

# PoleEnforcer SRS<sup>®</sup>

*Spliced Reinforcement System*

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

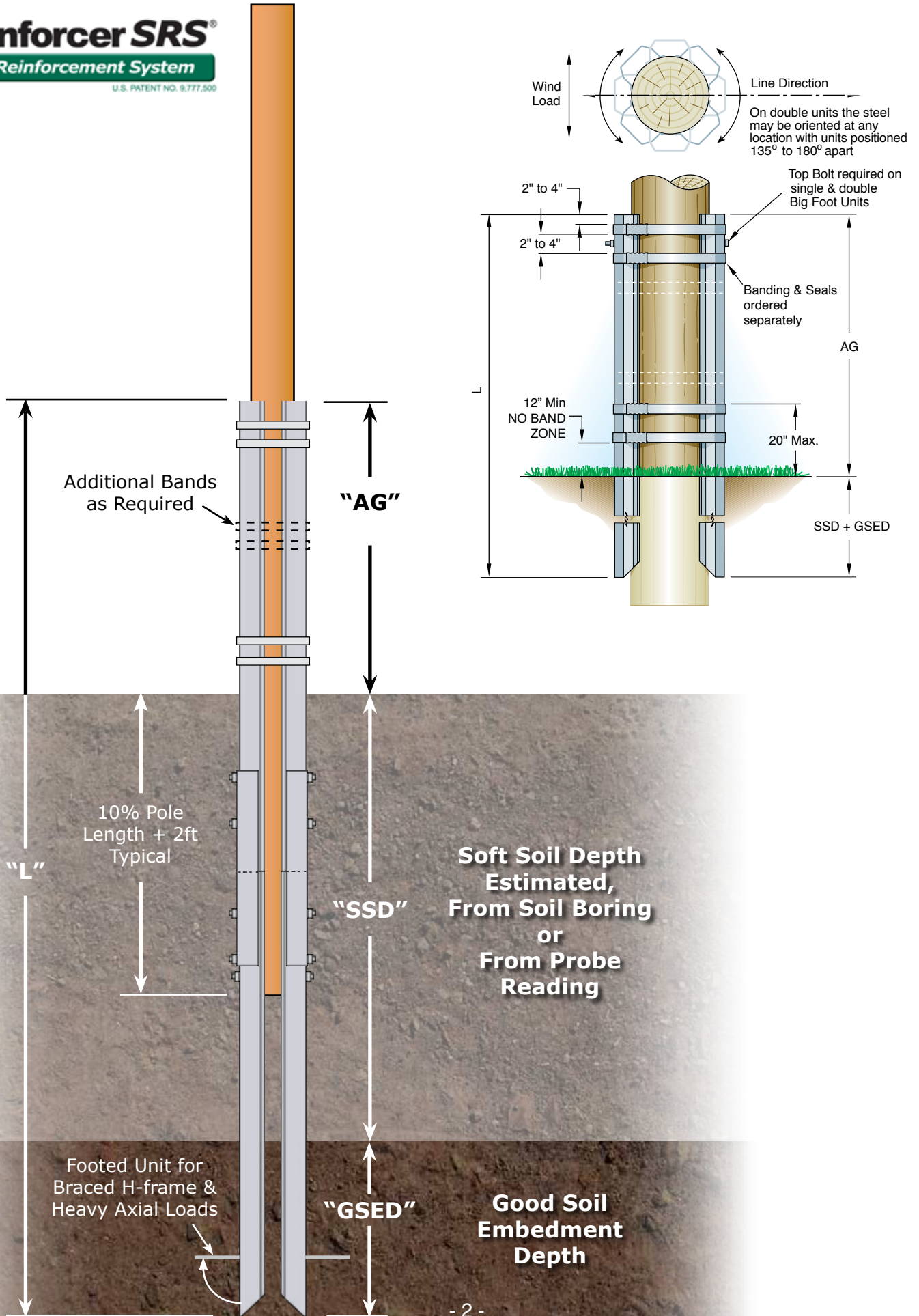
**Soft Soil  
Applications**

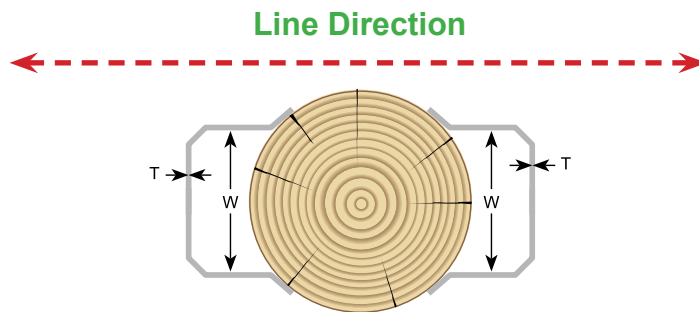


# LWS

[www.lwsinc.com](http://www.lwsinc.com)  
800-949-3526

**LWS**  
*Proudly Made in*  
**AMERICA**





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

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <b>Soft Soil Depth “SSD” = 10 ft.</b> </div>			Pole Length (ft.)	Pole Class				
				H1	1	2	3	4
			35	CPE75	CPE75	CPE75	CPE42	CPE42
			40	CPE75	CPE75	CPE75	CPE42	CPE42
			45	CPE91	CPE75	CPE75	CPE75	CPE42
			50	CPE91	CPE75	CPE75	CPE75	CPE42
			55	CPE148	CPE91	CPE75	CPE75	CPE75
			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		

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.

*OTHER SIZES AVAILABLE ON REQUEST*

**NESC Grade “B” Construction**

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <b>Soft Soil Depth “SSD” = 15 ft.</b> </div>			Pole Length (ft.)	Pole Class				
				H1	1	2	3	4
			35	CPE75	CPE75	CPE75	CPE42	CPE42
			40	CPE91	CPE75	CPE75	CPE75	CPE42
			45	CPE91	CPE91	CPE75	CPE75	CPE42
			50	CPE148	CPE91	CPE75	CPE75	CPE75
			55	CPE148	CPE91	CPE75	CPE75	CPE75
			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		

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.

*OTHER SIZES AVAILABLE ON REQUEST*

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															
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Soft Soil Depth “SSD” = 10 ft.			Pole Length (ft.)	Pole Class																	
				H1	1	2	3	4													
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	Steel Size	“GSED” (min.)	“AG” (min.)																		
	CPE42	8 ft.	5 ft.																		
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	50	CPE148	CPE148	CPE91	CPE91	CPE75															
	55	CPE148	CPE148	CPE91	CPE91	CPE75															
	60	CPE148	CPE148	CPE148	CPE91	CPE75															
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<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <b>Soft Soil Depth “SSD” = 15 ft.</b> </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**<sup>®</sup>

PATENT NO. 5,363,749

- **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**<sup>®</sup>

U.S. PATENT NOS. 6,116,886 & 6,151,886 CANADIAN PATENT NOS. 2,553,115 & 2,587,318

- **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**<sup>®</sup>

- **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



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**Laminated Wood Systems, Inc.**