

# R.W. CONKLINSTEEL

100% Melted & Manufactured in the USA

1-888-CONKLIN (266-5546)

www.conklinsteel.com

# MATERIAL

Chemistries

## CHEMICAL PROPERTIES (%)

Steel Grade							
	ASTM A36	ASTM A572-50	ASTM A36/A572-50 MULTI CERT.	AISC A572-50 TECHNICAL BULLETIN #3	ASTM A992	ASTM A572-60	ASTM A572-65
<b>C</b>	0.26	0.23 max	0.23 max	0.23 max	0.23 max	0.26 max	0.23 max
<b>Mn</b>	—	1.50 max	1.50 max	1.50 max	1.50 max	1.50 max	1.65 max
<b>P</b>	0.04 max	0.04 max	0.035 max	0.035 max	0.035 max	0.04 max	0.04 max
<b>S</b>	0.05 max	0.05 max	0.045 max	0.045 max	0.045 max	0.05 max	0.05 max
<b>Si</b>	0.40 max	0.40 max	0.40 max	0.40 max	0.40 max	0.40 max	0.40 max
<b>Cu</b>	—	—	0.60 max	0.60 max	0.60 max	—	—
<b>Ni</b>	—	—	0.45 max	0.45 max	0.45 max	—	—
<b>Cr</b>	—	—	0.45 max	0.45 max	0.45 max	—	—
<b>Mo</b>	—	—	0.15 max	0.15 max	0.15 max	—	—
<b>Sn</b>	—	—	—	—	—	—	—
<b>V</b>	—	0.10-0.15	0.10-0.15	0.10-0.15	0.15 max	0.10-0.15	0.10-0.15
<b>Cb/Nb</b>	—	0.005-0.05	0.005-0.05	0.005-0.05	0.05 max	0.005-0.05	0.005-0.05

Other requirements such as Carbon Equivalent, Mn/S ratio may apply.

## PHYSICAL PROPERTIES

Steel Grade							
	ASTM A36	ASTM A572-50	ASTM A36/A572-50 MULTI CERT.	AISC A572-50 TECHNICAL BULLETIN #3	ASTM A992	ASTM A572-60	ASTM A572-65
<b>Fy (ksi)</b>	36 min	50 min	50 - 65	50 - 65	50 - 65	60 min	65 min
<b>Fu (ksi)</b>	58 - 80	65 min	65 - 80	65 min	65 min	75 min	80 min
<b>Elong %</b>	20 @ 8"	18 @ 8"	20 @ 8"	18 @ 8"	18 @ 8"	16 @ 8"	15 @ 8"
<b>Fy/Fu</b>	N/A	N/A	0.85 max	0.85	0.85 max	N/A	N/A

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## CHEMICAL PROPERTIES (%)

Steel Grade							
	ASTM A529-50	ASTM A588 A	ASTM A588 B	ASTM A588 C	ASTM A328* A	ASTM A690*	CSA G40.21-50W
<b>C</b>	0.27 max	0.19 max	0.20 max	0.15 max	—	0.22 max	0.23 max
<b>Mn</b>	1.50 max	0.80 - 1.25	0.75 - 1.35	0.80 - 1.35	—	0.60 - 0.90	0.50 - 1.50
<b>P</b>	0.04 max	0.04 max	0.04 max	0.04 max	0.035 max	0.08 - 0.15	0.04 max
<b>S</b>	0.05 max	0.05 max	0.05 max	0.05 max	0.04 max	0.04 max	0.05 max
<b>Si</b>	0.40 max	0.30 - 0.65	0.15 - 0.50	0.15 - 0.40	—	0.40 max	0.40 max
<b>Cu</b>	—	0.25 - 0.40	0.20 - 0.40	0.20 - 0.50	—	0.50 min	—
<b>Ni</b>	—	0.40 max	0.50 max	0.25 - 0.50	—	0.40 - 0.75	—
<b>Cr</b>	—	0.40 - 0.65	0.40 - 0.70	0.30 - 0.50	—	—	—
<b>Mo</b>	—	—	—	—	—	—	—
<b>Sn</b>	—	—	—	—	—	—	—
<b>V</b>	—	0.02 - 0.10	0.01 - 0.10	0.01 - 0.10	—	—	0.10 max
<b>Cb/Nb</b>	—	N/A	N/A	N/A	—	—	0.10 max

Other requirements such as Carbon Equivalent, Mn/S ratio may apply.

## PHYSICAL PROPERTIES

Steel Grade							
	ASTM A36	ASTM A572-50	ASTM A36/A572-50 MULTI CERT.	AISC A572-50 TECHNICAL BULLETIN #3	ASTM A992	ASTM A572-60	ASTM A572-65
<b>Fy (ksi)</b>	50 min	50 min	50 min	50 min	50 min	50 min	50 min
<b>Fu (ksi)</b>	65 min	70 min	70 min	70 min	70 min	70 min	65 - 90
<b>Elong %</b>	N/A	18 @ 8"	18 @ 8"	18 @ 8"	18 @ 8"	16 @ 8"	19 @ 8"
<b>Fy/Fu</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*A328 applies only to Sheet Pile. A690 applies only to H-Pile and Sheet Pile.