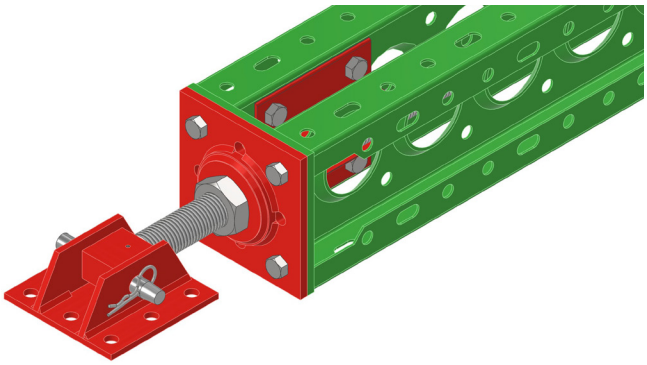
Pivot Bracket
When bolted to the end of the Sure Beam, the Pivot Bracket provides the connection between the Sure Beam brace and forming system.
Fastening the Pivot Bracket to the Sure Beam requires 4 - 3/4” x 2” Speed Bolts and Nuts per end connection.



Pivot Bracket

Strut Jack Assembly
The Strut Jack Assembly components are shown below. The free-turning nut allows up to 16” adjustment, and the Jack Base pivots 180°.

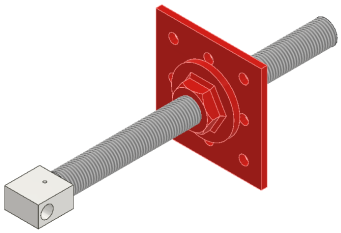
Fastening the assembly to the Sure Beam requires 8 - 3/4” x 2” Speed Bolts and Nuts.



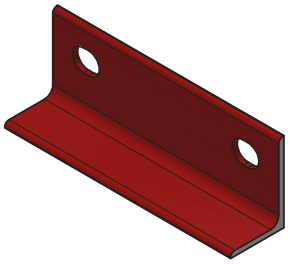
Strut Jack Assembly

Components
Jack Base
Strut Jack requires 4 - 3/4” x 2” Speed Bolts and Nuts to fasten.
Guide Angles (2 required) to guide the Strut Jack Assembly. Each Guide Angle requires 2 - 3/4” x 2” Speed Bolts and Nuts to fasten.

Jack Base



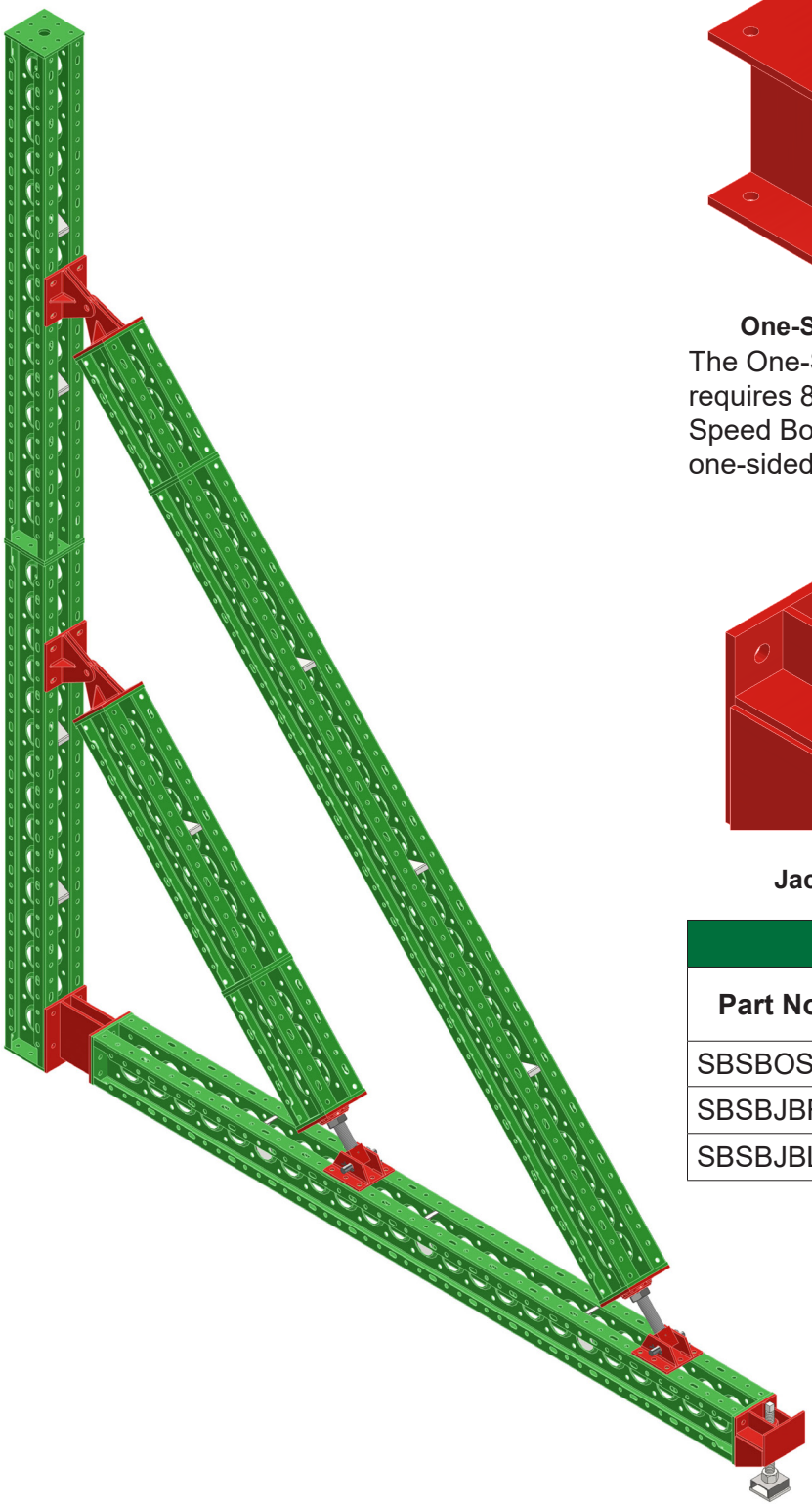
Strut Jack

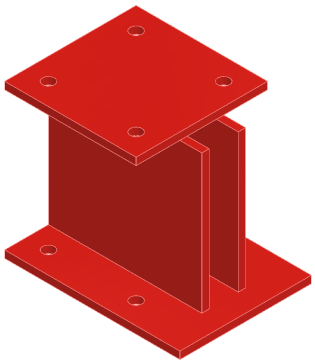


Guide Angle

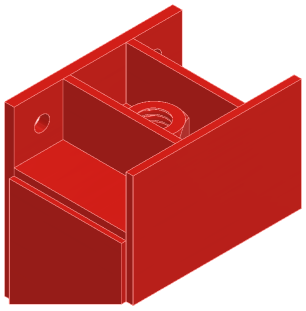
Sure Beam Accessories		
Part No.	**Description**	**Weight (lbs)**
SBSBPB	Pivot Bracket	37
SBSBSJA	Strut Jack Assembly	67
SBSBJB	Jack Base	11
SBSBSJ	Strut Jack	52
SBSBGA	Guide Angle	2
SBSBSN34	3/4” Speed Nut	0.18
SBSBSB342	3/4” x 2” Speed Bolt	0.36
SBSBSB343	3/4” x 3” Speed Bolt	0.60
SBSBSB344	3/4” x 4” Speed Bolt	0.65

One-Sided Forming
Sure Beam and SureBuilt standard forming systems are used to create tieless one-sided wall forming schemes, providing substantial savings in time and labor.





One-Sided Bracket
The One-Sided Bracket requires 8 - 3/4” x 2” Speed Bolts and Nuts for one-sided wall forming.

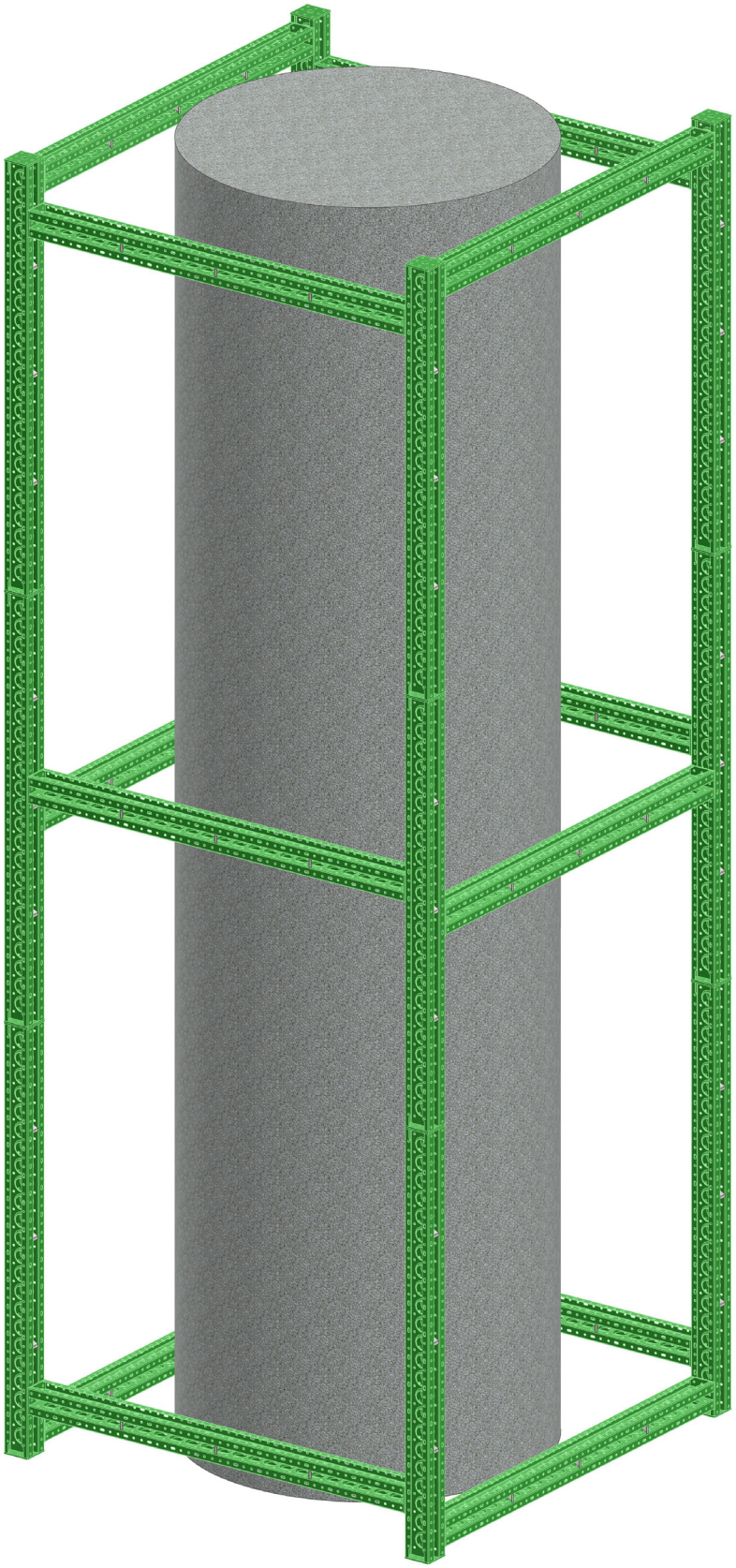


Jack Bracket

Jack Bracket Leveling Leg

Sure Beam Accessories		
Part No.	**Description**	**Weight (lbs)**
SBSBOSB	One Sided Bracket	55
SBSBJBR	Jack Bracket	33
SBSBJBLL	Jack Bracket Leveling Leg	12

Tower Application

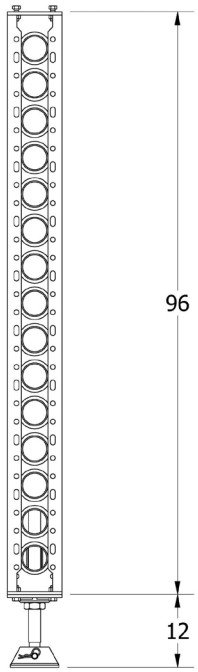


General Notes for Using Sure Beam as a Post Shore

1. Load capacities are based on 12” Pipe Extension.
2. Gangs shorter than 28’ - 0” did not vary more than 3/8” in straightness. Gangs 28’ - 0” and longer did not vary more than 1” in straightness.
3. Post shore should be plumb to 1/8” in 3’-0” or 2” total, whichever is less.
4. All post shore lengths are unbraced.
5. Brace as required for erection purposes and stability.

Sure Beam - Safe Working Loads		
Length	***Post Shore SWL (lbs)**	***Brace SWL (lbs)**
2’-0”	37,300	55,950
12’-0”	37,300	55,950
13’-0”	37,300	55,950
14’-0”	37,300	55,950
15’-0”	37,300	55,950
16’-0”	37,300	55,950
17’-0”	37,300	55,950
18’-0”	34,470	51,700
19’-0”	30,940	46,400
20’-0”	27,920	41,880
21’-0”	27,700	40,400
22’-0”	26,300	39,200
23’-0”	25,100	37,800
24’-0”	24,100	36,200
25’-0”	23,300	34,400
26’-0”	22,700	32,500
27’-0”	22,200	30,500
28’-0”	20,190	28,700
29’-0”	18,820	27,100
30’-0”	17,590	25,800
31’-0”	16,470	24,600
32’-0”	15,460	23,190
33’-0”	14,530	21,800
34’-0”	13,690	20,540
35’-0”	12,920	19,380
36’-0”	12,210	18,320
37’-0”	11,560	17,340
38’-0”	10,960	16,440
39’-0”	10,400	15,600
40’-0”	9,890	14,800

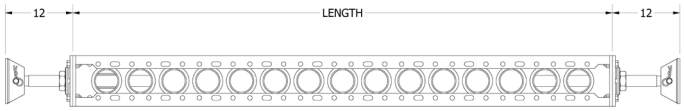
** Post shore SWLs have a 3:1 factor of safety.*
** Brace SWLs have a 2 to 1 factor of safety.*



Post shore

General Notes for Using Sure Beam as a Brace

1. Load capacities are based on 12” Strut Jack Extension.
2. Gangs shorter than 28’ - 0” did not vary more than 3/8” in straightness. Gangs 28’ - 0” and longer did not vary more than 1” in straightness.
3. All brace lengths are unbraced.

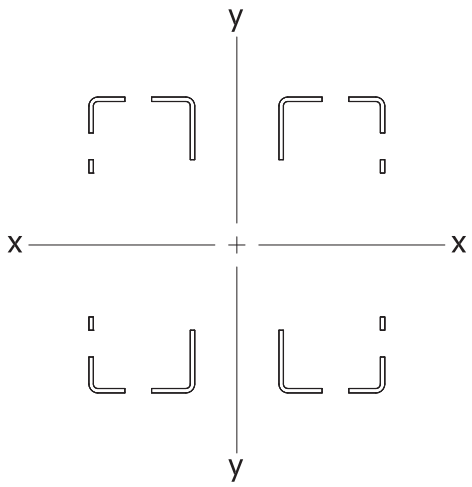


Brace

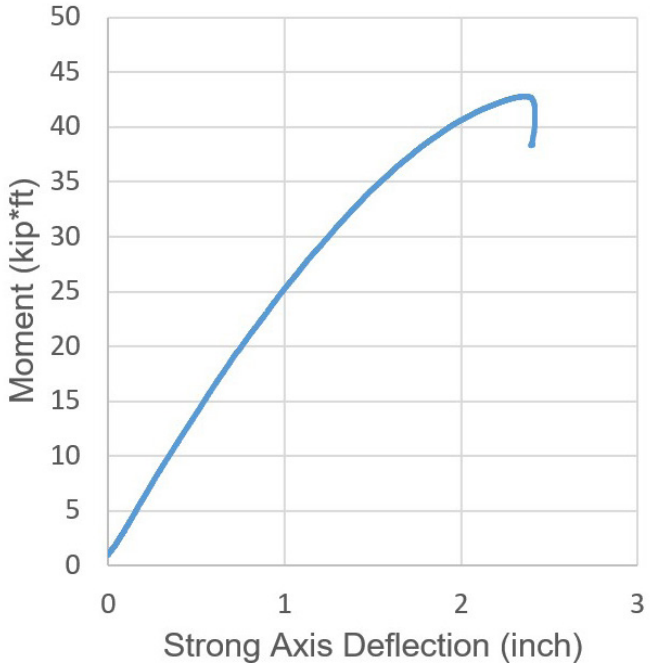
Technical Product Data for Continous Single Member

Sure Beam Properties	
A	2.89 in^2
I xx	52.66 in^4
S xx	11.70 in^3
R x	4.27 in
I yy	19.22 in^4
S yy	4.27 in^3
R y	2.58 in
F y	50 ksi

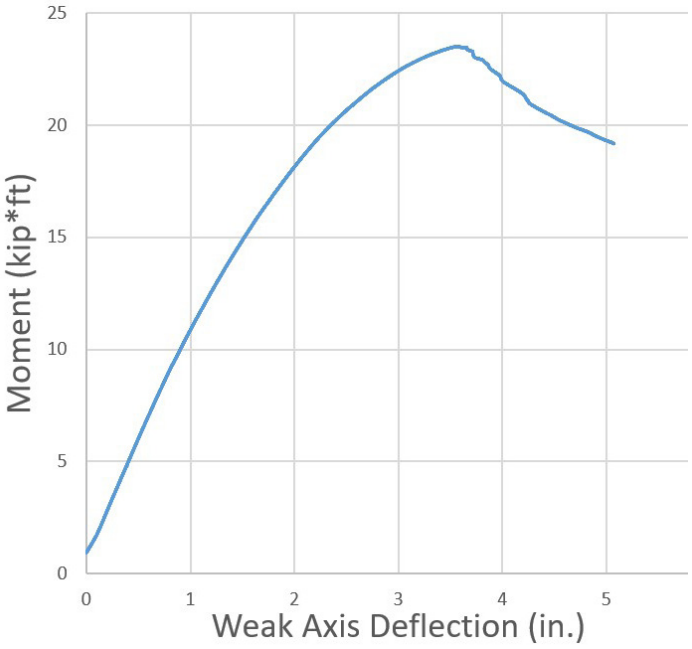
Data based off indepedent testing



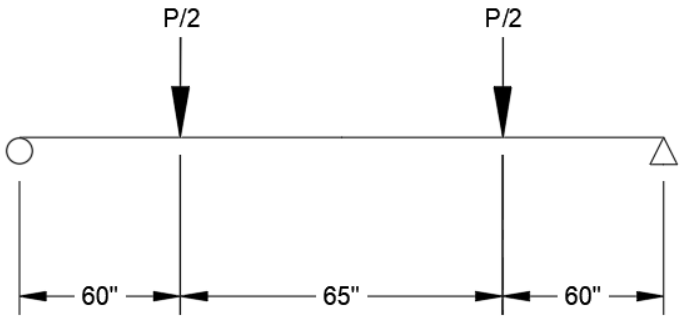
Net Section Area = 2.89 in^2



Data based off indepedent testing.
Moment calculation includes beam self-weight.



Data based off indepedent testing.
Moment calculation includes beam self-weight.



Loading configuration for deflection tests