

222 Cavalcade Street, 77009-3213  
P.O. Box 8768, Houston, Texas 77249-8768  
Tel: (713) 692-9151 Fax: (713) 696-6205

Attention: Sam Reese  
**Sunshine Enterprise, Inc.**  
2005 Fletcher Creek Dr.  
Memphis, TN 38133  
P: (901) 452-0188 / F: 901/452-8688

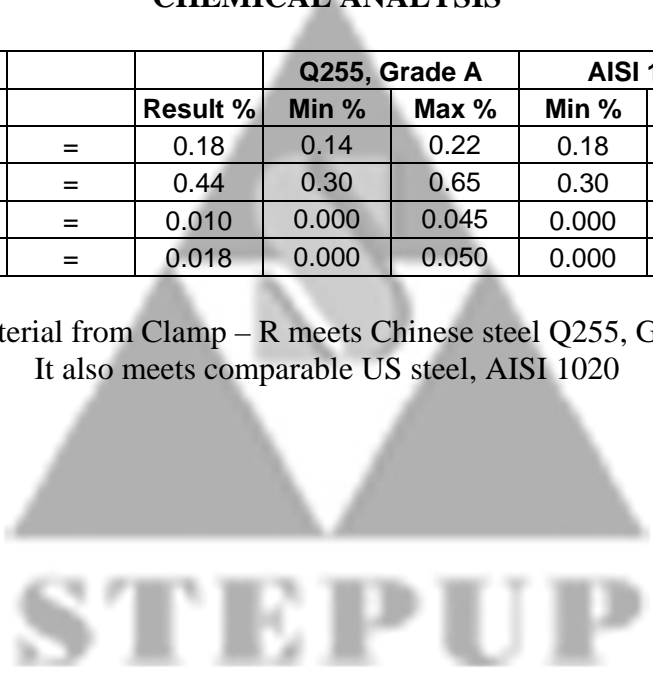
W/O. No.: SUN088-10-07-95830-1  
P.O. No.:  
Report Date: 10/11/2005

**Identification:** CLAMP - R  
**Description:** Right Angle Coupler

**CHEMICAL ANALYSIS**

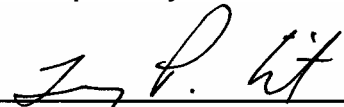
Element	=	Result %	Q255, Grade A		AISI 1020	
			Min %	Max %	Min %	Max %
C	=	0.18	0.14	0.22	0.18	0.23
Mn	=	0.44	0.30	0.65	0.30	0.60
P	=	0.010	0.000	0.045	0.000	0.040
S	=	0.018	0.000	0.050	0.000	0.050

The material from Clamp – R meets Chinese steel Q255, Grade A.  
It also meets comparable US steel, AISI 1020



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**Respectfully Submitted**

  
Terry Wilt  
Manager, Product Evaluation

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**Identification:** CLAMP – R: Right Angle Couplers  
**Test Method:** EN74  
**Quantity:** 2

Hexagonal head of clamp bolts are tightened to 38 ft. lbs. prior to loading for all tests.

**SLIP LOAD**

Coupler #	Slip Load (measured after 0.275" travel)
1	8,565 lbs.
2	5,124 lbs.
Average	6,845 lbs.

With 4:1 safety factor, the average slip load value is 1,711 lbs.

**ULTIMATE LOAD**

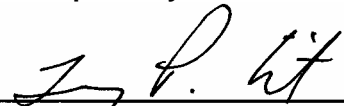
Coupler #	Ultimate Load	Failure Mode
1	14,580 lbs.	Deformation of pivot pin
2	15,150 lbs.	Deformation of pivot pin
Average	14,865 lbs.	---

With 4:1 safety factor, the average ultimate load value is 3,716 lbs.

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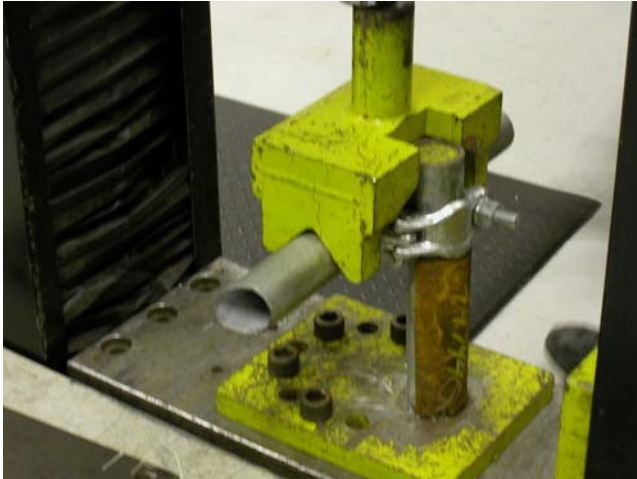
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Right angle coupler test configuration



Right angle #1. Ultimate load of 14,580 lbs



Right angle #2. Ultimate load of 15,150 lbs.

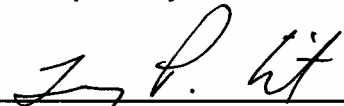


Right angle #2. Deformation of pivot pin, and forging around pivot pin

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