

PoleEnforcer SRS[®]

Spliced Reinforcement System

U.S. PATENT NO. 9,777,500

**Soft Soil
Applications**

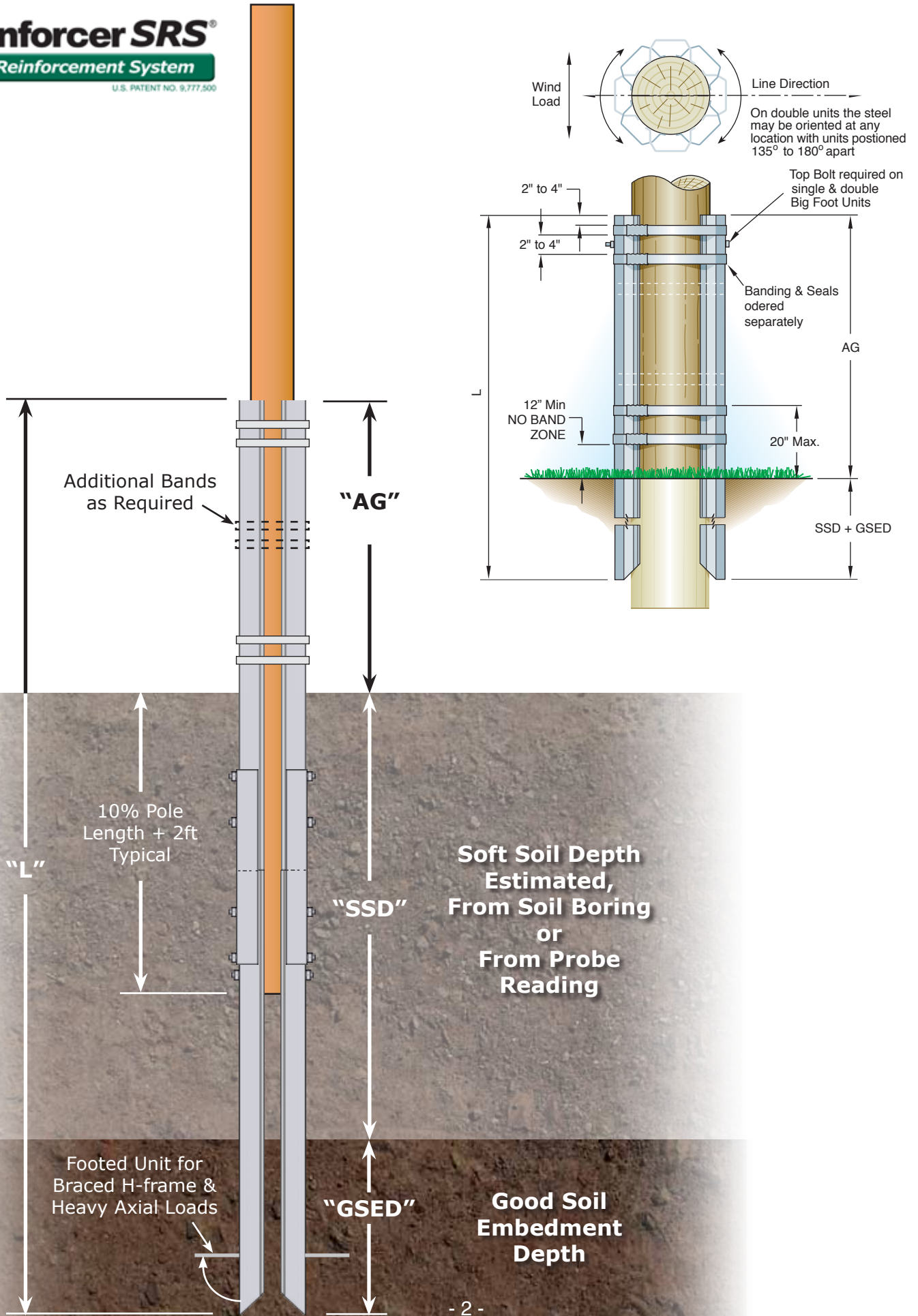


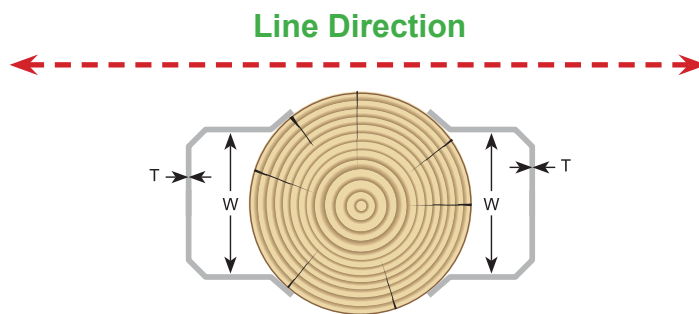
LWS

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LWS
Proudly Made in
AMERICA

PoleEnforcer SRS[®]
Spliced Reinforcement System
 U.S. PATENT NO. 9,777,500





PoleEnforcer SRS® Strength Chart				
PoleEnforcer SRS® Unit Number	Rated Bending Strength (Ft.-Lbs.)	Unit Dimensions		“A G” (min.)
		“W”	“T”	
CPE42 -"L"- S*	84,000	5-1/8"	1/4"	5.0 ft.
CPE75 -"L"- S*	150,000	7-1/8"	1/4"	5.0 ft.
CPE91 -"L"- S*	182,000	7-1/4"	5/16"	5.5 ft.
CPE148 -"L"- S*	296,000	9"	3/8"	5.5 ft.

“L” = Total Length of Steel in Feet * = Number of Splices for More than One
 NOTE: “F” After Length for Footed Units

NESC Grade “B” Construction

Soft Soil Depth “SSD” = 5 ft.			Pole Length (ft.)	Pole Class				
				H1	1	2	3	4
Steel Size	“GSED” (min.)	“AG” (min.)	35	CPE75	CPE75	CPE42	CPE42	CPE42
CPE42	8 ft.	5 ft.	40	CPE75	CPE75	CPE75	CPE42	CPE42
CPE75	9.5 ft.	5 ft.	45	CPE75	CPE75	CPE75	CPE42	CPE42
CPE91	10.5 ft.	5.5 ft.	50	CPE91	CPE75	CPE75	CPE75	CPE42
CPE148	13 ft.	5.5 ft.	55	CPE91	CPE75	CPE75	CPE75	CPE42
<i>OTHER SIZES AVAILABLE ON REQUEST</i>			60	CPE148	CPE91	CPE75	CPE75	CPE75
			65	CPE148	CPE91	CPE75	CPE75	CPE75
			70	CPE148	CPE148	CPE91	CPE75	CPE75
			75	CPE148	CPE148	CPE148	CPE91	
			80	CPE148	CPE148	CPE148	CPE91	
			85		CPE148	CPE148	CPE91	
			90		CPE148	CPE148		
			95		CPE148	CPE148		
			100			CPE148		

NESC Grade “B” Construction

Soft Soil Depth “SSD” = 10 ft.			Pole Length (ft.)	Pole Class				
				H1	1	2	3	4
Steel Size	“GSED” (min.)	“AG” (min.)	35	CPE75	CPE75	CPE75	CPE42	CPE42
CPE42	8 ft.	5 ft.	40	CPE75	CPE75	CPE75	CPE42	CPE42
CPE75	9.5 ft.	5 ft.	45	CPE91	CPE75	CPE75	CPE75	CPE42
CPE91	10.5 ft.	5.5 ft.	50	CPE91	CPE75	CPE75	CPE75	CPE42
CPE148	13 ft.	5.5 ft.	55	CPE148	CPE91	CPE75	CPE75	CPE75
<i>OTHER SIZES AVAILABLE ON REQUEST</i>			60	CPE148	CPE91	CPE75	CPE75	CPE75
			65	CPE148	CPE148	CPE91	CPE75	CPE75
			70	CPE148	CPE148	CPE148	CPE91	CPE75
			75		CPE148	CPE148	CPE91	
			80		CPE148	CPE148	CPE91	
			85		CPE148	CPE148	CPE148	
			90		CPE148	CPE148		
			95			CPE148		
			100			CPE148		

NESC Grade “B” Construction

Soft Soil Depth “SSD” = 15 ft.			Pole Length (ft.)	Pole Class				
				H1	1	2	3	4
Steel Size	“GSED” (min.)	“AG” (min.)	35	CPE75	CPE75	CPE75	CPE42	CPE42
CPE42	8 ft.	5 ft.	40	CPE91	CPE75	CPE75	CPE75	CPE42
CPE75	9.5 ft.	5 ft.	45	CPE91	CPE91	CPE75	CPE75	CPE42
CPE91	10.5 ft.	5.5 ft.	50	CPE148	CPE91	CPE75	CPE75	CPE75
CPE148	13 ft.	5.5 ft.	55	CPE148	CPE91	CPE75	CPE75	CPE75
<i>OTHER SIZES AVAILABLE ON REQUEST</i>			60	CPE148	CPE148	CPE91	CPE75	CPE75
			65	CPE148	CPE148	CPE91	CPE75	CPE75
			70		CPE148	CPE148	CPE91	CPE75
			75		CPE148	CPE148	CPE91	
			80		CPE148	CPE148	CPE148	
			85		CPE148	CPE148		
			90			CPE148		
			95			CPE148		
			100			CPE148		

NESC Grade “C” Construction

Soft Soil Depth “SSD” = 5 ft.			Pole Length (ft.)	Pole Class																	
				H1	1	2	3	4													
<table border="1"> <thead> <tr> <th>Steel Size</th> <th>“GSED” (min.)</th> <th>“AG” (min.)</th> </tr> </thead> <tbody> <tr> <td>CPE42</td> <td>8 ft.</td> <td>5 ft.</td> </tr> <tr> <td>CPE75</td> <td>9.5 ft.</td> <td>5 ft.</td> </tr> <tr> <td>CPE91</td> <td>10.5 ft.</td> <td>5.5 ft.</td> </tr> <tr> <td>CPE148</td> <td>13 ft.</td> <td>5.5 ft.</td> </tr> </tbody> </table> <p>OTHER SIZES AVAILABLE ON REQUEST</p>	Steel Size	“GSED” (min.)	“AG” (min.)	CPE42	8 ft.	5 ft.	CPE75	9.5 ft.	5 ft.	CPE91	10.5 ft.	5.5 ft.	CPE148	13 ft.	5.5 ft.	35	CPE75	CPE75	CPE75	CPE42	CPE42
	Steel Size	“GSED” (min.)	“AG” (min.)																		
	CPE42	8 ft.	5 ft.																		
	CPE75	9.5 ft.	5 ft.																		
	CPE91	10.5 ft.	5.5 ft.																		
	CPE148	13 ft.	5.5 ft.																		
	40	CPE91	CPE75	CPE75	CPE75	CPE42															
	45	CPE148	CPE91	CPE75	CPE75	CPE75															
	50	CPE148	CPE91	CPE75	CPE75	CPE75															
	55	CPE148	CPE148	CPE91	CPE75	CPE75															
	60	CPE148	CPE148	CPE91	CPE75	CPE75															
	65	CPE148	CPE148	CPE148	CPE91	CPE75															
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95			CPE148																		
100			CPE148																		

NESC Grade “C” Construction

Soft Soil Depth “SSD” = 10 ft.			Pole Length (ft.)	Pole Class																	
				H1	1	2	3	4													
<table border="1"> <thead> <tr> <th>Steel Size</th> <th>“GSED” (min.)</th> <th>“AG” (min.)</th> </tr> </thead> <tbody> <tr> <td>CPE42</td> <td>8 ft.</td> <td>5 ft.</td> </tr> <tr> <td>CPE75</td> <td>9.5 ft.</td> <td>5 ft.</td> </tr> <tr> <td>CPE91</td> <td>10.5 ft.</td> <td>5.5 ft.</td> </tr> <tr> <td>CPE148</td> <td>13 ft.</td> <td>5.5 ft.</td> </tr> </tbody> </table> <p>OTHER SIZES AVAILABLE ON REQUEST</p>	Steel Size	“GSED” (min.)	“AG” (min.)	CPE42	8 ft.	5 ft.	CPE75	9.5 ft.	5 ft.	CPE91	10.5 ft.	5.5 ft.	CPE148	13 ft.	5.5 ft.	35	CPE91	CPE75	CPE75	CPE75	CPE42
	Steel Size	“GSED” (min.)	“AG” (min.)																		
	CPE42	8 ft.	5 ft.																		
	CPE75	9.5 ft.	5 ft.																		
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	CPE148	13 ft.	5.5 ft.																		
	40	CPE148	CPE91	CPE75	CPE75	CPE75															
	45	CPE148	CPE91	CPE75	CPE75	CPE75															
	50	CPE148	CPE148	CPE91	CPE91	CPE75															
	55	CPE148	CPE148	CPE91	CPE91	CPE75															
	60	CPE148	CPE148	CPE148	CPE91	CPE75															
	65		CPE148	CPE148	CPE91	CPE75															
	70		CPE148	CPE148	CPE91	CPE75															
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95			CPE148																		

NESC Grade “C” Construction

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Soft Soil Depth “SSD” = 15 ft. </div>			Pole Length (ft.)	Pole Class				
				H1	1	2	3	4
Steel Size	“GSED” (min.)	“AG” (min.)	35	CPE148	CPE91	CPE75	CPE75	CPE75
CPE42	8 ft.	5 ft.	40	CPE148	CPE91	CPE75	CPE75	CPE75
CPE75	9.5 ft.	5 ft.	45	CPE148	CPE148	CPE91	CPE75	CPE75
CPE91	10.5 ft.	5.5 ft.	50	CPE148	CPE148	CPE91	CPE75	CPE75
CPE148	13 ft.	5.5 ft.	55	CPE148	CPE148	CPE148	CPE91	CPE75
<i>OTHER SIZES AVAILABLE ON REQUEST</i>			60		CPE148	CPE148	CPE91	CPE75
			65		CPE148	CPE148	CPE91	CPE75
			70		CPE148	CPE148	CPE148	CPE91
			75			CPE148	CPE148	
			80			CPE148	CPE148	
			85			CPE148	CPE148	
			90			CPE148		

Installation Procedure



1. Lower steel unit is driven next to pole.



2. Back splice plate is attached to the lower steel unit.



3. Upper steel unit is positioned on top of lower unit.



4. Splice channel is attached and secured with nuts and locknuts.



5. Steel SRS units are driven to desired depth.



6. Units are banded and caps are installed.

The **LWS** “Family of Steel”

Innovative, Patented Products Designed to Strengthen, Maximize and Extend the Life of the Electric Utility Infrastructure



PoleEnforcer[®]

U.S. PATENT NO. 6,123,456 CANADIAN PATENT NO. 2,345,678

- **REINFORCE** existing poles with thin shell or “no shell” at the groundline
- Save thousands of dollars by reinforcing poles that others reject
- Repair & reinforce burnt and broken poles



PHASERAISER[®]

U.S. PATENT NO. 5,123,456 CANADIAN PATENT NO. 2,345,678

- **RAISE** existing structures to increase conductor clearances while the line **REMAINS IN SERVICE**
- Increase line capacity and revenues
- Increase conductor clearance an additional 3 to 20 feet
- Save many thousands of dollars by avoiding an outage
- Patented systems available for both single pole



PRS

Pole Reclassification System[®]

- **RECLASSIFY** existing poles up to 3 or more classes
- Eliminate the cost of expensive pole change outs
- Reinforce groundline strength
- Use in transmission or distribution applications



1327 285th Road
Seward, NE 68434
Phone 800-949-3526
Fax 402-643-4374

Laminated Wood Systems, Inc.