

**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>AUSTRALIA</u>					
Bluescope Steel (AIS) Ltd., Port Kembla Works (Ex- B.H.P.)		Plates(AR) <i>*Al Treated</i>	AH32*	35mm	CC
			DH32*	25mm	CC
			<i>*Al Treated</i>		
		Plates(CR, TMCP) <i>*Al Treated</i>	A,B,D*	50mm	CC
		Plates(N) <i>*Al Treated</i>	E*	27mm	CC
	Slabs <i>*Al Treated</i>	AH/DH/EH36*	230mm	CC	
<u>AUSTRIA</u>					
*** Voestalpine Grobblech GmbH		Plates(AR) <i>*Al Treated</i>	A,B	51mm	CC
		Plates(CR) <i>*Al Treated</i>	A,B,D	51mm	CC
		Plates(N) <i>*(Al+Nb) Treated</i>	A,B,D	51mm	CC
			AH,DH, EH32/36 Z35*	80mm	CC
		<i>*(Al+Nb) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

Shapes also include Bars; (AR)-As Rolled; (N)-Normalized; (Q&T)-Quenched & Tempered
(CR)-Control Rolled; (TMCP)-Thermomechanical Control Processed; (AC) Accelerated Cooling
(XXX)-Mill Designation for Special Rolling Process
All-Ordinary and Higher Strength, excluding H40 and FH
AH,DH,EH - H32 and H36, unless indicated otherwise
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<u>AUSTRIA</u>					
		Plates(N)	AH,DH, EH32/36*	51mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	40mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH32/36*	20mm	CC
		<i>*Al Treated</i>			
		Plates(TMCP)	AH,DH EH32/36 Z35*	51mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH,EH,FH 32/36/40 Z35*	51mm	CC
		<i>*(Al+Nb) Treated</i>			
			AQ,DQ,EQ, FQ43 Z35*	51mm	CC
		<i>*(Al+Nb) Treated</i>			
		Plates(TMCP+AC)	AH,DH,EH,FH 32/36/40 Z35*	100mm	CC
		<i>*(Al+Nb) Treated</i>			
			AQ,DQ,EQ, FQ43 Z35*	100mm	CC
		<i>*(Al+Nb) Treated</i>			

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<u>BELGIUM</u>					
*** Industeel Belgium ArcelorMittal Group		Plates(Q&T)	AQ,DQ,EQ, FQ70*	90mm	CC
		<i>*(Al+V) Treated</i>			
		Shapes(Q&T)	AQ,DQ,EQ, FQ70*	90mm	CC
		<i>*(Al+V) Treated</i>			
*** NLMK Clabecq S.A.		Plates(AR)*	A,B	51mm	CC
		<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>			
			A,B,D	35mm	CC
		<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>			
			AH,DH32/36	35mm	CC
		<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>			
			AH32/36	51mm	CC
		<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>			
		Plates(CR+AC)*	A,B,D,E	25mm	CC
	<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>				
			AH,DH, EH32/36	25mm	CC
	<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>				
		Plates(N)*	A,B,D,E	100mm	CC
	<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>				
			AH,DH, EH32/36	100mm	CC
	<i>*Slab Supplier: Novolipetsk Iron and Steel Corporation</i>				

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<u>BRAZIL</u>					
ArcelorMittal Tubarão		Plate from coil (AR) <i>*Al Treated</i>	A, B*	19mm	CC
			AH32*	16mm	CC
			<i>*Al Treated</i>		
		Plate from coil(AR) <i>*Al Treated</i>	A, B, D*	16mm(max) 6.3mm(min)	CC
		Slabs <i>*Al Treated</i>	A,B,D*	250mm(t) x 1880mm(w)	CC
Gerdau Açominas S/A, Ouro Branco			AH,DH, EH32/36*	250mm(t) x 1880mm(w)	CC
		<i>*Al Treated</i>			
		Slabs <i>*Al Treated</i>	A,B,D*	250mm x 2100mm	CC
ThyssenKrupp Companhia Siderurgica do Atlantico			A,B,D*	450mm	IC
		<i>*Al Treated</i>			
*** Usinas Siderurgica de Minas Gerais,SA Ipatinga		Slabs	A,B,D	255mm	CC
		Plate from Coil(CR)	A	12.5mm	CC
		Plates(AR)	A,B	51mm	CC
		<i>*Al Treated</i>	A,B,D*	35mm	CC

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<u>BRAZIL</u>					
*** Usinas Siderurgica de Minas Gerais,SA-USIMINAS, Cubatao		Plates(AR) <i>*Al Treated</i>	AH,DH32*	35mm	CC
			AH,DH32/36*	12.5mm	CC
		<i>*(Al+V) Treated</i>			
		Plates(N) <i>*Al Treated</i>	A,B,D*	51mm	CC
			AH,DH, EH32/36*	51mm	CC
		<i>*Al / (Al+V) / (Al+Nb+V) / (Al+Ti) Treated</i>			
		Plates(TMCP) <i>*(Al+Nb+Ti) Treated</i>	AH,DH,EH40*	50mm	CC
		Plates(TMCP/CL) <i>*(Al+Nb+Ti) Treated</i>	AH,DH32/36*	50mm	CC
		Plates(AR) <i>*Al Treated</i>	A,B,D*	51mm	CC
		Plates(N) <i>*(Al+Nb) Treated</i>	A,B,D,E*	76mm	CC
		AH,DH, EH32/36*	76mm	CC	
	<i>*(Al+Nb) Treated</i>				
	Plates(TMCP) <i>*(Al+Nb) Treated</i>	AH,DH32/36*	51mm	CC	

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<u>BULGARIA</u>					
Stomana Industry S.A., Pernik		Plates(AR) <i>*Al Treated</i>	A*	40mm	CC
<u>CANADA</u>					
*** Essar Steel Algoma Inc.		Plates(AR) <i>*Al Treated</i>	A,B*	51mm	CC
		<i>*Al Treated</i>	D*	35mm	CC
		Plates(N) <i>*(Al+Nb+V) Treated</i>	AH,DH,EH32/3	70mm	CC
*** Gerdau Ameristeel - Manitoba		Blooms/Billets	A	200mm x 355mm	CC
			AH 32/36 *	200mm x 265mm	CC
			<i>* V Treated</i>		
*** Gerdau Ameristeel - Whitby		Shapes (AR)	A,B	19 mm (0.75 inch)	CC
<u>CZECH REPUBLIC</u>					
Evrz Vitkovice Steel A.S., Ostrava		Plates(AR)	A	65mm	CC
		Plates(CR)	A,B	51mm	IC & CC
			AH32/36	40mm	CC
		Plates(N)	A, B, D	40mm	IC & CC

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<u>CZECH REPUBLIC</u>					
		Plates(N) <i>*Al & Nb</i>	A, B, D, E*	40mm	IC & CC
			A, B, DZ35	25mm	CC
			AH,DH, EH32/36*	40mm	IC & CC
		<i>*Al + Nb</i>			
			AH,DH32/36	40mm	IC & CC
			AH,DH32/36 Z35	25mm	CC
			AH,DH32/36*	40mm	CC
		<i>*Al + Nb</i>			
Trienecke Zelezarny A.S.		Blooms <i>*(Al +Nb) Treated</i>	A,B,D,E*	-	CC
			AH,DH, EH32/36*	-	CC
		<i>*(Al +Nb) Treated</i>			
Vitkovice Steel A.S., Ostrava		Plates(AR+N)	AH 32/36	60mm	CC
			DH 32/36	60mm	CC
<u>DENMARK</u>					
Duferco-Danish Steel A.S		Shapes, Sections (AR)	A	40mm	CC
			AH,DH32/36	40mm	CC

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<u>DENMARK</u>					
*** NLMK Dansteel A/S, Frederiksvaerk		Plates(AR)*	A**	100mm	CC
		<i>*Slab Source: Novolipetsk Steel (NLMK). **Al Treated.</i>			
			A,B**	40mm	CC
		<i>*Slab Source: Novolipetsk Steel (NLMK). **Al Treated.</i>			
			AH32/36**	12.5mm	CC
	<i>*Slab Source: Novolipetsk Steel (NLMK). **(Al+V+Ti) Treated.</i>				
		Plates(N)*	A,B,D**	100mm	CC
	<i>*Slab Source: Novolipetsk Steel (NLMK). **Al / (Al+Nb) Treated.</i>				
			A,B,D,E**	60mm	CC
	<i>*Slab Source: Novolipetsk Steel (NLMK). **Al / (Al+Nb) Treated.</i>				
		AH,DH, EH32/36**		60mm	CC
	<i>*Slab Source: Novolipetsk Steel (NLMK). **Al / (Al+Nb) / (Al+V) Treated.</i>				
<u>FINLAND</u>					
*** Rautaruukki Oyj		Plate from Coil(CR)	A,B,D	15mm	CC
			AH,DH32/36	15mm	CC
		Plate from Coil(TMCP)	E	15mm	CC
			EH32/36	15mm	CC

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<u>FINLAND</u>					
		Plates(AR)	A,B,D,E	51mm	IC & CC
		<i>*Slabs are to be from the same ABS approved source used during qualification.</i>			
			AH,DH, EH32/36	51mm	IC & CC
		<i>*Slabs are to be from the same ABS approved source used during qualification.</i>			
		Plates(CR)	A,B,D	35mm	CC
		Plates(N)	A,B,D,E Z25	150mm	CC
			A,B,D,E Z35	100mm	CC
			AH,DH, EH32/36 Z25	150mm	CC
			AH,DH, EH32/36 Z35	100mm	CC
			AH,DH,EH40	40mm	CC
		Plates(TMCP w/AC)	AH,DH, EH32/36	76mm	CC
			AQ/DQ/EQ43	60mm	CC
			AQ/DQ/EQ47	65mm	CC
			AQ/DQ/EQ51	40mm	CC
		Plates(TMCP w/o AC)	AH,DH, EH32/36	40mm	CC
			AQ/DQ/EQ43	30mm	CC
			AQ/DQ/EQ47	20mm	CC

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<u>FINLAND</u>					
		Plates(TMCP w/o AC)	AQ/DQ/EQ51	20mm	CC
<u>FRANCE</u>					
*** GTS Industries Dunkerque		Plates(AR)* <i>*Slab Source - Dillinger Hutte Mill, Germany</i>	A	51mm	CC
		Plates(CR)	AH,DH32/36	24mm	CC
			AH,DH32/36 Z35	24mm	CC
		Plates(N)	A, B, D, E	51mm	CC
			AH,DH, EH32/36	70mm	CC
		Plates(TMCP)	AH,DH, EH32/36	76mm	CC
		Plates(TMCP+AC)	AH,DH, EH32/36	76mm	CC
*** Industeel Chateaufeuf, ArcelorMittal Group		Plates (Q&T) <i>*Al Treated</i>	AQ,DQ,EQ, FQ70 Z35*	210mm	IC
*** Industeel Creusot, ArcelorMittal Group		Plates (Q&T) <i>*Al Treated</i>	AQ,DQ,EQ, FQ70 Z35*	186mm	IC
<u>GERMANY</u>					
*** AcelorMittal Breman GmbH		Coiled Plate(AR) <i>*Al Treated</i>	A,B,D*	20mm	CC

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<u>GERMANY</u>					
*** Dillinger Huttenwerke, Dillingen (Saar)		Plates(AR) <i>*Al Treated</i>	A,B*	51mm	IC & CC
			A,B,D*	35mm	IC & CC
			AH32/36* <i>*Al / (Al+Nb) Treated</i>	51mm	CC
			DH32/36* <i>*Al / (Al+Nb) Treated</i>	35mm	CC
		Plates(N) <i>*Al / (Al+Nb) Treated</i>	A,B,D,E*	51mm	CC
			AH,DH, EH32/36* <i>*Al / (Al+Nb) Treated</i>	65mm	CC
			V-057 <i>*Al / (Al+Nb) Treated</i>	51mm	IC & CC
		Plates(Q&T) <i>*Al / (Al+Nb) / (Al+V) Treated</i>	AQ,DQ,EQ, FQ43*	200mm	IC & CC
		Plates(TMCP) <i>*Al / (Al+Nb) / (Al+Nb+Ti) Treated</i>	AH,DH,EH 32/36/40*	25mm	CC
		Plates(TMCP+AC) <i>*Al / (Al+Nb) / (Al+Nb+Ti) Treated</i>	AH,DH,EH,FH 32/36/40*	100mm	CC

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<u>GERMANY</u>					
HSP Hoesch Spundwand und Profil GmbH		Shapes(AR)*	A,B,D,E**	20mm	CC
		<i>*Slab Source: Duferco Clabecq S.A. **Al Treated</i>			
		AH,DH,EH32/3		20mm	CC
		<i>*Slab Source: Duferco Clabecq S.A. **Al Treated</i>			
*** Ilsenburger Grobblech GmbH		Plates(CR)	A,B,D	40mm	IC & CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
		AH,DH32/36		30mm	IC & CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
		Plates(N)	A,B,D	130mm	IC & CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
		AH,DH, EH32/36		100mm	CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
		AH,DH,EH, FH32/36		51mm	IC & CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
		E		51mm	IC & CC
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<u>GERMANY</u>					
		Plates(TMCP & ACC)	AH,DH,EH 32/36/40 Z35	120mm	CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
		Plates(TMCP)	AH,DH,EH32/3	70mm	IC & CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
			AH,DH,EH40	50mm	CC
		<i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>			
Reiner Brach GmbH & Co., KG., Bremen		Plates(Q & T)	AQ,DQ,EQ70	150mm	-
Salzgitter Flachstahl GmbH		Slab, Bloom, Billet	A,B,D,E	350mm	CC
			AH,DH,EH, FH32/36	350mm	CC
			AH,DH,EH, FH40	350mm	CC
*** ThyssenKrupp Steel AG (Duisburg)		Plate from Coil (AR, CR)	All	25mm	IC & CC
		Plates (TMCP+AC)	AH,DH, EH32/36	70mm	CC
			AH,DH,EH40	60mm	CC
		Plates(AR, CR, N)	All	51mm	IC & CC
		Plates(Q&T)	AQ,DQ,EQ70	60mm	IC & CC

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AH,DH,EH - H32 and H36, unless indicated otherwise
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**AMERICAN BUREAU OF SHIPPING
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>INDIA</u>					
Essar Steel Ltd., Surat		Coil Plate(AR)	A,B*	20mm (4mm min)	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	8mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	20mm (8mm min)	CC
		<i>*(Al+V+Nb) Treated</i>			
		Plate(AR)	A,B,D*	10mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	10mm	CC
		<i>*(Al+Nb+V) Treated</i>			
Jindal Steel and Power Ltd., Raigarh, Chattishgarh		Plate(N)	A,B,D,E*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
			AH,DH, EH32/36*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Plate(TMCP)	A,B,D*	70mm	CC
		<i>*Al Treated</i>			
		AH,DH32/36*	40mm	CC	
	<i>*(Al+Nb+V) Treated</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

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<u>INDIA</u>					
		Plates(CR) <i>*Al Treated</i>	A,B,D*	70mm	CC
			AH,DH32/36*	70mm	CC
			<i>*(Al+V) Treated</i>		
		Shapes(AR)	A,B	44.1mm	CC
JSW ISPAT Steel Ltd., Pen, Raigad		Plate from coil(TMCP)	A,B	12mm	CC
JSW Steel Ltd., Torangallu, Karnataka		Slab	A, B, D, E	220mm(t) x 1600(w)	CC
			AH,DH, EH32/36	220mm(t) x 1140(w)	CC
Sanvijay Rolling and Engineering Ltd., Nagpur		Equal/Unequal Angles(AR)*	A	12mm	CC
			<i>*Billet Source: Tata Steel Limited</i>		
		Flat Bar(AR)*	A, B	32mm	CC
			<i>*Billet Source: Steel Authority of India</i>		
Steel Authority of India, Ltd., Bhilai Works		Plates(AR) <i>Al Treated</i>	A	51mm	IC & CC
			A,B*	50mm	CC
			<i>*Al Treated</i>		
		Plates(N)	A,B,D*	25mm	CC
		<i>*(Al+Nb) Treated</i>			
			A,B,D*	50mm	CC
		<i>*Al Treated</i>			

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<u>INDIA</u>					
Welspun Corp. Ltd., - Plate and Coil Mills Division, Gujarat		Plates(N) <i>Al / (Al+V) / (V+Nb) Treated</i>	AH,DH, EH32/36	50mm	CC
		Plates(AR)*	A,B,D** <i>*Slab Source: JSW Steel Ltd., Karnataka. **Al Treated</i>	35mm	CC
			AH,DH32** <i>*Slab Source: JSW Steel Ltd., Karnataka. **Al Treated</i>	25mm	CC
		Plates(TMCP)*	A,B,D** <i>*Slab Source: JSW Steel Ltd., Karnataka. **Al Treated</i>	50mm	CC
<u>INDONESIA</u>					
P.T. Gunawan Dianjaya		Plates(AR)	A,B,D	50mm	CC
		Plates(CR)	AH,DH32/36	50 mm	CC
*** P.T. Gunung Raja Paksi Plate Mill, Jakarta		Coil Plate (AR)	A, B* <i>*Al Treated. Slab Supplier: Azovstal Iron & Steel, Ukraine</i>	20mm	CC
		Coil Plate (CR)	AH,DH32/36* <i>*(Al+Nb) Treated. Slab Supplier: Arcelormittal Tubarão, Brazil</i>	20mm	CC
		Plate from Coil (AR)	A <i>*Al Treated. Slab Supplier: Azovstal Iron & Steel, Ukraine</i>	12mm	CC
		Plates (AR)*	A** <i>*Slabs are to be from the same ABS approved source used during qualification. **Al Treated.</i>	50mm	CC

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<u>INDONESIA</u>					
		Plates (AR)*	B**	25mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. **Al Treated.</i>			
		Plates (CR)	A,B,D	50mm	CC
			AH,DH36	50mm	CC
		<i>Azovstal Iron & Steel Works, Ukraine (ABS Approved Source)</i>			
		Plates (N)	AH,DH,EH, FH32/36 Z35*	60mm	CC
		<i>*(Al+Nb) Treated. Slab Supplier: Arcelormittal Tubarão, Brazil</i>			
			AH,DH36	50mm	CC
		<i>Azovstal Iron & Steel Works, Ukraine (ABS Approved Source)</i>			
		Plates (TMCP)	AH,DH, EH32/36*	50mm	CC
		<i>*(Al+Nb) Treated. Azovstal Iron & Steel Works, Ukraine (ABS Approved Source)</i>			
			AH,DH,EH40	30mm	CC
		<i>Azovstal Iron & Steel Works, Ukraine (ABS Approved Source)</i>			
PT Krakatau Steel (Persego), Cilegon		Plates (TMCP)	A	20mm	CC
			AH32/36	20mm	CC
<u>ITALY</u>					
Acciaierie Bertoli Safau		Bar Stock	R3*	100mm	IC / CC
		<i>*Al / V / Nb Treated</i>			

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<u>ITALY</u>					
AFV Acciaierie Beltrame SPA, Marghera		Shapes(AR)*	A,B,D**	30mm	CC
		<i>*Angle, Unequal Angle, Flat, Bulb Flat. **V Treated</i>			
		AH,DH32/36**		30mm	CC
		<i>*Angle, Unequal Angle, Flat, Bulb Flat. **V Treated</i>			
AFV Acciaierie Beltrame SPA, Vicenza		Shapes(AR)*	A,B,D**	20mm	CC
		<i>*Angle, Unequal Angle, Flat, Bulb Flat. **V Treated</i>			
		AH,DH32/36**		20mm	CC
		<i>*Angle, Unequal Angle, Flat, Bulb Flat. **V Treated</i>			
Metinvest Trameal S.p.A., San Giorgio di Nogaro		Plates(AR)*	A,B**	35mm	-
		<i>*Slab Source: Novolipetsk Steel, Lipetsk, Russia & Azvostal Steel, Ukraine. **Al Treated</i>			
		AH36**		25mm	-
		<i>*Slab Source: Novolipetsk Steel, Lipetsk, Russia & Azvostal Steel, Ukraine. **Al Treated</i>			
		Plates(CR)*	A,B,D**	40mm	-
		<i>*Slab Source: Azovstal Steel, Ukraine, Novolipetsk Steel, Lipetsk, Russia & Ekostahl Steel, Germany. **Al Treated</i>			
		AH,DH32/36**		40mm	-
		<i>*Slab Source: Azovstal Steel, Ukraine, Novolipetsk Steel, Lipetsk, Russia, SSAB Swedish Steel, Sweden & Ekostahl Steel Germany. **Al Treated</i>			
		Plates(N)*	AH,DH,EH32/3 Z35**	50mm	-
		<i>*Slab Source: SSAB Swedish Steel, Sweden & Ekostahl Steel Germany. ** Al Treated</i>			

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<u>JAPAN</u>					
Chubu Steel Plate Co., Ltd, Nagoya Works		Plates(AR)	A,B	51mm	CC
		Plates(CR)	A,B,D	50mm	CC
			AH,DH32/36	50mm	CC
Daisan Seiko Co., Ltd., Shinsuna Works, Tokyo		Bars(AR)	A,B	28mm	CC
		Slab	AH36	170 mm x 285 mm	CC
JFE Bars & Shapes Corporation, Himeji Works		Bloom	A	300mm	CC
		Sections(AR)	A	32mm	CC
			A,B,D*	25mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	12.5mm	CC
		<i>*(Al+V) Treated</i>			
			AH32/36*	32mm	CC
		<i>*(Al+V) Treated</i>			
		Sections(N)	A,B,D,E*	25mm	CC
		<i>*Al Treated</i>			
JFE Bars & Shapes Corporation, Kashima Works			AH,DH, EH32/36*	25mm	CC
		<i>*(Al+V) Treated</i>			
		Shapes (Angles, Flat Bars) (AR)	A*	32mm	CC
		<i>*Al Treated</i>			

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		<u>JAPAN</u>			
*** JFE Steel Corp., Fukuyama Works		Shapes (Angles, Flat Bars) (AR) <i>*(Al+V) Treated</i>	AH,DH, EH32/36*	32mm	CC
		Differential Thickness Plates(AR) <i>*Approved Condition</i>	A,B*	51mm	CC
			AH,DH32/36*	26mm	CC
		<i>*Al Treated</i>			
			AH32/36*	51mm	CC
		<i>*Al/(Al+V)/(Al+Nb) Treated</i>			
			D*	35mm	CC
		<i>*Approved Condition</i>			
		Differential Thickness Plates(CR) <i>*Approved Condition</i>	A,B,D*	51mm	CC
			AH,DH32/36*	51mm	CC
		<i>*Al Treated</i>			

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		<u>JAPAN</u>			
		Differential Thickness Plates(N) <i>*Approved Condition</i>	A,B,D,E*	51mm	CC
			AH,DH, EH32/36*	51mm	CC
		<i>*Al/(Al+V)/(Al+Nb) Treated</i>			
		Hot Rolled Coil(AR) <i>*Al Treated</i>	A*	8mm	CC
			AH32*	8mm	CC
		<i>*Al Treated</i>			
		Plates(AR) <i>*Al Treated</i>	A,B Z35*	70mm	CC
			A,B,D Z35*	35mm	CC
		<i>*(Si+Mn) Treated</i>			
			AH,DH32/36 Z35*	26mm	CC
		<i>*(Cu+Ni+Cr)/(Al+V) Treated</i>			
			AH32*	51mm	CC
		<i>*(Si+Mn)/(Cu+Ni)/(Ti+Cu+Ni) Treated</i>			
			AH32/36 Z35*	51mm	CC
		<i>*(Cu+Ni+Cr)/(Al+V) Treated</i>			

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<u>JAPAN</u>					
		Plates(AR) <i>*(Si+Mn)/(Cu+Ni)/(Ti+Cu+Ni) Treated</i>	DH32 Z35*	26mm	CC
		Plates(CR) <i>*Al Treated</i>	A,B,D Z35*	70mm	CC
			AH,DH32 Z35*	51mm	CC
			AH,DH32/36 Z35*	51mm	CC
			A,B,D,E*	70mm	CC
			AH,DH, EH32/36 Z35*	51mm	CC
			AH,DH, EH32/36*	51mm	CC
			AH,DH,EH32*	51mm	CC
		Plates(Q&T) <i>*(Al+Nb) Treated</i>	AQ,DQ,EQ51*	40mm	CC
			AQ,DQ,EQ56 Z35*	38mm	CC

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<u>JAPAN</u>					
		Plates(TMCP & ACC)	EH47	80mm	CC
		Plates(TMCP)	AH,DH,EH,FH 32/36/40 Z35*	80mm	CC
		<i>*Al Treated</i>			
			AH,DH,EH,FH 32/36/40*	80mm	CC
		<i>*Al Treated</i>			
			V-039, V-051, V-060*	42mm	CC
		<i>*Al Treated</i>			
			VH-039, VH-051, VH-060*	42mm	CC
		<i>*Al Treated</i>			
		Plates(TMCP)	A,B,D,E Z35*	100mm	CC
		<i>*Al Treated</i>			
			A,B,D,E*	120mm	CC
		<i>*Al Treated</i>			
		Shape (AR)	A*	17mm	CC
		<i>*Bloom Source: JFE Bars & Shapes Corp. - Himeji</i>			
		Shapes(AR)	A,B,D*	35mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	12.5mm	CC
		<i>*(Al+V) Treated</i>			

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		<u>JAPAN</u>			
		Shapes(AR) <i>*(Al+V) Treated</i>	AH32/36*	26mm (35mm Hsection)	CC
		Shapes(N) <i>*Al Treated</i>	A,B,D,E*	35mm	CC
			AH,DH, EH32/36*	35mm	CC
			<i>*(AL+V)/(Al+Nb) Treated</i>		
		Shapes(TMCP) <i>*Al Treated</i>	A,B,D,E*	18mm	CC
			AH,DH, EH32/36*	36mm	CC
			<i>*(AL+V)/(Al+Nb) Treated</i>		
			AH,DH, EH32/36/40*	18mm	CC
			<i>*Al/(Al+Nb)</i>		
			V-039, V-051, V-060*	18mm	CC
			<i>*Al Treated</i>		
			VH-039, VH-051, VH-060*	18mm	CC
			<i>*Al / (Al+Nb) Treated</i>		
*** JFE Steel Corp., Kurashiki (Ex - Kawasaki Steel, Mizushima)		Coiled	A,B	16mm	IC & CC

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<u>JAPAN</u>					
		DTP**(AR)	A,B,D	35mm	IC & CC
		<i>**Differential thickness plate 10mm maximum thickness difference.</i>			
			AH32	35mm	IC & CC
			DH32	25mm	IC & CC
		DTP**(CR)	A,B,D	50mm	IC & CC
		<i>**Differential thickness plate 10mm maximum thickness difference.</i>			
			AH32,DH32	51mm	IC & CC
		DTP**(TMCP)	AH32, DH32	51mm	IC & CC
		<i>**Differential thickness plate 10mm maximum thickness difference.</i>			
			AH36,DH36	25mm	CC
		<i>**Differential Thickness Plate, 6mm maximum difference.</i>			
		LTP* (TMCP)	AH,DH, EH32/36	50mm	CC
		<i>*Longitudinal tapered plate, 8mm/meter maximum.</i>			
		LTP*(AR)	A,B,D	50mm	CC
		<i>*Longitudinal tapered plate, 1mm/meter maximum.</i>			
		LTP*(CR)	A,B,D	50mm	CC
		<i>*Longitudinal tapered plate, 8mm/meter maximum.</i>			
		Plates (AR)	A,B	50mm	IC & CC
			D	35mm	IC & CC
		Plates (N)	A,B	230mm	IC
			A,B,D Z35	155mm	CC

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<u>JAPAN</u>					
		Plates (N)	AH,DH, EH32/36	150mm	IC
			AH,DH, EH32/36	100mm	CC
			D,E	200mm	IC
			E	100mm	CC
		Plates (TMCP)	A,B,D,E	100mm	CC
			AH,DH, EH32/36	100mm	IC & CC
			AH/DH/EH40	80mm	CC
			AH/DH/EH40	50mm	IC
		Plates (TMCP+AC)	FH32/36	40mm	CC
		Plates(AR)	AH32/36	51mm	IC & CC
		Plates(CR)	AH32/36	50mm	CC
			DH32/36	40mm	IC
			DH32/36	50mm	CC
		Plates(Q&T)	AQ,DQ, EQ51/56 Z35*	108mm	CC
		<i>*(Al+V) Treated</i>			
			AQ,DQ, EQ63/70*	64mm	CC
		<i>*(Al+Nb) Treated</i>			
			AQ/DQ/EQ56	57mm	CC
			AQ/DQ/EQ70*	155mm	CC
		<i>*Al Treated</i>			
			EQ51	32mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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AH,DH,EH - H32 and H36, unless indicated otherwise
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**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
*** JFE Steel Corporation, East Japan Works(Keihin)		Plates(Q&T)	EQ63	108mm	CC
		Plates(Q&T)*	AQ/DQ/EQ56**	51mm	CC
		<i>*Direct Quenched & Tempered. (Al+V) Treated</i>			
		Sections	A	28mm	IC & CC
		Plates (AR+OLAC)	AH32/36	35mm	IC & CC
		<i>Al / (Al+Nb) Treated, OLAC - On-Line Accelerated Cooling</i>			
			DH32/36	26mm	IC & CC
		<i>Al Treated, OLAC - On-Line Accelerated Cooling</i>			
			DH32/36	13mm	IC & CC
		<i>(Al+Nb) Treated, OLAC - On-Line Accelerated Cooling</i>			
		Plates (CR+OLAC)	AH,DH40	83mm	CC
		<i>(V+Nb) Treated, OLAC - On-Line Accelerated Cooling</i>			
		AH,DH40	90mm	IC	
	<i>(V+Nb) Treated, OLAC - On-Line Accelerated Cooling</i>				
	Plates(AR)	A,B	51mm	IC	
		A,B	38mm	CC	
		AH32	38mm	CC	
		AH32	51mm	IC	
		AH36	42mm	IC	
	<i>(Al+V) Treated</i>				

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		<u>JAPAN</u>			
		Plates(AR) <i>(Al+V) Treated</i>	AH36	38mm	CC
			D	35mm	IC & CC
			DH32	26mm	IC & CC
			DH36	19mm	IC & CC
		<i>(Al+V) Treated</i>			
		Plates(CR) <i>(V+Nb) Treated</i>	AH,DH40	20mm	IC & CC
			AH36	51mm	IC
		<i>(Al+V) Treated</i>			
			D	40mm	iC
			D	38mm	CC
			DH32	38mm	CC
			DH32	40mm	IC
			DH36	38mm	CC
		<i>(Al+V) Treated</i>			
			DH36	51mm	IC
		<i>(Al+V) Treated</i>			
		Plate from Coil (AR)	A,B	19mm	IC & CC
		Plates (CR+OLAC)	AH,DH 32/36/40	65mm	IC & CC
		<i>(Al+Ti) Treated, OLAC - On-Line Accelerated Cooling</i>			

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<u>JAPAN</u>					
		Plates (CR+OLAC) <i>Al / (Al+Nb) Treated, OLAC - On-Line Accelerated Cooling</i>	AH,DH32/36	50mm	IC & CC
		Plates(N) <i>Al Treated</i>	A,B,D,E	83mm	CC
		<i>Al treated</i>	A,B,D,E	100mm	IC
			AH,DH, EH32/36	51mm	IC & CC
		<i>Al / (Al+Nb) Treated</i>			
		Plates(TMCP (NCT-Type I)) <i>(V+Nb) Treated</i>	AQ,DQ43	20mm	IC & CC
			E	42mm	IC & CC
		<i>Al Treated</i>			
			EH32/36	42mm	IC & CC
		<i>Al / Nb Treated</i>			
			EH40	20mm	IC & CC
		<i>(Nb+Ti) Treated</i>			
			EQ43	25mm	IC & CC
		<i>(V+Nb+Ti) Treated</i>			

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<u>JAPAN</u>					
		Plates(TMCP (NCT-Type I)) <i>Al Treated</i>	V-039,V-051, V-060	42mm	CC
			VH-039,VH-05 VH-060	42mm	CC
		<i>Al Treated</i>			
		Plates(TMCP (NCT-Type II)) <i>(V+Nb) Treated</i>	AQ,DQ43	83mm	IC & CC
			EH32/36	90mm	IC
		<i>(Nb+V+Ti) Treated</i>			
			EH32/36	83mm	CC
		<i>(Nb+V+Ti) Treated</i>			
			EH32/36	50mm	IC & CC
		<i>Al / (Al+Nb) Treated</i>			
			EH32/36/40	65mm	IC & CC
		<i>(Al+Ti) Treated</i>			
			EH40	90mm	IC
		<i>(V+Nb+Ti) Treated</i>			
			EH40	83mm	CC
		<i>(V+Nb+Ti) Treated</i>			

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<u>JAPAN</u>					
*** Kobe Steel Kakogawa Plant		Plates(TMCP (NCT-Type II)) (V+Nb+Ti) Treated	EQ43	83mm	IC & CC
		Slabs Al Treated	A,B,D,E	250 mm	CC
			AH,DH,EH 32/36/40	250 mm	CC
			Al Treated		
		DTP*(AR)	A,B	51mm	IC & CC
		<i>*Differential thickness plate,two thicknesses where the maximum thickness differential is 5mm.</i>			
		DTP*(N)	A,B,D,E**	51mm	IC & CC
		<i>*Differential thickness plate,two thicknesses where the maximum thickness differential is 5mm. **Al Treated</i>			
		DTP*(TMCP)	AH,DH, EH32/36	50mm	IC & CC
		<i>*Differential thickness plate, two thicknesses where the maximum thickness differential is 5mm.</i>			
	Plate from Coil(AR)	A	12.5mm	IC	
		A,B,D	12mm	CC	
	Plates(AR)	A Z35	90mm	CC	
		A,B Z35	150mm	IC	
		A,B Z35	51mm	CC	
		A,B,D Z35	35mm	IC / CC	

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<u>JAPAN</u>					
		Plates(AR) <i>*V Treated</i>	AH,DH32 Z35*	35mm	CC
		Plates(CR) <i>*V Treated</i>	AH,DH32 Z35*	40mm	CC
			AH,DH32/36 Z35*	25mm	CC
		<i>*V Treated</i>			
			AH32 Z35*	51mm	CC
		<i>*Al / V Treated</i>			
			AH32/36 Z35*	25mm	IC
		<i>*V Treated</i>			
		Plates(N) <i>*Al Treated</i>	A,B,D,E Z35*	90mm	CC
			A,B,D,E Z35*	150mm	IC
		<i>*Nb Treated</i>			
			AH,DH, EH32/36 Z35*	40mm	IC
		<i>*Nb Treated</i>			
			AH,DH, EH32/36 Z35*	51mm	CC
		<i>*Al / Nb Treated</i>			
			AH,DH, EH32/36 Z35*	90mm	CC
		<i>*(AL+Nb+V) Treated</i>			

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<u>JAPAN</u>					
		Plates(N)	AH,DH,EH32 Z35*	40mm	CC
		<i>*V Treated</i>			
		Plates(Q&T)	AH,DH, EH32/36 Z35	40mm	IC
			AQ,DQ,EQ, FQ70*	50mm	IC
		<i>*Al / (Cu+Ni+Cr+Mo) Treated</i>			
			DQ47*	50mm	IC
		<i>*(Al+V) / (Cu+Ni+Cr) Treated</i>			
			DQ70-030*	140mm	IC
		<i>*(Al+V) / (Cu+Ni+Cr) Treated</i>			
			EQ70*	125mm	IC
		<i>*(Cu+Ni+Cr+Mo) Treated</i>			
		Plates(TMCP)	A,B,D,E Z35*	51mm	IC & CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36 Z35*	51mm	IC & CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36 Z35*	40mm	IC & CC
		<i>*Nb Treated</i>			
			AH,DH,EH 32/36/40 Z35*	73mm	IC
		<i>*Al / (Al+Ti) Treated</i>			

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<u>JAPAN</u>					
		Plates(TMCP)	AH,DH,EH 32/36/40 Z35*	70mm	IC & CC
		<i>*(Al+Nb+Ti) / (Nb+Ti) Treated</i>			
			EH36*	76mm**	CC
		<i>*(Al+Nb) Treated. **Special Approval</i>			
			V039, V051, V060*	40mm	IC & CC
		<i>*Al Treated</i>			
			VH039, VH051, VH060*	35mm	CC
		<i>*(Al+Nb) Treated</i>			
Kyoei Steel Ltd, Yamaguchi Division		Sections(AR)	A	16mm	CC
Nihon Steel Co., Ltd., Kishiwada Works		Flat Bars(AR)	A	38mm	CC
			AH32/36*	25mm	CC
		<i>*V Treated</i>			
*** Nippon Steel & Sumitomo Metal Corp. Kashima Works		DTP*(AR)	A,B,D**	35mm	CC
		<i>*Differential thickness plate in longitudinal direction 5mm max. thickness difference. **(Al) Treated</i>			
		DTP*(CR)	AH,DH32/36**	35mm	CC
		<i>*Differential thickness plate in longitudinal direction 5mm max. thickness difference. **Al Treated</i>			
		DTP*(TMCP-DAC	AH,DH32/36**	35mm	CC
		<i>*Differential thickness plate in longitudinal direction 5mm max. thickness difference. **Al Treated</i>			

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<u>JAPAN</u>					
		DTP*(TMCP-SSC AH,DH32/36**		35mm	CC
		<i>*Differential thickness plate in longitudinal direction 5mm max. thickness difference. **(Al+Nb) Treated</i>			
		LTP*(AR)	A**	35mm	IC & CC
		<i>*Longitudinal tapered plate 0.6mm/meter. **Al Treated</i>			
			AH32/36*	25mm	IC & CC
		<i>*Longitudinal tapered plate 0.6mm/meter. **(Al+Nb) Treated</i>			
		Plate from Coil (AR)	A	12.7mm	IC & CC
			AH32*	4.5mm	IC & CC
		<i>*(Al+Nb) Treated</i>			
		Plates (TMCP-DAC)	AH,DH, EH32/36 Z35	75mm	IC & CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH, EH32/36 Z35*	101.6mm	CC
		<i>*(Nb+Ti) Treated</i>			
			AH,DH, EH32/36 Z35*	40mm	IC & CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36/40 Z35*	50mm	IC & CC
		<i>*(Al+Nb) Treated</i>			

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<u>JAPAN</u>					
		Plates (TMCP-DAC)	AH,DH, EH32/36/40 Z35*	30mm	IC & CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36/40 Z35*	101.6mm	IC & CC
		<i>*(Al+Nb+Ti) Treated</i>			
			AH,DH, EH32/36/40S Z35*	80mm	CC
		<i>*(Al+Nb+Ti) Treated, Special approval - FCA Steel, Boron added</i>			
			AH,DH, EH32/36/40S Z35*	100mm	CC
		<i>*(Al+Nb+Ti) Treated, Special approval - Boron added</i>			
			AH,DH, EH32/36/40S Z35*	50mm	CC
		<i>*(Al+Nb+Ti) Treated, Special approval - FCA Steel</i>			
			AH,DH, EH32/36S*	30mm	CC
		<i>*(Al+Ti) Treated, Special approval - < or = to 0.8% Copper</i>			
			AQ,DQ,EQ43 Z35*	76.2mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			

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<u>JAPAN</u>					
		Plates (TMCP-DAC) <i>*(Al+Nb+V+Ti) Treated</i>	AQ,DQ,EQ51 Z35*	100mm	CC
			VH-055*	25mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
			VH-068*	40mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Plates (TMCP-SSC) <i>*Al Treated</i>	A,B Z35*	100mm	CC
			A,B,D,E Z35*	100mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH, EH32/36 Z35*	50mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH, EH32/36/40 Z35*	35mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH, EH32/36S*	20mm	CC
		<i>*(Al+Ti) Treated, Special approval - < or = to 0.8% Copper</i>			

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<u>JAPAN</u>					
		Plates (TMCP-SSC) <i>*Al Treated</i>	AH32 Z35*	60mm	CC
			AH32S Z35*	25mm	CC
		<i>*Al Treated</i>			
			AQ,DQ,EQ51 Z35*	32mm	CC
		<i>*(Al+Nb+V+Ti) Treated</i>			
			V039,V051, V060*	50mm	IC & CC
		<i>*(Al+Nb) Treated</i>			
			VH039,VH051, VH060*	40mm	IC & CC
		<i>*(Al+Nb) Treated</i>			
			VH32-055*	40mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Plates (TMCP-SSC/DAC) <i>*(Al+Nb+Ti) Treated</i>	V-O55*	30mm	CC
		Plates(AR) <i>*Al Treated</i>	A,B Z35*	100mm	CC
			A,B,D Z35*	35mm	CC
		<i>*Al Treated</i>			

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<u>JAPAN</u>					
		Plates(AR)	AH,DH32/36 Z35*	12.5mm	IC & CC
		<i>*Al Treated</i>			
			AH32 Z35*	50mm	CC
		<i>*Al Treated</i>			
		Plates(CR)	A,B,D Z35	35mm	IC & CC
			AH,DH32/36 Z35*	35mm	IC & CC
		<i>*Al / (Al+Nb) / (Al+V) Treated</i>			
			AH32/36 Z35	35mm	IC & CC
		Plates(N)	A,B*	166mm	IC
		<i>*Al Treated</i>			
			A,B,D*	100mm	CC
		<i>*Al Treated</i>			
			A,B,D,E*	100mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH, EH32/36*	75mm	IC & CC
		<i>*Al / (Al+Nb) / (Al+V) Treated</i>			
			AH,DH32*	100mm	CC
		<i>*(Al+Nb+V) Treated</i>			
		Plates(Q&T)	AQ,DQ,EQ, FQ70 Z35*	120mm	CC
		<i>*(Al+V+Nb+Ti) Treated</i>			

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25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		Plates(Q&T) <i>*(Al+Nb+V+Ti) Treated</i>	AQ,DQ,EQ56*	100mm	CC
			AQ,DQ,EQ63 Z35*	100mm**	CC
				<i>*(Al+Nb+V+Ti) Treated, **102mm for EQ63</i>	
			AQ,DQ,EQ70 Z35*	165.1mm	CC
				<i>*(Al+V+Ti) Treated</i>	
			AQ,DQ,EQ70 Z35*	102mm	CC
				<i>*(Al+Nb+V+Ti) Treated with B addition</i>	
			AQ,DQ51 Z35*	80mm	CC
				<i>*(Al+V+Ti) Treated</i>	
			VH039,VH051, VH060*	40mm	IC & CC
				<i>*Al Treated</i>	
		Sections(AR)	A,B Z35	35mm	CC
			A,B,D Z35*	35mm	CC
				<i>*Al Treated</i>	
			AH,DH32/36 Z35*	20mm	CC
				<i>*Al Treated</i>	
			AH,DH32/36 Z35*	12.5mm	CC
				<i>*Al / (Al+V) Treated</i>	

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

Shapes also include Bars; (AR)-As Rolled; (N)-Normalized; (Q&T)-Quenched & Tempered
(CR)-Control Rolled; (TMCP)-Thermomechanical Control Processed; (AC) Accelerated Cooling
(XXX)-Mill Designation for Special Rolling Process
All-Ordinary and Higher Strength, excluding H40 and FH
AH,DH,EH - H32 and H36, unless indicated otherwise
IC-Ingot Cast; CC-Continuous Cast

**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
*** Nippon Steel & Sumitomo Metal Corp. Kimitsu Works		Sections(AR)	AH32/36 Z35*	35mm	CC
		<i>*Al / (Al+V) Treated</i>			
		Sections(AR)*	A	12mm	CC
		<i>*H-beams</i>			
		DPT*(AR)	A,B**	51mm	CC
		<i>*Differential thickness plate. **Al / (Al+Nb) Treated</i>			
			AH,DH32/36**	25mm	CC
		<i>*Differential thickness plate. **Al / (Al+Nb) Treated</i>			
			AH32/36**	35mm	CC
		<i>*Differential thickness plate. **Al / (Al+Nb) Treated</i>			
		DPT*(N)	A,B,D,E**	51mm	CC
		<i>*Differential thickness plate. **Al / (Al+Nb) Treated</i>			
		AH,DH32/36**	50mm	CC	
	<i>*Differential thickness plate. **Al / (Al+Nb) Treated</i>				
	DPT*(TMCP)	A,B,D,E**	51mm	CC	
	<i>*Differential thickness plate. **Al / (Al+Nb) Treated</i>				
		AH,DH, EH32/36**	51mm	CC	
	<i>*Differential thickness plate. **Al / (Al+Nb) Treated</i>				
	LTP*(AR)	A,B,D**	51mm	CC	
	<i>*Longitudinally tapered plate. **Al / (Al+Nb) Treated</i>				
		AH,DH32/36**	35mm	cc	
	<i>*Longitudinally tapered plate. **Al / (Al+Nb) Treated</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

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**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		LTP*(N)	A,B,D,E**	51mm	CC
		<i>*Longitudinally tapered plate. **Al / (Al+Nb) Treated</i>			
		AH,DH, EH32/36**		50mm	CC
		<i>*Longitudinally tapered plate. **Al / (Al+Nb) Treated</i>			
		LTP*(TMCP)	A,B,D,E**	51mm	CC
		<i>*Longitudinally tapered plate. **Al / (Al+Nb) Treated</i>			
		AH,DH, EH32/36**		51mm	CC
		<i>*Longitudinally tapered plate. **Al / (Al+Nb) Treated</i>			
		Plate from Coil(AR)	A	12.7mm	CC
		Plates(AR)	A,B Z35*	100mm	CC
		<i>*Al / (Al+Nb) Treated</i>			
		AH,DH32/36 Z35*		25mm	CC
		<i>*Al / Ti / (Al+Nb) / (Al+V) / (Al+Nb+V) / (Al+Ti+B) Treated</i>			
		AH32/36 Z35*		35mm	CC
		<i>*Al / Ti / (Al+Nb) / (Al+V) / (Al+Nb+V) / (Al+Ti+B) Treated</i>			
		D Z35*		35mm	CC
		<i>*Al / (Al+Nb) Treated</i>			
		Plates(CR)	A,B,D Z35*	51mm	CC
		<i>*Al / (Al+Nb) Treated</i>			
		Plates(N)	A,B,D,E Z35*	100mm	CC
		<i>*Al / (Al+Nb) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		Plates(N)	AH,DH, EH32/36 Z35*	100mm	CC
		<i>*Al / Ti / (Al+Nb) / (Al+V) / (Al+Nb+V) / (Al+Ti+B) Treated</i>			
			AH,DH32/36 Z35*	100mm	CC
		<i>*Al / Ti / (Al+Nb) / (Al+V) / (Al+Nb+V) / (Al+Ti+B) Treated</i>			
		Plates(Q&T)*	AQ,DQ,EQ63/70	51mm	CC
		<i>*(Al+V) Treated</i>			
		Plates(TMCP & CLC+Temper)	AQ,DQ, EQ63/70 Z35*	51mm	CC
		<i>*(Al+V) Treated</i>			
			AQ,DQ,EQ51 Z35*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Plates(TMCP)	A,B,D,E Z35*	100mm	CC
		<i>*Al / (Al+Nb) Treated</i>			
			AH,DH,EH 32/36/40 Z35*	100mm	CC
		<i>*Al / Ti / (Al+Nb) / (Al+V) / (Al+Nb+V) / (Al+Ti+B) Treated</i>			
			AQ,DQ,EQ, FQ43 Z35*	50mm	CC
		<i>*Al / (Al+Nb) / (Al+V) / (Al+Nb+Ti) / (Ti+Nb) Treated</i>			
			AQ,DQ,EQ, FQ47 Z35*	50mm	CC
		<i>*Al / (Al+Nb) / (Al+V) / (Al+Nb+Ti) / (Ti+Nb) Treated</i>			

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NOTES

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**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		Plates(TMCP)	AQ,DQ,EQ, FQ51 Z35*	70mm	CC
		<i>*Al / (Al+Nb) / (Al+V) / (Al+Nb+Ti) / (Ti+Nb) Treated</i>			
			VH-039, VH-051, VH-060	50mm	CC
		<i>*Al / (Al+Nb) Treated</i>			
		Plates(TMCP)*	AQ,DQ,EQ51 Z35*	65mm	CC
		<i>*Al / (Al+Nb) / (Al+V) / (Al+Nb+Ti) / (Ti+Nb) Treated</i>			
		Sections(AR)	A,B,D	24mm	CC
		Sections(CR)	AH,DH32/36*	19mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		TTP*(AR)	A,B,D**	50mm	CC
		<i>*Transversally tapered plate. **Al / (Al+Nb) Treated</i>			
			AH,DH32/36**	25mm	CC
		<i>*Transversally tapered plate. **Al / (Al+Nb) Treated</i>			
			AH32/36**	35mm	CC
		<i>*Transversally tapered plate. **Al / (Al+Nb) Treated</i>			
		TTP*(N)	A,B,D,E**	50mm	CC
		<i>*Transversally tapered plate. **Al / (Al+Nb) Treated</i>			
			AH,DH, EH32/36**	50mm	CC
		<i>*Transversally tapered plate. **Al / (Al+Nb) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		TTP*(TMCP)	A,B,D,E**	50mm	CC
		<i>*Transversally tapered plate. **Al / (Al+Nb) Treated</i>			
			AH,DH, EH32/36**	100mm	CC
		<i>*Transversally tapered plate. **Al / (Al+Nb) Treated</i>			
Nippon Steel & Sumitomo Metal Corp. Muroran Works		Round Bars (AR)	R3, R3S, R4	132mm	CC
		<i>Al Treated Rolled Bar for Mooring Chain</i>			
			U2, U3	132mm	CC
		<i>Al Treated Rolled Bar for Anchor Chain</i>			
*** Nippon Steel & Sumitomo Metal Corp. Nagoya Works		Plates(N)	AH,DH, EH32/36 Z35	100mm	CC
		<i>(Al+Nb+V) Treated</i>			
		Plates (AR)	A,B (Z35)	100mm	CC
		<i>Al Treated</i>			
			D (Z35)	35mm	CC
		<i>Al Treated</i>			
		Plates (CR)	D	50mm	CC
		<i>Al Treated</i>			
		Plates (N)	A,B,D,E (Z35)*	130mm**	CC
		<i>*Al Treated; **Special Approval</i>			
		Plates (TMCP/CLC or TMCP/CLC+Tem	AH/DH/EH 32/36/40 (Z35)	100mm	CC
		<i>(Al+Nb+V) or (Al+Nb+Ti) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		Plates (TMCP/CLC+Ten <i>(Al+Nb+V) or (Al+Nb) Treated</i>)	AQ/DQ/EQ 43/47/56/63/ 70 (Z35)	50mm	CC
		Plates(CR) <i>(Al+Nb) or (Al+V) Treated</i>	AH,DH32/36 Z35	50mm	CC
		Plates(N) <i>Al Treated</i>	A,B,D,E (Z35)	100mm	CC
			AH,DH,EH40 Z35 <i>(Al+V) Treated</i>	32mm	IC & CC
		Plates(Q&T) <i>(Al+Nb+V) or (Al+Nb) Treated</i>	AQ/DQ/EQ 43/47/56/63/ 70 Z35	50mm	CC
			EH36S* <i>*Al Treated</i>	166mm	CC
*** Nippon Steel & Sumitomo Metal Corp. Oita Works		DTP*(AR) <i>*Differential Thickness Plate</i>	A,B	51mm	CC
			A,B,D <i>*Differential Thickness Plate</i>	25.5mm	CC
			AH,DH32 <i>*Differential Thickness Plate</i>	25.5mm	CC

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(CR)-Control Rolled; (TMCP)-Thermomechanical Control Processed; (AC) Accelerated Cooling
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AH,DH,EH - H32 and H36, unless indicated otherwise
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**AMERICAN BUREAU OF SHIPPING
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		DTP*(AR)	AH,DH32/36**	12.5mm	CC
		<i>*Differential Thickness Plate, **Nb / (Nb+V) Treated</i>			
			AH,DH32/36**	20mm	CC
		<i>*Differential Thickness Plate, **V Treated</i>			
		DTP*(CR)	A,B,D	35mm	CC
		<i>*Differential Thickness Plate</i>			
			AH,DH32	35mm	CC
		<i>*Differential Thickness Plate</i>			
			AH,DH32/36**	35mm	CC
		<i>*Differential Thickness Plate, **V / Nb / (Nb+V) Treated</i>			
			AH32	51mm	CC
		<i>*Differential Thickness Plate</i>			
		DTP*(N)	A,B,D,E	51mm	CC
		<i>*Differential Thickness Plate</i>			
			AH,DH, EH32/36**	51mm	CC
		<i>*Differential Thickness Plate, **V / Nb / (Nb+V) Treated</i>			
			AH,DH,EH32	51mm	CC
		<i>*Differential Thickness Plate</i>			
		DTP*(TMCP-NIC)	AH,DH, EH32/36**	50mm	CC
		<i>*Differential Thickness Plate, **Al / V / Nb Treated</i>			
		LTP*(AR)	A,B	50mm	CC
		<i>*Longitudinally tapered plate.</i>			

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25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		LTP*(AR)	A,B,D	35mm	CC
		<i>*Longitudinally tapered plate.</i>			
		AH,DH32/36**		12.5mm	CC
		<i>*Longitudinally tapered plate. **V / Nb / (Nb+V) Treated</i>			
		AH32		35mm	CC
		<i>*Longitudinally tapered plate.</i>			
		AH32/36**		35mm	CC
		<i>*Longitudinally tapered plate. **Al / V Treated</i>			
		LTP*(CR)	A,B,D	35mm	CC
		<i>*Longitudinally tapered plate.</i>			
		AH,DH32/36		25mm	CC
		<i>* Longitudinally tapered plate.</i>			
		AH,DH32/36**		40mm	CC
		<i>* Longitudinally tapered plate. **V / Nb / (Nb+V) Treated</i>			
		AH32		50mm	CC
		<i>*Longitudinally tapered plate.</i>			
		LTP*(N)	A,B,D,E	50mm	CC
		<i>*Longitudinally tapered plate.</i>			
		AH,DH, EH32/36**		50mm	CC
		<i>*Longitudinally tapered plate. **V / Nb / (NB+V) Treated</i>			
		AH,DH,EH32**		50mm	CC
		<i>*Longitudinally tapered plate. **Al / V / Nb / (Nb+V) Treated</i>			

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**AMERICAN BUREAU OF SHIPPING
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COUNTRY

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<u>JAPAN</u>					
		LTP*(TMCP-CLC	A,B,D,E**	50mm	CC
		<i>*Longitudinally tapered plate. **Al Treated</i>			
			AH,DH, EH32/36	50mm	CC
		<i>*Longitudinally tapered plate. **Al / V / Nb Treated</i>			
		LTP*(TMCP-NIC)	AH,DH, EH32/36**	50mm	CC
		<i>*Longitudinally tapered plate. **Al / (Al+V) / (Al+Nb) Treated</i>			
		Plate from Coil(AR)	AH32/36*	12.5mm	CC
		<i>*Nb / (Nb+V) Treated</i>			
		Plates(AR)	A Z35	35mm	CC
			A,B	51mm	CC
			A,B*	90mm	CC
		<i>*Al Treated</i>			
			A,B,D	25.5mm	CC
			AH,DH/32	25.5mm	CC
			AH,DH32/36*	12.5mm	CC
		<i>*V / Nb / (Nb+V) Treated</i>			
		Plates(CR)	A,B,D	35mm	CC
			AH,DH/32	35mm	CC
			AH,DH32/36 Z35*	25mm	CC
		<i>*Al Treated</i>			

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		Plates(CR) <i>*V / Nb / (Nb+V) Treated</i>	AH,DH32/36*	40mm	CC
			AH32/36* <i>*Nb / (Nb+V) Treated</i>	40mm	CC
		Plates(N)	A,B,D,E A,B,D,E*	51mm 90mm	CC CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36*	90mm	CC
		<i>*(Al+Nb) / (Al+Nb+V) Treated</i>			
			AH,DH, EH32/36*	51mm	CC
		<i>*Al / V / Nb / (Nb+V) Treated</i>			
			AH,DH/32	51mm	CC
			AH,DH32/36*	51mm	CC
		<i>*V / Nb / (Nb+V) Treated</i>			
			AH32/36*	51mm	CC
		<i>*Nb / (Nb+V) Treated</i>			
		Plates(TMCP-CL + Temper)	AH,DH,EH, FH32/36*	25mm	CC
		<i>*(Al+Ti) Treated</i>			
		Plates(TMCP-CL	A,B,D,E*	85mm	CC
		<i>*Al Treated</i>			

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**AMERICAN BUREAU OF SHIPPING
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>JAPAN</u>					
		Plates(TMCP-CL <i>*(Al+Ti) Treated</i>	A,B,D,E*	40mm	CC
			AH,DH, EH32/36*	56mm	CC
		<i>*(Al+V) Treated</i>			
			AH,DH, EH32/36/40*	60mm	CC
		<i>*Al / (Al+Nb) Treated</i>			
			AH,DH,EH, FH32/36/40*	80mm	CC
		<i>*(Al+Ti) / (Al+Nb+Ti) Treated</i>			
			AH,DH,EH32*	92mm	CC
		<i>*Al Treated</i>			
			AH,DH,EH40*	100mm	CC
		<i>*Al Treated</i>			
			AH,DH,EH47*	70mm	CC
		<i>*(Al+Ti) / (Al+Nb+Ti) Treated</i>			
			AQ,DQ,EQ, FQ43*	50mm	CC
		<i>*Al / (Al+Nb) Treated</i>			
			V039, V051, V060*	40mm	CC
		<i>*(Al+Ti) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

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**AMERICAN BUREAU OF SHIPPING
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
		<u>JAPAN</u>			
		Plates(TMCP-CL <i>*(Al+Ti) Treated</i>	VH039, VH051, VH060*	40mm	CC
		Plates(TMCP-NIC <i>*Al Treated</i>	A,B,D,E*	85mm	CC
		 <i>*(Al+Ti) Treated</i>	A,B,D,E*	40mm	CC
		 <i>*Al / (Al+V) / (Al+Nb) Treated</i>	AH,DH, EH32/36*	51mm	CC
		 <i>*(Al+Ti) Treated</i>	AH,DH,EH, FH32*	16mm	CC
		 <i>*(Al+Ti) Treated</i>	V039, V051, V060*	16mm	CC
		 <i>*(Al+Ti) Treated</i>	VH039, VH051, VH060*	16mm	CC
		Plates(TMCP-SF + CLC) <i>*Al Treated</i>	AH,DH, EH32/36-SHA*	34mm	CC
Nippon Steel & Sumitomo Metal Corp. Sakai Works		Sections(AR) <i>**Al Treated</i>	A,B,D**	23mm	CC

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<u>JAPAN</u>					
		Sections(AR) <i>** (Al+V) Treated</i>	AH32**	25mm	CC
		Sections(CR) <i>** (Al+Nb) Treated</i>	AH,DH32/36**	32mm	CC
		Sections(TMCP) <i>** Al Treated</i>	A,B,D**	30mm	CC
			AH,DH32**	25mm	CC
			AH,DH32/36**	51mm	CC
Nippon Steel & Sumitomo Metal Corp. Wakayama Works		Slab <i>*Al Treated</i>	A,B,D*	250mm	CC
			AH,DH32/36*	250mm	CC
Oji Steel Co., Ltd., Gunma Plant		Flat Bars(AR)	A	13mm	CC
		Flat Bars(CR) <i>*Nb Treated</i>	AH32/36*	25mm	CC
Osaka Steel Co. Okajima Works		Shapes(AR) <i>Slabs from Kansai</i>	A	15mm	CC
			AH32/36*	12mm	CC
Osaka Steel Co. Sakai Works		Sections(AR) <i>Slabs from Kansai</i>	A	15mm	CC

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<u>JAPAN</u>					
Shinkansai Steel Corp, Sakai Works		Flat Bar(AR) <i>*Al Treated</i>	AH,DH32*	38mm	CC
			AH,DH32/36*	38mm	CC
		<i>*(Al+V) Treated</i>			
		Shapes(AR)	A,B A,B,D*	38mm 38mm	CC CC
		<i>*Al Treated</i>			
Shinkansai Steel Corp., Hoshida Works		Flat Bars(AR)	A,B	32mm	CC
			AH 32/36	32mm	CC
		<i>(Al+V) Treated</i>			
			D	32mm	CC
		<i>Al Treated</i>			
Tokyo Kohtetsu Co. Oyama Works Tokyo Steel Kyushu Works		Round Bars(AR)	A,B	80mm	CC
		Shapes(AR)	A	13mm	CC
		Plate(AR) <i>*Al Treated</i>	A	32mm	CC
			B,D*	32mm	CC
		<i>*Al Treated</i>			

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<u>JAPAN</u>					
*** Topy Industries Ltd., Toyohashi Works		Plate(CR) <i>*(Al +Ti) Treated</i>	AH,DH32/36*	32mm	CC
		Shapes (AR)	A	24mm	CC
		Flat Bar(AR)	A,B,D	28mm	CC
		Flat Bar(CR) <i>*(Al+V) Treated</i>	A,B,D,E*	32mm	CC
			AH,DH, EH32/36*	36mm	CC
		<i>*(Al+V) Treated</i>			
			AH,DH32/36*	51mm	CC
		<i>*(Al+V) Treated</i>			
		Shapes(AR)	A,B,D	20mm	CC
		Shapes(CR) <i>*(Al+V+Ti) Treated</i>	A,B,D,E*	20mm	CC
			AH,DH, EH32/36*	12mm	CC
		<i>*(Al+V+Ti) Treated</i>			
			AH,DH32/36*	20mm	CC
	<i>-(Al+V) Treated</i>				
		V-055*	25mm	CC	
	<i>*Al Treated</i>				
		VH-055*	25mm	CC	
	<i>*(Al+V) Treated</i>				

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<u>JAPAN</u>					
Yamato Steel Co., Ltd., Himeji Works		Sections (CR) <i>*Al, V, (Al + Nb), (Al + V) Treated</i>	A,B,D,E*	25mm	CC
			AH,DH, EH32/36*	25mm	CC
			<i>*Al, V, (Al + Nb), (Al + V) Treated</i>		
		Shapes (AR)	A,B,D	25mm	CC
			AH,DH32/36* <i>*Al, V, Nb, (Al+V) Treated</i>	25mm	CC
<u>LUXEMBOURG</u>					
ArcelorMittal Belval & Differdange, Belval Steel Mill		Shapes (AR)	A	26mm	CC
ArcelorMittal Belval & Differdange, Differdange Steel Mill		Sections (AR)	A	40mm	CC
		Shapes (AR)	A,B	16.5mm	CC
		Shapes (TMCP-QST)	AH,DH, EH32/36	43 mm	CC
<u>MACEDONIA</u>					
*** Makstil A.D.Skopje		Plates(AR) <i>*Al Treated</i>	A,B*	51mm	CC
			AH32/36*	35mm	CC
		<i>*Al Treated</i>			

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<u>MACEDONIA</u>					
		Plates(AR) <i>*Al Treated</i>	D*	35mm	CC
			DH32/36*	25mm	CC
		<i>*Al Treated</i>			
		Plates(CR) <i>*Al Treated</i>	A,B*	100mm	CC
			AH,DH 32/36/40*	51mm	CC
		<i>*(Al+V) Treated</i>			
			AH,DH32/36 Z35*	50mm	CC
		<i>*(Al+V+Nb) Treated</i>			
			D*	51mm	CC
		<i>*Al Treated</i>			
<u>MALAYSIA</u>					
Ji Kang Dimensi SDN BHD, Pahang		Plates(AR)* <i>* Slab source : Jinan Iron & Steel Group, China.(ABS approved Source)</i>	A	16mm	CC
Megasteel Sdn. Bhd., Selangor Darul Ehsan		Plates from Coil(TMCP)	A, B, D, E	14mm	CC
			AH,DH, EH32/36	10mm	CC

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<u>MEXICO</u>					
Arcelormittal Lazaro Cardenas S.A. de C.V., Michoacan		Slab	A, B, D	250mm	CC
			AH, DH 32/36	250mm	CC
<u>NETHERLANDS</u>					
Nedstaal B.V.		Billets	-	125mm	IC
		Ingots, Blooms	-	450mm	IC
		Slabs	-	150mm	IC
<u>PEOPLES REPUBLIC OF CHINA</u>					
2150 Hot Strip Mill of Angang Steel Co Ltd		Coiled Plates(AR)*	A,B**	20mm	CC
		<i>*Slab Source: Angang No. 3 Mill (ABS Approved Source), Uncoiling Facility: Anshan Heavy Steel Structure Co., Ltd. **Al Treated</i>			
Angang Steel Co Ltd - Heavy Plate Plant		Coiled Plates(CR)*	AH,DH32/36**	18mm	CC
		<i>*Slab Source: Angang No. 3 Mill (ABS Approved Source), Uncoiling Facility: Anshan Heavy Steel Structure Co., Ltd. **(Al+Nb) Treated</i>			
Angang Steel Co Ltd - Heavy Plate Plant		Plates(AR)	A,B	40mm	CC
		Plates(AR)*	A,B	30mm	CC
		<i>*Slab Source - Angang No. 3 Mill (ABS Approved Source)</i>			
		Plates(CR)	AH,DH32/36	40mm	CC
		AH32/36	40mm	CC	
		D	40mm	CC	

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(CR)*	AH,DH32/36	30mm	CC
		<i>*Slab Source - Angang No. 3 Mill (ABS Approved Source)</i>			
		Plates(N)	AH,DH, EH32/36	40mm	CC
			E	40mm	CC
		Plates(TMCP)	A, B, D, E	100mm	CC
			A,B,D,E-W100	100mm	CC
			AH,DH,EH 32/36/40 W100	100mm	CC
			AH,DH,EH, FH32/36/40	100mm	CC
			AQ,DQ,EQ, FQ47*	100mm	CC
			AQ,DQ,EQ, FQ56*	80mm	CC
Angang Steel Co Ltd - Medium Plate Plant		Plates(AR)*	A,B	40mm	CC
		<i>*Slab Source - Angang No. 1, No.2 and No.3 Mill (Al Treated)</i>			
		Plates(CR)*	AH,DH32/36	30mm	CC
		<i>*Slab Source - Angang No. 1, No.2 and No.3 Mill (Al+Nb Treated)</i>			
			AH,DH32/36	40mm	CC
		<i>*Slab Source - Angang No. 1, No.2 and No.3 Mill (Al+Nb+V Treated)</i>			
			D	40mm	CC
		<i>*Slab Source - Angang No. 1, No.2 and No.3 Mill (Al Treated)</i>			

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<u>PEOPLES REPUBLIC OF CHINA</u>					
Anshan Heavy Steel Structure Co., Ltd.		Plates from Coil (AR)*	A,B**	20mm	CC
		<i>*Coil Supplier: Angang Steel Co Ltd, Hot Rolled Strip Mill, **Al Treated</i>			
		Plates from Coil (CR)*	AH,DH32/36**	18mm	CC
		<i>*Coil Supplier: Angang Steel Co Ltd, Hot Rolled Strip Mill, ** (Al+Nb) Treated</i>			
Anyang Iron & Steel Co., Ltd., (2,800mm Rolling Mill), Henan		Plates(AR)	A,B	25mm	CC
			A,B*	36mm	CC
		<i>*Al Treated</i>			
		Plates(CR)	A,B,D*	36mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	36mm	CC
		<i>*Al Treated</i>			
		Plates(N)	A,B,D,E*	40mm	CC
	<i>*Al Treated</i>				
			AH,DH, EH32/36*	40mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH,EH32*	40mm	CC
		<i>*Al Treated</i>			
Anyang Iron & Steel Co., Ltd., (3,500mm Rolling Mill), Henan		Plates(AR)	A,B*	36mm	CC
	<i>*Al Treated</i>				

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<u>PEOPLES REPUBLIC OF CHINA</u>					
Anyang Iron & Steel Co., Ltd., Henan		Plates(CR) <i>*Al Treated</i>	A,B,D*	36mm	CC
			AH,DH32/36*	36mm	CC
		<i>*Al Treated</i>			
		Plates(N) <i>*Al Treated</i>	A,B,D,E*	40mm	CC
			AH,DH, EH32/36*	40mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH,EH/32*	40mm	CC
		<i>*Al Treated</i>			
		Bulb Flats(AR)	A,B	12mm	CC
		<i>*Al Treated</i>	A,B,D*	12mm	CC
*** Baoshan Iron and Steel Co., Ltd. (Core Base Plate Line No.1)			AH,DH32/36*	12mm	CC
		<i>*Al Treated</i>			
		Coil Plates(AR) <i>*Al Treated</i>	A,B,D*	16mm	CC
			AH32/36*	16mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
	Plates(AR) <i>*(Al+Ti) Treated</i>	A,B*	50mm	CC	

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(AR) <i>*(Al+Ti) Treated</i>	A,B,D Z35*	35mm	CC
			A,B,D*	35mm	CC
			AH,DH32/36 Z35*	20mm	CC
			AH,DH32/36*	20mm	CC
		Plates(CR)	AH,DH32/36 Z35*	40mm	CC
			AH,DH32/36*	40mm	CC
			AH32/36 Z35*	30mm	CC
		Plates(N)	A,B*	80mm	CC
			A,B,D,E Z35*	35mm	CC
			A,B,D,E Z35*	80mm	CC
			A,B,D,E*	80mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(N) <i>*(Al+Ti) Treated</i>	A,B,D,E*	35mm	CC
			AH,DH, EH32/36 Z35*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
			AH,DH, EH32/36*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
			AH,DH32 Z35*	30mm	CC
		<i>*(Al+Ti) Treated</i>			
			AH,DH32*	30mm	CC
		<i>*(Al+Ti) Treated</i>			
		Plates(Q&T)*	AQ,DQ,EQ43 Z35	88mm	CC
		<i>*(Al+V+Ti) Treated</i>			
			AQ,DQ,EQ47 Z35	88mm	CC
		<i>*(Al+V+Ti) Treated</i>			
			AQ,DQ,EQ51 Z35	88mm	CC
		<i>*(Al+V+Ti) Treated</i>			
			AQ,DQ,EQ56 Z35	88mm	CC
		<i>*(Al+V+Ti) Treated</i>			

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(Q&T)* <i>*(Al+V+Ti) Treated</i>	AQ,DQ,EQ63 Z35	88mm	CC
			AQ,DQ,EQ70	50mm	CC
		<i>*(Al+V+Nb+Ti) Treated</i>			
			AQ,DQ,EQ70	178mm	IC
		<i>*(Al+V+Nb+Ti) Treated</i>			
			AQ,DQ,EQ70 Z35	88mm	CC
		<i>*(Al+V+Ti) Treated</i>			
		Plates(TMCP with AC)* <i>*(Al+Nb+Ti) Treated</i>	AH,DH,EH 36/40Z35	68mm	CC
		Plates(TMCP without AC)* <i>*(Al+Nb+Ti) Treated</i>	AH,DH,EH 36/40Z35	20mm	CC
		Plates(TMCP) <i>*(Al+Nb) Treated</i>	AH,DH, EH32/36 Z35*	50mm	CC
		<i>*(Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	80mm	CC
		<i>*(Al+Nb) Treated</i>	AH,DH, EH32/36*	50mm	CC

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25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(TMCP)	AH,DH, EH32/36*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Plates(TMCP-TM)	AH,DH, EH32/36 Z35*	35mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Rolled Bar	R5	142mm	CC
		<i>*Al Treated</i>			
		Slab*	A, B, D, E	-	CC
		<i>*(Al+Nb+Ti) Treated</i>			
			AH,DH,EH32/3	-	CC
		<i>*(Al+Nb+V) Treated</i>			
Baoshan Iron and Steel Co., Ltd. (Core Base Plate Line No.2)		Plates(AR)	A, B	50mm	CC
		<i>*Slab Source: Jiangyin Xincheng Special Steel Works Co., Ltd., P.R. China (ABS Approved Steel Mill). ***(Al+Ti) Treated</i>			
			A, B	50mm	CC
			A,B,D Z35*	35mm	CC
		<i>*(Al+Ti) Treated</i>			
			AH,DH32/36	20mm	CC
			AH,DH32/36	20mm	CC
			AH,DH32/36	20mm	CC
			D	35mm	CC
		Plates(AR)*	A, B, D	35mm	CC
		<i>*(Al+Ti) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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All-Ordinary and Higher Strength, excluding H40 and FH
AH,DH,EH - H32 and H36, unless indicated otherwise
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(AR)* <i>*(Al+Ti) Treated</i>	AH, DH32/36	20mm	CC
		Plates(CR)	AH,DH32/36	35mm	CC
			AH,DH32/36	35mm	CC
			AH32	35mm	CC
		Plates(N)	A,B,D,E	60mm	CC
			A,B,D,EZ35	60mm	CC
			AH,DH,EH 32/36	50mm	CC
			AH,DH,EH 32/36Z35	50mm	CC
		Plates(TMCP)* <i>*(Al+Nb+Ti) Treated</i>	A,B,D,E Z35	50mm	CC
			AH,DH,EH 32/36 Z35	50mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Slabs* <i>*(Al+Ti) Treated</i>	A,B	250mm	CC
Baosteel Iron & Steel Co., Ltd., Stainless Steel Branch		Slab	A, B	200 X 750 mm	CC
Baotou Iron and Steel (Group) Co., Ltd., Baotou		Plates(CR)	A,B,D	40mm	CC
		Plates(TMCP)	AH32/36	40mm	CC
Bayuquan 5500 Heavy Plate Mill of Ansteel		Plates(AR) <i>Al Treated</i>	A, B	40mm	CC

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(CR) <i>*Al Treated</i>	A,B,D Z35 *	40mm	CC
			AH,DH 32/36 Z35 *	40mm	CC
			<i>*(Al+Nb) Treated</i>		
		Plates(TMCP) <i>*Al Treated</i>	A,B,D,E Z35 *	40mm	CC
			AH,DH,EH 32/36/40 Z35 *	40mm	CC
			<i>*(Al+Nb) Treated</i>		
Bengang Steel Plates Co., Ltd., Benxi		Coil(CR) <i>*(Al+Ti) Treated</i>	A,B*	20mm	CC
Changshu Longteng Special Steel Co., Ltd., Changshu		Billet/Bloom	A, B	260 (T) x 340 (W) mm	CC
		Billet/Bloom*	AH32, AH36	260 (T) x 340 (W) mm	CC
			<i>*Nb Treated</i>		
		Bulb Bar(AR)*	A, B	14mm	CC
			<i>* Slab Source: (ABS Approved Source) HongFa Steel Plant, P.R.China (Jiangsu Shagang Group)</i>		
		Flat Bar(AR)	A, B	20mm	CC
		Shape-Angle (AR)	A, B	18mm	CC
		Shape-Angle (AR)*	AH32, AH36	18mm	CC
			<i>*Nb Treated</i>		

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Shape-Bulb Flat (AR)	A, B	19mm	CC
		Shape-Bulb Flat (AR)*	A, B	12mm (W 280mm)	CC
		<i>* Al Treated. Slab Source: Jiangsu Shangang Group - Xinrui Special Type Steel Co.</i>			
			AH32, AH36	12mm (W 280mm)	CC
		<i>*(Al+Ti) Treated. Slab Source: Jiangsu Shangang Group - Xinrui Special Type Steel Co.</i>			
			AH32, AH36	19mm	CC
		<i>*Nb Treated</i>			
		Shape-L Section (AR)*	A, B	17mm (W 300x90mm)	CC
		<i>* Al Treated. Slab Source: Jiangsu Shangang Group - Xinrui Special Type Steel Co.</i>			
			AH32, AH36	17mm (W 300x90mm)	CC
		<i>*(Al+Ti) Treated. Slab Source: Jiangsu Shangang Group - Xinrui Special Type Steel Co.</i>			
Changzhou Longxiang Iron & Steel Co., Ltd.		Billet	A, B	180mm x 180mm	CC
			AH32/36	180mm x 180mm	CC
Chongqing Iron & Steel Co Ltd		Bulb Section (AR)	A, B, D	15mm	CC
			AH 32	16mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
Chongqing Iron & Steel Co Ltd (2700mm Product Line)		Bulb Section (AR)	AH 36	15mm	CC
			DH 32/36	15mm	CC
		Plate(AR)	DH32, DH36	25mm	IC & CC
		Plates(AR)	A, B	32mm	IC & CC
			AH32/36	32mm	IC & CC
		Plates(N)	A, B, D	32mm	IC & CC
			AH,DH32/36	32mm	IC & CC
		Plate(AR)	A Z35	40mm	CC
			A,B Z35*	40mm	CC
		<i>*Al Treated</i>			
			A,B,D Z35*	25mm	CC
		<i>*Al Treated</i>			
		Plate(CR)	AH,DH32 Z35*	32mm	CC
		<i>*(Al+Ti) Treated</i>			
Chongqing Iron & Steel Co Ltd (4100mm Product Line)			AH,DH32/36 Z35*	25mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Plate(N)	A,B,D Z35*	50mm	CC
		<i>*Al Treated</i>			
			A,B,D,E Z35*	50mm	CC
	<i>*(Al+Nb+Ti) Treated</i>				

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plate(N) <i>*(Al+Nb+V+Ti) Treated</i>	AH,DH, EH32/36 Z35*	40mm	CC
Chongqing Iron & Steel Co. Ltd., Changzhou		Plate(AR) <i>*Al Treated</i>	A,B*	40mm	CC
		<i>*Al Treated</i>	A,B,D*	35mm	CC
		<i>*(Al+Ti) Treated</i>	AH,DH32/36*	20mm	CC
		<i>*(Al+Ti) Treated</i>	AH32/36*	35mm	CC
Daye Special Steel Co., Ltd., Hubei		Round Bar(HR or Annealed) <i>*(Al+Ti) Treated</i>	U3*	160mm	CC
Fujian Provincial Sansteel (Group) Co., Ltd.		Plates(CR)	A,B	36mm	CC
		<i>*Al+NB+V Treated</i>	AH,DH32/36*	30mm	CC
		<i>*Al Treated</i>	AH32*	30mm	CC
Guangxi Liuzhou Iron & Steel (Group) Co.,		Plate (AR)	A, B	36mm	CC
		Plate (CR)	AH32,36	36 mm	CC
		Plate from Coil (AR)	A, B	12 mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
Hanbao Iron & Steel Co., Ltd. Hansteel Group		Coil(CR) <i>*Al Treated</i>	A,B,D*	18mm	CC
			AH,DH32/36*	18mm	CC
			<i>*(Al+Nb) Treated</i>		
		Plate from Coil(CR) <i>*Al Treated</i>	A,B,D*	18mm	CC
			AH,DH32/36*	18mm	CC
			<i>*(Al+Nb) Treated</i>		
Handan Iron & Steel, Handan, Hebei Province		Plates(AR)	A,B	25mm	CC
		Plates(CR)	A, B, D	38mm	CC
			AH, DH32/36	38mm	CC
Hebei Iron & Steel Group, Yanshan Iron & Steel Co., Ltd. (#1 Mill)		Billet <i>*Al Treated</i>	A,B*	150mm x 150mm	CC
		Plate Fom coil <i>*(Al+V) Treated</i>	AH,DH32/36*	16mm	CC
		Plate from coil	A,B	16mm	CC
		Slab	A,B	165mm	CC
			AH,DH32/36*	165mm	CC
			<i>*(Al+V) Treated</i>		
Hebei Iron & Steel Group, Yanshan Iron & Steel Co., Ltd. (#2 Mill)		Plate(AR)	A,B	15mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plate(AR) <i>*(Al+V+Ti) Treated</i>	AH,DH32/36*	15mm	CC
		Slab	A,B AH,DH32/36*	250mm 250mm	CC CC
			<i>*(Al+V+Ti) Treated</i>		
Hebei Iron & Steel, Handan, Hebei Province		Plate(AR)	A,B	25mm	CC
		Plate(CR) <i>*Al Treated</i>	A,B,D*	38mm	CC
			AH,DH32/36*	38mm	CC
			<i>*(Al+Nb) Treated</i>		
		Plate(N) <i>*(Al+Nb) Treated</i>	A,B,D,E Z35*	50mm	CC
			AH/DH/EH 32/36 Z35*	50mm	CC
		<i>*(Al+Nb) Treated</i>			
Hebei Jingye Group Co., Ltd., Shijiazhuang City		Plate(CR) <i>*Al Treated</i>	A,B,D*	30mm	CC
			AH,DH32/36*	30mm	CC
		<i>*(Al+V) Treated</i>			
Hebei Jitai Special Steel Group		-	-	-	-
		<i>Approval for Hebei Jitai Special Steel Group lapsed from the date of 01 Feb 09 to 27 Nov 09. Contact ABSShanghai@eagle.org to validate the authenticity of certificates issued during this time frame. Surveyors are to copy Chief Metallurgist - TCD, Houston.</i>			

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Angle(AR)	A,B	18mm	CC
			A,B,D*	20mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	18mm	CC
		<i>*(Al+V) Treated</i>			
		Angle(AR)*	AH32/36*	20mm	CC
		<i>*Billet Source: Anyang Iron & Steel Co., Ltd. (approved on 07 Apr 2010)</i>			
		Angle(AR)**	AH32/36*	20mm	CC
		<i>*Al Treated. **Billet Source: Anyang Iron & Steel Co., Ltd. (approved on 07 Apr 2010)</i>			
		Bulb Flat(AR)	A,B,D*	20mm	CC
		<i>*Al Treated</i>			
		Bulb Flat(AR)*	A,B	16mm	CC
		<i>*Billet Source: Anyang Iron & Steel Co., Ltd. (approved on 07 Apr 2010)</i>			
		Bulb Flat(AR)**	AH32/36*	16mm	CC
		<i>*Al Treated. **Billet Source: Anyang Iron & Steel Co., Ltd. (approved on 07 Apr 2010)</i>			
		Bulb Plate(AR)	A,B	20mm	CC
			A,B,D*	20mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	20mm	CC
		<i>*(Al+V) Treated</i>			

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Bulb Plate(AR) <i>*Al Treated</i>	AH32/36*	20mm	CC
		Flat(AR)* <i>*Billet Source: Anyang Iron & Steel Co., Ltd. (approved on 07 Apr 2010)</i>	A,B	38mm	CC
		Flat(AR)** <i>*Al Treated. **Billet Source: Anyang Iron & Steel Co., Ltd. (approved on 07 Apr 2010)</i>	AH32/36*	38mm	CC
		Plate(AR) <i>*(Al+V) Treated</i>	AH,DH32/36*	20mm	CC
Hebei Wenfeng Iron & Steel Co., Ltd., Wuan City		Plates(CR)	A, B, D	25mm	CC
			AH,DH32/36	25mm	CC
Hunan Valian Xiangtan Iron & Steel (5m Wide Plate Line)		Plates(CR) <i>*Al Treated</i>	A,B*	40mm	CC
		<i>*Al Treated</i>	A,B,D Z35*	40mm	CC
		<i>*Al Treated</i>	AH,DH32/36 Z35*	40mm	CC
		Plates(N) <i>*Al Treated</i>	A,B*	60mm	CC
		<i>*(Al+Nb) Treated</i>	A,B,D,E Z35*	60mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
Hunan Valian Xiangtan Iron & Steel (No. 1 Plate Line)		Plates(N) <i>*(Al+Nb+Ti+V) Treated</i>	AH,DH, EH32/36 Z35*	60mm	CC
		Plates(Q&T) <i>*(Al+Nb+Ti) Treated</i>	AQ,DQ,EQ56	50mm	CC
		 <i>*(Al+Nb+V+Ti) Treated</i>	AQ,DQ,EQ70	50mm	CC
		Plates(TMCP) <i>*(Al+Nb) Treated</i>	A,B,D,E Z35*	40mm	CC
		 <i>*(Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	40mm	CC
		Plates(CR) <i>*Al Treated</i>	A,B*	40mm	CC
		Plates(N) <i>*(Al+Nb) Treated</i>	A,B,D,E Z35*	60mm	CC
		 <i>*(Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	100mm	CC
		Plates(TMCP) <i>*Al Treated</i>	A,B,D*	40mm	CC
		 <i>*(Al+Nb+Ti) Treated</i>	AH,DH,EH,FH 32/36/40 Z35*	40mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(TMCP) <i>*(Al+Nb) Treated</i>	AH,DH32/36*	40mm	CC
Hunan Valian Xiangtan Iron & Steel (No. 2 Plate Line)		Plates(CR) <i>*Al Treated</i>	A,B Z35*	40mm	CC
		Plates(TMCP) <i>*Al Treated</i>	A,B,D Z35*	40mm	CC
			AH,DH, EH32/36 Z35*	40mm	CC
		<i>*(Al+Nb) Treated</i>			
Hunan Valin Lianyuan Iron & Steel Co., Ltd.,		Plates(CR) <i>*Al Treated</i>	A,B,D*	25mm	CC
Jiangmen Xinhui Yili Section Steel Mill Co., Ltd.		Bulb Section(AR) <i>* Billet Source : Anyang Iron & Steel (Group) Co., Ltd., China (ABS Approved Source)</i>	A, B*	13mm	CC
Jiangsu Changqiang Steel Co., Ltd.		Billet <i>*Al Treated</i>	A,B*	(200 x 240) mm	CC
			AH32/36*	(200 x 240) mm	CC
		<i>*(Al+Nb) Treated</i>			
Jiangsu Shagang Group - Hong Fa Steel Making Plant No.1&2		Slab <i>(Al+Ti) Treated</i>	A, B	320mm	CC
		<i>Al Treated</i>	A, B, D	320mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Slab <i>(Al+Nb) Treated</i>	AH/DH/EH 32/36	320mm	CC
			AH/DH/EH/FH 32	320mm	CC
		<i>(Al+Nb+Ti) Treated</i>			
			AH/DH/EH/FH 36/40	320mm	CC
		<i>(Al+Nb+V+Ti) Treated</i>			
			AQ/DQ/EQ/FQ 43/47/63/70	320mm	CC
		<i>(Al+Nb+Ti) Treated</i>			
			D, E	320mm	CC
		<i>(Al+Nb+Ti) Treated</i>			
			E	320mm	CC
		<i>(Al+Nb) Treated</i>			
Jiangsu Shagang Group - Steel Plate Mill No.1&2 Workshop		Plate(AR)*	A, B Z35	40mm	CC
		<i>*Al Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>			
			D Z35	35mm	CC
		<i>*Al Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>			
		Plate(CR)*	A, B Z35	60mm	CC
		<i>*Al Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

Shapes also include Bars; (AR)-As Rolled; (N)-Normalized; (Q&T)-Quenched & Tempered
(CR)-Control Rolled; (TMCP)-Thermomechanical Control Processed; (AC) Accelerated Cooling
(XXX)-Mill Designation for Special Rolling Process
All-Ordinary and Higher Strength, excluding H40 and FH
AH,DH,EH - H32 and H36, unless indicated otherwise
IC-Ingot Cast; CC-Continuous Cast

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plate(CR)* <i>*(Al+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>	AH/DH 32 Z35	40mm	CC
			AH/DH 32/36 Z35	40mm	CC
			<i>*(Al+Nb+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>		
		Plate(CR/NR)* <i>*(Al+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>	A, B Z35	100mm	CC
			AH/DH/EH/FH 32 Z35	100mm	CC
			<i>*(Al+Nb+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>		
			AH/DH/EH/FH 36/40 Z35	100mm	CC
			<i>*(Al+Nb+V+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>		
			D, E Z35	100mm	CC
			<i>*(Al+Nb+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>		
		Plate(Q&T)* <i>*(Al+Nb+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>	AQ/DQ/EQ/FQ 43/47/63/70 Z35	100mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plate(TMCP)*	AH/DH/EH 32/36 Z35	60mm	CC
		<i>*(Al+Nb) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>			
			AH/DH/EH/FH 40 Z35	60mm	CC
		<i>*(Al+Nb+V+Ti) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>			
			D, E Z35	60mm	CC
		<i>*(Al+Nb) Treated. Slab Source: Hangfa Steel Plant of Jiangsu Shagang Group</i>			
Jiangsu Shagang Group Xinrue Special Type Steel Co., Ltd.,		Slab	A,B	180mm(t) x 220mm(w)	CC
			AH32/36	180mm(t) x 220mm(w)	CC
Jiangxi PXSTEEL Industrial Co., Ltd.		Plate(AR)	A,B	30mm	CC
		Plate(CR)	A,B,D*	30mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	30mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
Jiangyin Bofeng Iron & Steel Co., Ltd.		Sections(AR)*	A,B**	30mm	CC
		<i>*Billet Source: Jiangsu Shagang Group Co., Ltd. **Al Treated</i>			
			AH32**	30mm	CC
		<i>*Billet Source: Jiangsu Shagang Group Co., Ltd. **Al Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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 All-Ordinary and Higher Strength, excluding H40 and FH
 AH,DH,EH - H32 and H36, unless indicated otherwise
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
Jiangyin Changda Steel Co., Ltd., Jiangsu		Plates(CR)* <i>*Billet Source: Jiangyin Xingcheng Special Steel Works Co., Ltd. **Al Treated</i>	A,B**	25mm	CC
Jiangyin Xingcheng Special Steel Works Co., Ltd.,		Billet <i>*Al Treated</i>	A,B*	250mm	CC
		Plates(AR) <i>*Al Treated</i>	A,B Z35*	50mm	CC
		<i>*Al Treated</i>	A,B,D*	12mm	CC
		<i>*Al Treated</i>	AH32/36*	12mm	CC
		Plates(CR) <i>*(Al+Ti) Treated</i>	A,B,D Z35*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>	AH,DH32/36 Z35*	80mm	CC
		Plates(N) <i>*(Al+Nb+Ti) Treated</i>	A,B,D,E Z35*	80mm	CC
		<i>*(Al+Nb+Ti) Treated</i>	AH,DH,EH 32/36 Z35*	80mm	CC
		Rolled Bar for Mooring Chain <i>*(Al+Nb) Treated</i>	R3S	186mm	CC
		Rolled Bar(AR)	U3	180mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Slab <i>*Al Treated</i>	A,B*	250mm	CC
			A,B,D*	250mm	CC
			<i>*(Al+Ti) Treated</i>		
			AH,DH32/36*	250mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
Jiangyin Xingcheng Special Steel Works Co., Ltd., (3500 Mill)		Plates(TMCP) <i>*(Al+Nb+Ti) Treated</i>	A,B,D,E Z35*	35mm	CC
			AH,DH, EH32/36 Z35*	35mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
Jiangyin Xingcheng Special Steel Works Co., Ltd., (4300 Mill)		Plates(TMCP) <i>*(Al+Nb+Ti) Treated</i>	A,B,D,E Z35*	70mm	CC
			AH,DH, EH32/36 Z35*	70mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			AH,DH,EH,FH 32/36/40 Z35*	60mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			AH,DH32/36 Z35*	50mm	CC
		<i>*(Al+Ti) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
Jinan Huanghe Special Steel Co., Ltd.		Section - Equal and Unequal Angle (AR)	A, B	16mm	CC
		<i>Blooms/Billets are to be from the same ABS approved source used during qualification</i>			
			AH 32/36	16mm	CC
		<i>Blooms/Billets are to be from the same ABS approved source used during qualification</i>			
Jiuquan Iron & Steel (Group) Co., Ltd., Gansu Province		Plate (CR)	A, B, D	30 mm	CC
Maanshan Iron & Steel		Plate from Coil(CR) (No. 4 Plant)	A,B	20mm	CC
		Plate from Coil(CR)(No. 4 Plant)	AH,DH32/36	20mm	CC
		Plate(AR) (No. 1 Plant)	A,B	25mm	CC
			AH,DH32/36	12.5mm	CC
		Plate(CR) (No. 1 Plant)	AH,DH32/36	25mm	CC
Minmetals Yinkou Medium Plate Co., Ltd.		Plate(CR)	A,B,D Z35*	50mm	CC
		<i>*(Al+Ti) Treated</i>	AH,DH32 Z35*	50mm	CC
		<i>*(Al+Ti) Treated</i>	AH,DH36 Z35*	50mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
Nanjing Iron & Steel Co. Ltd. (NISCO)		Plate(N / TMCP) <i>*(Al+Ti) Treated</i>	AH,DH,EH32 Z35*	50mm	CC
			AH,DH,EH36 Z35*	50mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
		Plate(TMCP) <i>*(Al+Ti) Treated</i>	A,B,D,E Z35*	50mm	CC
		Plate(AR)	A,B Z35	25 mm	CC
		Plate(CR)	A,B Z35	40 mm	CC
			AH,DH 32/36 Z35	35mm	CC
			<i>(Al+Nb+Ti) Treated</i>		
			D Z35	35 mm	CC
			<i>(Al+Nb+Ti) Treated</i>		
		Plate(N) <i>(Al+Nb) Treated</i>	A,B,D, E Z35	60 mm	CC
			AH,DH, EH32/36 Z35*	80mm	CC
		<i>*(Al+Nb+V) Treated</i>			
		Plate(Q&T) <i>*(Al+V) Treated</i>	5% Ni*	50mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plate(Q&T) <i>(Al+Nb+V+Ti) Treated</i>	AQ,DQ,EQ,FQ 43/47/51/56 Z35	60 mm	CC
		Plate(TMCP) <i>(Al+Nb+Ti) Treated</i>	AH,DH,EH,FH 32/36/40 Z35	40 mm	CC
			AQ,DQ,EQ,FQ 43/47 Z35 <i>(Al+Nb+V+Ti) Treated</i>	40 mm	CC
			D, E Z35 <i>(Al+Nb+Ti) Treated</i>	40 mm	CC
		Slabs	A,B	180mm x 240mm	CC
			AH 32/36 <i>Nb Treated</i>	180mm x 240mm	CC
Nanjing Iron & Steel Co. Ltd. Yeshan Mining Co. Steel Rolling Mill		Shapes (AR) <i>*Nb Treated. Slab source: Nanjing Iron and Steel Co. Ltd. China</i>	A,B*	15 MM	*
		Shapes(CR) <i>*Nb Treated. Slab source: Nanjing Iron and Steel Co. Ltd. China</i>	AH32/36*	15 MM	*
Nanyang Hanye Special Steel Co., Ltd., Henan		Plate(TMCP) <i>*(Al+Nb) Treated</i>	A,B,D*	60mm	IC
			A,B,D* <i>*(Al+Nb) Treated</i>	50mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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AH,DH,EH - H32 and H36, unless indicated otherwise
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
Qinhuangdao Shougang, Plate Mill Co. Ltd		Plate(TMCP) <i>*(Al+Nb) Treated</i>	AH,DH32/36*	60mm	IC
			AH,DH32/36*	50mm	CC
		Plates(AR) <i>*Qinhuangdao Shouqin Metal Material Co. Ltd.</i>	A,B	32mm	CC*
			AH,DH32/36*	32mm	CC**
Qinhuangdao Shouqin Metal Materials Co., Ltd.			<i>*Al/(Al+V)/(Al+Nb) Treated. **Qinhuangdao Shouqin Metal Material Co. Ltd.</i>		
		Plates(CR) <i>*Al/(Al+Nb) Treated. Slab Source: Qinhuangdao Shouqin Metal Material Co. Ltd.</i>	AH,DH32/36*	32mm	CC**
		Plates(AR)	A,B	16mm	CC
		Plates(CR)	A,B	32mm	CC
			A,B,D*	50mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	50mm	CC
	<i>*Al / (Al+Nb) Treated</i>				
	Plates(N) <i>*Al Treated</i>	A,B Z35*	130mm	CC	
		AH,DH, EH32/36 Z35*	100mm	CC	
	<i>*(Al+Nb+Ti+V) Treated</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(N) <i>*(Al+Nb+V+Ti) Treated</i>	AH,DH,EH40 Z35*	80mm	CC
		<i>*Al Treated</i>	AH,DH32 Z35*	100mm	CC
		<i>*(Al+Nb) Treated</i>	AH,DH36 Z35*	80mm	CC
		<i>*Al Treated</i>	D,E Z35*	50mm	CC
		<i>*Al Treated</i>	EH32 Z35*	50mm	CC
		<i>*(Al+Nb) Treated</i>	EH36 Z35*	50mm	CC
		Plates(Q&T) <i>*(Al+Nb+V+Ti) Treated</i>	AQ,DQ, EQ43/47 Z35*	80mm	CC
		<i>*(Al+Nb+V+Ti) Treated</i>	AQ,DQ, EQ51/56 Z35*	80mm	CC
		<i>*(Al+Nb+V+Ti) Treated</i>	AQ,DQ, EQ63/70 Z35*	50mm	CC
		Plates(TMCP) <i>*(Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	60mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(TMCP) <i>*(Al+Nb+V+Ti) Treated</i>	AH,DH,EH40 Z35*	60mm	CC
			AQ,DQ, EQ43/47 Z35*	50mm	CC
			AQ,DQ,EQ51 Z35*	50mm	CC
			FH32/36/40 Z35*	40mm	CC
Rizhao Steel Wire Co., Ltd., Rizhao		Coiled Plate <i>*Al Treated</i>	A,B*	25mm	CC
		Plate from Coil <i>*Al Treated</i>	A,B*	25mm	CC
SGIS Songshan Co., Ltd., Guangdong		Plates(AR)	A,B	36mm	CC
		Plates(CR)	A,B,D	36mm	CC
			AH,DH32/36*	36mm	CC
			AH32/36*	36mm	CC
		Plates(N) <i>*(Al+Nb+Ti) Treated</i>	A,B,D Z35*	60mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

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AH,DH,EH - H32 and H36, unless indicated otherwise
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>	
<u>PEOPLES REPUBLIC OF CHINA</u>						
Shandong Iron & Steel Co., Ltd., Jinan Company		Plates(N) <i>*(Al+Nb) Treated</i>	A,B,D Z35*	60mm	CC	
			A,B,D,E Z35* <i>*Al+Nb+Ti Treated</i>	60mm	CC	
			AH,DH, EH32/36 Z35* <i>*(Al+Nb+Ti) Treated</i>	60mm	CC	
			AH,DH32/36 Z35* <i>*(Al+Nb) Treated</i>	60mm	CC	
			E* <i>*Al+Nb+Ti Treated</i>	36mm	CC	
			Plates(TMCP) <i>*Al+V+Nb+Ti Treated</i>	EH32/36/40*	36mm	CC
			Bulb Flat(HR)	A,B	12mm	CC
				AH32/36* <i>*Nb Treated</i>	12mm	CC
			Plates from Coil (TMCP) <i>*Al Treated</i>	A,B*	12.5mm	CC
				AH32/36* <i>*Al Treated</i>	12.5mm	CC
			Plates(AR) <i>*Al Treated</i>	A,B,D*	30mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(AR) <i>*Al Treated</i>	AH,DH32/36*	30mm	CC
		Plates(CR) <i>*(Al+Ti) Treated</i>	A,B,D Z35*	60mm	CC
			AH,DH32/36 Z35*	60mm	CC
			<i>*(Al+Nb+V+Ti) Treated</i>		
			AH,DH32/36*	30mm	CC
			<i>*Al Treated</i>		
		Plates(N) <i>*Al Treated</i>	A,B,D,E Z35*	50mm	CC
			A,B,D,E*	50mm	CC
			<i>*Al Treated</i>		
			AH,DH, EH32/36 Z35*	50mm	CC
			<i>*Al Treated</i>		
			AH,DH, EH32/36*	50mm	CC
			<i>*Al Treated</i>		
		Plates(TMCP)	AH,DH,EH,FH 32/36/40 Z35 *	60mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(TMCP)	AH,DH,EH,FH 32/36/40 Z35 *	60mm	CC
		<i>*(Al+Nb+V+Ti) Treated</i>			
			AH,DH,EH,FH 32/36/40*	60mm	CC
		<i>*(Al+Nb+V+Ti) Treated</i>			
Shandong Shiheng Special Steel Group Co., Ltd.		Blooms/Billets	A, B	150mm x 180mm	CC
			AH 32/36	150mm x 180mm	CC
		<i>Al Treated</i>			
Shanxi Taigang Stainless Steel Co., Ltd., Shanxi		Plate from Coil(CR)	A,B,D*	24mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	24mm	CC
		<i>*(Al+Nb+V) Treated</i>			
Shougang Corporation, Beijing		Plates(AR)	A,B*	30mm	CC
		<i>*Al Treated</i>			
		Plates(CR)	A,B,D*	40mm	CC
		<i>*Al / (Al+V) Treated</i>			
			AH,DH32*	30mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	30mm	CC
		<i>*(Al+V) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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 (CR)-Control Rolled; (TMCP)-Thermomechanical Control Processed; (AC) Accelerated Cooling
 (XXX)-Mill Designation for Special Rolling Process
 All-Ordinary and Higher Strength, excluding H40 and FH
 AH,DH,EH - H32 and H36, unless indicated otherwise
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AMERICAN BUREAU OF SHIPPING
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
Shougang Jingtang United Iron & Steel Co., Ltd.		Coil*	A,B,D**	18mm	CC
		*Uncoiling Facility: Sinosteel (Tianjin) Steel Processing Co., Ltd. **Al Treated.			
			AH,DH32**	18mm	CC
		*Uncoiling Facility: Sinosteel (Tianjin) Steel Processing Co., Ltd. **Al Treated.			
			AH,DH32/36**	18mm	CC
		*Uncoiling Facility: Sinosteel (Tianjin) Steel Processing Co., Ltd. **(Al+Nb) Treated.			
Shougang Qian'an Iron & Steel, Co., Ltd., Hebei		Coil (CR)	A,B,D*	18mm	CC
		*Al Treated			
			AH,DH32/36*	18mm	CC
		*Al / (Al+Nb) Treated			
		Coil Plate (CR)	A,B*	18mm	CC
		*Al Treated			
			A,B,D*	18mm	CC
		*Al Treated			
			AH,DH32*	18mm	CC
		*Al Treated			
			AH,DH32/36*	18mm	CC
		*(Al+Nb) Treated			
Sinosteel (Tianjin) Steel Processing Co., Ltd.		Plate from Coil(CR)*	A,B,D**	18mm	CC
		*Coil supplier: Hanbao Iron & Steel Co., Ltd. Hansteel Group & Shougang Qian'an Iron & Steel Co., Ltd.. **Al Treated			

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plate from Coil(CR)* <i>*Coil supplier: Shougang Jingtang United Iron & Steel Co., Ltd. **Al Treated.</i>	A,B,D**	18mm	CC
			AH,DH32**	18mm	CC
					<i>*Coil supplier: Shougang Jingtang United Iron & Steel Co., Ltd. **Al Treated.</i>
			AH,DH32/36**	18mm	CC
					<i>*Coil supplier: Hanbao Iron & Steel Co., Ltd. Hansteel Group & Shougang Qian'an Iron & Steel Co., Ltd.. **Al+Nb Treated</i>
			AH,DH32/36**	18mm	CC
					<i>*Coil supplier: Shougang Jingtang United Iron & Steel Co., Ltd. **(Al+Nb) Treated.</i>
Suqian Nanjing Iron & Steel Group Jinxin Steel Rolling Co., Ltd.		Bulb Flat(AR)*	A, B	16mm	IC & CC
					<i>*Slab Source: Nanjing Iron & Steel Co. Ltd. (NISCO)</i>
			AH32, AH36	16mm	IC & CC
					<i>*Slab Source: Nanjing Iron & Steel Co. Ltd. (NISCO); Nb Treated</i>
		Section (Equilateral Angle)(AR)*	A	32mm	IC & CC
					<i>*Slab Source: Nanjing Iron & Steel Co. Ltd. (NISCO)</i>
Suzhou Longxing Steel Processing Co., Ltd.		Plate from Coil*(CR)	A,B,D**	18mm	CC
					<i>*Coil Supplier: Shougang Qian'an Iron & Steel Group Co., Ltd. **Al Treated.</i>

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plate from Coil*(CR)	AH,DH32**	18mm	CC
		<i>*Coil Supplier: Shuangang Qian'an Iron & Steel Group Co., Ltd.</i>			
					<i>**Al Treated.</i>
			AH,DH36**	18mm	CC
		<i>*Coil Supplier: Shuangang Qian'an Iron & Steel Group Co., Ltd.</i>			
					<i>** (Al+Nb) Treated.</i>
Suzhou Suxin Special Steel Co., Ltd.		Rolled Bar (AR, Q&T)	U3	120mm	CC
Tangshan Greatwall Iron and Steel Group, Yanshan		Billets	A, B	150mm x 150mm	CC
		Plate from Coil (AR)	A, B	15.5mm	CC
			A, B	16mm	CC
			AH,DH32/36*	15.5mm	CC
		<i>*(Al+V) Treated</i>			
		Slab	A,B	165mm x 280mm	CC
			AH,DH32/36	165mm x 280mm	CC
Tangshan Heavy Plate Co., Ltd., Hebei		Plate(CR)	A, B, D	38mm	CC
			AH,DH,32/36	38mm	CC
Tangshan Shengcai Steel Co., Ltd., Tangshan		Shapes (Equal/Unequal Leg Angles)	A,B*	18mm	CC
		<i>*Al Treated</i>			

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COUNTRY

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<u>PEOPLES REPUBLIC OF CHINA</u>					
Tangshan Xinxin Special Steel Co., Ltd., Hebei Province		Bulb Flat (AR)	A, B	14mm	CC
		<i>*Billet source: ABS approved source - Handan iron & steel Stock Co., Ltd., China</i>			
			AH32/36	14mm	CC
		<i>*Billet source: ABS approved source - Handan iron & steel Stock Co., Ltd., China</i>			
Tianjin BXsteel Longshine Steel Processing Co., Ltd.		Plates from coil(CR)**	A,B*	20mm	CC
		<i>*(Al+Ti) Treated. **Coil Supplier: Bengang Steel Plate Co., Ltd.</i>			
Tianjin Iron & Steel Group Co., Ltd.		Plate(AR)	A,B	38mm	CC
		<i>*Al Treated</i>			
		Plate(CR)	AH, DH 32/36	38mm	CC
		<i>*(Al+Nb) Treated</i>			
			D	38mm	CC
		<i>*Al Treated</i>			
		Plate(N)	AH, DH 32/36	50mm	CC
		<i>*(Al+Nb) Treated</i>			
Tianjin Yongheng Enterprise Co., Ltd.		Shapes(AR)*	A,B	15mm	CC
		<i>*Billet Source: Tangshan Greatwall Iron and Steel Group</i>			
			A,B**	15mm	CC
		<i>*Billet Source: Minmetals Yingkou Medium Plate Co., Ltd. **Al Treated</i>			
			AH32/36**	15mm	CC
		<i>*Billet Source: Tangshan Greatwall Iron and Steel Group. **(Al+V) Treated</i>			

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Shapes(AR)*	AH32/36**	15mm	CC
		<i>*Billet Source: Minmetals Yingkou Medium Plate Co., Ltd.</i>			
		<i>** (Al+Nb) Treated</i>			
Wuhan Iron & Steel Group Echeng Iron & Steel Co., Ltd.		Plates(AR)	A,B*	50mm	CC
		<i>*Al Treated</i>			
		Plates(CR)	A,B,D*	50mm	CC
		<i>*(Al+Nb) Treated</i>			
		Plates(N)	A,B,D,E*	50mm	CC
		<i>*(Al+Nb) Treated</i>			
			AH,DH, EH32/36*	50mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
			AH,DH32/36*	50mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
Wuxi Zhongrui Metal Manufacture Co., Ltd.		Bulb Flat(AR)	A,B*	14mm	CC
		<i>*Al Treated</i>			
			AH 32/36	14mm	CC
		<i>*Al Treated</i>			
		Flat Bar(AR)	A, B	30mm	CC
			AH 32/36	30mm	CC
		<i>*Al Treated</i>			
		Unequal Angle(AR)	A, B	17mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
Wuyang Iron & Steel Co., Ltd. Wugang, Henan		Unequal Angle(AR) <i>*Al Treated</i>	AH 32/36	17mm	CC
		Plates(AR)	A, B	100mm	CC
			A,B	100mm	IC
		Plates(CR)	A,B Z35	50mm	CC
			A,B,D Z35*	40mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36 Z35*	40mm	CC
		<i>*Al Treated</i>			
			AH32/36 Z35*	50mm	CC
		<i>*Al Treated</i>			
	Plates(N)	A,B,D,E Z35*	100mm	IC	
	<i>*(Al+Nb) Treated</i>				
		AH,DH, EH32/36 Z35*	100mm	IC	
	<i>*(Al+Nb) Treated</i>				
	Plates(Q&T)	AQ,DQ,EQ 43/47/51 Z35*	100mm	CC	
	<i>*(Al+V+Nb) Treated</i>				
		AQ,DQ,EQ 56/63/70*	80mm	CC	
	<i>*(Al+V+Nb+Ti) Treated</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>PEOPLES REPUBLIC OF CHINA</u>					
Wuyang New Wide & Heavy Steel Plate Co., Ltd.		Plates(Q&T)	AQ,DQ,EQ 56/63/70*	140mm	IC
			<i>*(Al+V+Nb+Ti) Treated</i>		
		Plates(TMCP)	AH,DH, EH32/36	60mm	CC
			AH,DH, EH32/36 Z35	60mm	CC
			D, E	60mm	CC
		Plates(CR)	A, B, D	60mm	CC
			A, B, DZ35	60mm	CC
			AH,DH 32/36/40	60mm	CC
			AH,DH 32/36/40 Z35	60mm	CC
	Xinyu Iron & Steel Co. Ltd., Xinyu		Bulb Plate(AR)	A,B	14mm
			<i>*Al Treated</i>		
			AH 32/36	14mm	IC
			<i>*Al Treated</i>		
		Plates(AR)	A,B	20mm	CC
			<i>*Al Treated</i>		
			A,B Z35	20mm	CC
			<i>*Al Treated</i>		
			A,B,D	20mm	CC
			A,B,D Z35	20mm	CC
	Plates(N)	A,B,D,E Z35*	60mm	CC	
		<i>*Al / (Al+Nb+Ti) Treated</i>			

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(N) <i>*Al / (Al+Nb+Ti) Treated</i>	A,B,D,E*	60mm	CC
			AH,DH, EH32/36 <i>*(Al+Nb) / (Al+Nb+Ti) Treated</i>	60mm	CC
			AH,DH, EH32/36 Z35 <i>*(Al+Nb) / (Al+Nb+Ti) Treated</i>	60mm	CC
		Plates(Q&T) <i>*(Al+Nb) Treated</i>	AQ,DQ, EQ43/47 Z35*	80mm	CC
			AQ,DQ, EQ51/56 Z35* <i>*(Al+Nb+V) Treated</i>	115 mm	CC
			AQ,DQ, EQ63/70 Z35* <i>*(Al+Nb) Treated</i>	115 mm	CC
		Plates(TMCP) <i>*Al Treated</i>	A,B Z35*	60mm	CC
			A,B* <i>*Al Treated</i>	60mm	CC
			A,B,D <i>*Al Treated</i>	40mm	CC
			A,B,D Z35 <i>*Al Treated</i>	40mm	CC

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(TMCP) <i>*(Al+Ti) Treated</i>	A,B,D Z35*	60mm	CC
			A,B,D,E Z35*	60mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			A,B,D,E*	60mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			AH,DH, EH32/36	40mm	CC
			<i>*(Al+Nb) Treated</i>		
			AH,DH, EH32/36 Z35	40mm	CC
			<i>*(Al+Nb) Treated</i>		
			AH,DH, EH32/36 Z35*	60mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			AH,DH, EH32/36*	60mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			AH,DH,EH, FH32/36/40*	50mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			AH,DH,EH,FH 32/36/40 Z35*	50mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		

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<u>PEOPLES REPUBLIC OF CHINA</u>					
		Plates(TMCP) <i>*(Al+Ti) Treated</i>	AH,DH32/36 Z35*	60mm	CC
Yinshan Section Steel Corporation of Laiwu Steel Group Ltd.		Plates(AR)	A,B	40mm	CC
		Plates(CR) <i>*Al Treated</i>	A,B,D*	60mm	CC
			AH,DH32/36* <i>*(Al+Nb+V+Ti) Treated</i>	60mm	CC
Zhongpu (Handan) Iron & Steel Co., Ltd., Hebei Province		Plate (CR)	A, B, D	38mm	CC
			AH,DH32/36	38mm	CC
Zhongpu (Handan) Iron & Steel Co., Ltd., No. 2 Mill		Plates(CR) <i>*Al Treated</i>	A,B,D*	38mm	CC
			AH,DH32/36* <i>*(Al+Nb) Treated</i>	38mm	CC
<u>POLAND</u>					
ArcelorMittal Poland S.A.		Sections (AR)	A	30 mm	CC
		Slabs, Blooms, Billets	A, B, D	...	CC
			AH32/36	...	CC

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<u>POLAND</u>					
ArcelorMittal Poland S.A. Oddzial Batory, Chorzow		Plate(AR)* <i>*Slab Source: ArcelorMittal Poland S.A. Dabrowa Gornicza. **Al Treated</i>	A**	50mm	CC
		Plate(N)* <i>*Slab Source: ArcelorMittal Poland S.A. Dabrowa Gornicza. **Al Treated</i>	A**	50mm	CC
Huta Bankowa, Sp. z.o.o.		Shapes(AR) Bulb Flat <i>Slabs from ABS approved sources.</i>	A	20mm	CC
			A, B	13mm	CC
			AH,DH32/36*	13mm	CC
					<i>Slabs from ABS approved sources. *Al Treated</i>
Huta Pokoj S.A. - Euroblacha S.A., Ruda Slaska		Plates(N) <i>*Al Treated</i>	A,B,D*	40mm	CC
		Shapes(AR)	A	15mm	CC
ISD Huta Czestochowa Sp. z o.o.		Plates(AR) <i>*Al Treated</i>	A,B*	51mm	CC
		Plates(N) <i>*Al Treated</i>	A,B,D,E*	51mm	CC
			AH,DH, EH32/36*	60mm	CC
					<i>*(Al+Nb) Treated</i>

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<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>POLAND</u>					
P.H.U.P. Interspeed Sp. z.o.o.		Shapes(AR) <i>*Slabs and Ingots are to be from the same ABS approved source used during qualification.</i>	A	12mm	CC & IC
<u>REPUBLIC OF CHINA</u>					
China Steel Corp. Kaohsiung		Plates(AR) <i>*Al Treated</i>	A,B*	51mm	CC
		Plates(CR) <i>*(Al+Nb) Treated</i>	AH,DH32/36*	51mm	CC
		Plates(N) <i>*Al Treated</i>	A,B,D,E*	51mm	CC
			AH,DH, EH32/36*	40mm	CC
			<i>*(Al+Nb) Treated</i>		
		Plates(TMCP) <i>*(Al+Nb) Treated</i>	AH,DH, EH32/36/40 Z35*	75mm	CC
Dragon Steel Corporation			AH,DH, EH32/36/40*	75mm	CC
			<i>*(Al+Nb) Treated</i>		
		Shapes (H-beam) (CR) <i>*Nb Treated</i>	AH,DH,EH47*	65mm	CC
		<i>*(Al+Nb+V+Ti) Treated</i>			
		Shapes (H-beam) (CR) <i>*Nb Treated</i>	AH,DH32/36*	26mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>REPUBLIC OF CHINA</u>					
Feng Hsin Iron & Steel Co., Ltd.		Shapes (Flat Bar, Angle Bar) (AR)	A	25mm (1")	CC
TS Steel Company Limited, Taichung		Angle Bar (AR) <i>*Al Treated</i>	A*	15mm	CC
			AH32/36*	12mm	CC
		<i>*(Al+V) Treated</i>			
		Channel (U) (AR) <i>*Al Treated</i>	A*	6.5mm	CC
		Flat Bar (AR) <i>*Al Treated</i>	A*	25mm	CC
			AH32/36*	25mm	CC
		<i>*(Al+V) Treated</i>			
Tung Ho Enterprises, Miaoli Works		Plates(CR) <i>*Al Treated</i>	A,B*	50mm	CC
			AH32/36*	50mm	CC
		<i>*(Al+V) Treated</i>			
		Semi-finished products*	A,B**	220mm	CC
		<i>*(Slab/Bloom/Billet/Beam Blank), **Al Treated</i>			
		Shapes(CR)	AH,DH 32/36/40*	28mm	CC
		<i>*(Al+V) Treated</i>			
	Shapes(H-Beam) <i>*Al Treated</i>	A,B*	18mm	CC	

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<u>REPUBLIC OF CHINA</u>					
		Slabs	AH,DH 32/36/40*	220mm	CC
		<i>*(Al+V) Treated</i>			
Tung Ho Steel Enterprise Corporation, Kaohsiung Works, Taiwan		Shape(CR)	A	18mm	CC
		<i>* Slab Source: Tung Ho Enterprises, Miaoli Works - ABS Approved Source</i>			
		Shape(CR)*	AH,DH 32/36/40**	18mm	CC
		<i>* Slab Source: Tung Ho Enterprises, Miaoli Works - ABS Approved Source. **V Treated</i>			
<u>ROMANIA</u>					
ArcelorMittal Galati S.A.		Plates (N)	A,B,D,E	60mm	CC
			AH,DH, EH32/36	60mm	CC
		Plate (CR)	AH,DH32/36	20mm	CC
		Plates (AR)	A,B	60mm	CC
		Plates (CR)	A,B,D	20mm	CC
Laminorul SA, Braila		Shapes (AR)	A	12mm	CC
Mechel Targoviste SA		Billets / Blooms	A*	150x180mm	CC
		<i>*Al, (Al+V) Treated</i>			
			AH36*	150x180mm	CC
		<i>*Al, (Al+V) Treated</i>			

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<u>RUSSIA</u>					
JSC EVRAZ Nizhniy Tagil Metallurgical Plant		Slabs	A,B,D,E*	300mm	CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36*	300mm	CC
		<i>*(Al+V) / (Al+V+Nb) Treated</i>			
JSC Ural Steel, Orenburkskaya Region, Novotroitsk		Plates(AR)	A	32mm	IC
		Plates(N)	A	32mm	CC
			A,B,D,E	32mm	IC
			AH,DH, EH32/36	32mm	IC
OJSC Magnitogorsk Iron & Steel Works		Plates(TMCP+AC	A,B,D Z35*	65mm	CC
		<i>*(Al+Nb+V+Ti) Treated</i>			
			AH,DH32/36 Z35*	65mm*	CC
		<i>*(Al+Nb+V+Ti) Treated</i>			
OJSC Novolipetsk Steel		Slabs	A,B,D,E	...	CC
			AH,DH, EH32/36	...	CC
Severstal OJSC, Vologda Region, Cherepovetz		Plate(N)	AH,DH32/36	40mm	CC
		Plate(Q&T)	AH,DH, EH36/40 Z35	40mm	CC
			AH32/36/40	70mm	CC
		Plates (TMCP+AC)	A,B	70mm	CC

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<u>RUSSIA</u>					
		Plates (TMCP+AC) <i>*Al / (Al+Nb) Treated</i>	A,B,D,E Z35*	50mm	CC
			A,B,D,E*	50mm	CC
					<i>*Al / (Al+Nb) Treated</i>
			AH,DH, EH32/36/40	50mm	CC
		Plates(AR)	A,B,D	16mm	CC
			AH,DH32/36	12mm	CC
		Plates(CR)	AH,DH,EH40	12mm	CC
		Plates(N)	A,B	51mm	CC
			A,B,D	32mm	CC
		Slabs <i>*Al / (Al+Nb) Treated</i>	A,B,D*	315mm	CC
			AH,DH,EH 32/36/40	315mm	CC
					<i>*Al / (Al+Nb) Treated</i>
<u>SOUTH AFRICA</u>					
ArcelorMittal Steel South Africa Limited, Gauteng		Plate(N)	AH,DH, EH32/36*	30mm	CC
					<i>*Al Treated</i>

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
Dong Il Steel Co., Ltd., Sasang Works		Shapes - Channels (AR)	A	7.5mm	CC*
		<i>*Billet Source: Daisan Seiko Co., Ltd., Pohang Iron & Steel Co., Ltd., Shougang Corporation, Jinan Iron & Steel Group</i>			
		Shapes - Equal Angles, Inverted Angles (AR)	A	15mm	CC*
		<i>*Billet Source: Daisan Seiko Co., Ltd., Pohang Iron & Steel Co., Ltd., Shougang Corporation, Jinan Iron & Steel Group</i>			
		Shapes - Inverted Angles (AR)	AH32/36*	16mm	CC**
	<i>*(Al+V+Nb) Treated. **Billet Source: Daisan Seiko Co., Ltd., Pohang Iron & Steel Co., Ltd.</i>				
Dongkuk Steel Mill Co., Pohang Works		Shapes - Unequal Angles (AR)	A	12mm	CC*
		<i>*Billet Source: Daisan Seiko Co., Ltd., Pohang Iron & Steel Co., Ltd., Shougang Corporation, Jinan Iron & Steel Group</i>			
		Plates(AR)*	A,B**	83mm	CC
		<i>*Slab Source: CST Brazil. **Al Treated</i>			
			A,B**	50mm	CC
	<i>*Slabs Source: Jiangsu Shagang Group Co., Ltd., Hong Fa Steel Plant. **Al Treated</i>				
			AH32/36**	35mm	CC
	<i>*Slabs Source: Jiangsu Shagang Group Co., Ltd., Hong Fa Steel Plant. **Al Treated</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

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<u>SOUTH KOREA</u>					
		Plates(AR)*	D*	35mm	CC
		<i>*Slabs Source: Jiangsu Shagang Group Co., Ltd., Hong Fa Steel Plant. **Al Treated</i>			
			DH32/36**	25mm	CC
		<i>*Slabs Source: Jiangsu Shagang Group Co., Ltd., Hong Fa Steel Plant. **(Al+Nb) / (Al+V) / (Al+Ti) Treated</i>			
		Plates(CR)	A,B,D*	50mm	CC
		<i>*Al Treated</i>			
			AH,DH32*	35mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	35mm	CC
		<i>*(Al+Nb+V+Ti) treated</i>			
		Plates(CR/N)*	AH,DH32**	25mm	CC
		<i>*Slabs Source: JFE Steel Corp, West Japan Works. **Al Treated</i>			
		Plates(TMCP)*	A,B,D,E**	50mm	CC
		<i>*Slab Source: Blue Scope Steel, Australia. **(Al+Nb) / (Al+Ti) Treated</i>			
			AH,DH, EH32/36**	50mm	CC
		<i>*Slab Source: JFE Steel Corp., West Japan Works. **(Al+Nb+Ti) Treated</i>			
			AH,DH, EH32/36**	50mm	CC
		<i>*Slab Source: Blue Scope Steel, Australia. **(Al+Nb) / (Al+Ti) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

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<u>SOUTH KOREA</u>					
Dongkuk Steel Mill Co.Ltd.- Dangjin Works		Plates(TMCP)*	D,E**	50mm	CC
		<i>*Slab Source: JFE Steel Corp., West Japan Works. **Al Treated</i>			
		Plate(AR)*	A,B	50mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. Al Treated</i>			
			AH 32/36 (Z35)	35mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. (Al+Ti) Treated</i>			
			D	35mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. Al Treated</i>			
			DH 32/36 (Z35)	25mm	CC
	<i>*Slabs are to be from the same ABS approved source used during qualification. (Al+Ti) Treated</i>				
		Plate(CR)*	A,B,D	50mm	CC
	<i>*Slabs are to be from the same ABS approved source used during qualification. Al Treated</i>				
			AH,DH 32/36 (Z35)	50mm	CC
	<i>*Slabs are to be from the same ABS approved source used during qualification. (Al+Nb+Ti) Treated</i>				
		Plate(N)*	A,B,D Z35**	100mm	CC
	<i>*Slabs are to be from the same ABS approved source used during qualification. **Al Treated</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

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<u>SOUTH KOREA</u>					
		Plate(N)*	AH,DH,EH 32 (Z35)	70mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. Al Treated</i>			
			AH,DH,EH 36 (Z35)	70mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. (Al+Nb+Ti+V) Treated</i>			
			E (Z35)	83mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. Al Treated</i>			
		Plate(TMCP)*	A,B,D	83mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. Al Treated</i>			
			AH,DH,EH 32/36 (Z35)	83mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. (Al+Nb+Ti) Treated</i>			
			AH,DH,EH 40 (Z35)	83mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. (Al+Nb+Ti) Treated</i>			
			E (Z35)	83mm	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. (Al+Nb+Ti) Treated</i>			
DongkukSteel Mill Co. Pohang Works Sectors Mill		Shapes(AR)	A,B	32mm	CC*
		<i>*Slabs are to be from the same ABS approved source used during qualification.</i>			

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<u>SOUTH KOREA</u>					
Fine Besteel Co., Ltd., Changnyeong		Shapes(AR)	AH32	32mm	CC*
		<i>*Slabs are to be from the same ABS approved source used during qualification.</i>			
			D	25mm	CC*
		<i>*Slabs are to be from the same ABS approved source used during qualification.</i>			
			DH32	25mm	CC*
		<i>*Slabs are to be from the same ABS approved source used during qualification.</i>			
			Shape - Angle (AR)	A	17mm
	<i>Slabs are to be from the same ABS approved source used during qualification.</i>				
			AH32/36	17mm	CC
	<i>Slabs are to be from the same ABS approved source used during qualification.</i>				
		Shape - Angle (CR)	B, D, E*	18mm	CC
	<i>*Al Treated. Slabs are to be from the same ABS approved source used during qualification.</i>				
		Shape - Flat Bar (AR)*	A	(20x150)/(30x2	CC
	<i>*Slabs are to be from the same ABS approved source used during qualification.</i>				

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<u>SOUTH KOREA</u>					
		Shape - Flat Bar (AR)*	AH32/36**	(20x150)/(30x2)	CC
		<i>*Slabs are to be from the same ABS approved source used during qualification. **(Al+Nb) Treated</i>			
		Shape - Inverted Angle (AR)	A*	18mm	CC
		<i>*Al Treated. Slabs are to be from the same ABS approved source used during qualification.</i>			
			AH32/36*	18mm	CC
		<i>*(Al+Nb) Treated. Slabs are to be from the same ABS approved source used during qualification.</i>			
Hyundai Steel Company - Dangjin Works		Coils(AR)	A,B*	16mm	CC
		<i>*Al Treated</i>			
		Coils(TMCP)	AH32/36*	16mm	CC
		<i>*(Al+Nb) Treated</i>			
		Plate from Coil (TMCP)	A,B*	22mm	CC
		<i>*Al Treated, "Z35" Quality, (Uncoiling Facility - Hanil Steel Co. Ltd.)</i>			
			AH32/36*	22mm	CC
		<i>*(Al+Nb) Treated, "Z35" Quality, (Uncoiling Facility - Hanil Steel Co. Ltd.)</i>			
		Plate(AR)	A,B Z35*	70mm	CC
		<i>*Al Treated</i>			

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<u>SOUTH KOREA</u>					
		Plate(AR) <i>*Al Treated</i>	AH,DH32/36*	20mm	CC
		<i>*(Al+Nb) Treated</i>	AH32/36*	16mm	CC
		<i>*(Al+V) Treated</i>	AH32/36*	35mm	CC
		<i>*Al Treated</i>	D*	35mm	CC
		Plate(CR) <i>*(Al+Nb+Ti) Treated, ("Z35" Quality)</i>	A,B,D*	50mm	CC
		<i>*(Al+Nb+Ti) Treated, ("Z35" Quality)</i>	AH,DH32/36*	35mm	CC
		Plate(N) <i>*(Al+Nb+V) Treated</i>	A,B,D Z35*	100mm	CC
		<i>*(Al+V+Nb) Treated, ("Z35" Quality)</i>	A,B,D,E*	83mm	CC
		<i>*(Al+V+Nb) Treated, ("Z35" Quality)</i>	AH,DH,EH32/3	83mm	CC
		Plate(TMCP) <i>*(Al+Nb+Ti) Treated</i>	A,B,D,E Z35*	100mm	CC
		<i>*(Al+Nb+Ti) Treated, ("Z35" Quality)</i>	A,B,D,E*	50mm	CC

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<u>SOUTH KOREA</u>					
		Plate(TMCP) <i>*(Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	83mm	CC
			AH,DH,EH 40* <i>*(Al+Nb+Ti) Treated, ("Z35" Quality)</i>	83mm	CC
			AH,DH,EH32/3 <i>*(Al+Nb+Ti) Treated, ("Z35" Quality)</i>	50mm	CC
			VH-055, VH-060 * <i>(Al+Nb+Ti) Treated</i>	40mm	CC
		Slab <i>*Al, (Al+Nb+Ti), (Al+Nb+V) Treated</i>	A,B,D,E*	300mm	CC
			AH,DH,EH 40* <i>(Al+Nb+Ti) Treated</i>	300mm	CC
			AH,DH,EH32/3 <i>*(Al+V), (Al+Nb+Ti), (Al+Nb+V) Treated</i>	300mm	CC
			AH,DH32/36* <i>*Al Treated</i>	250mm	CC
			AH32/36* <i>*(Al+Nb) Treated</i>	210mm	CC
			VH-055, VH-060 * <i>(Al+Nb+Ti) Treated</i>	250mm	CC
Hyundai Steel Company - Incheon Works		Shape (AR)	A, B	28mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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(XXX)-Mill Designation for Special Rolling Process
All-Ordinary and Higher Strength, excluding H40 and FH
AH,DH,EH - H32 and H36, unless indicated otherwise
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AMERICAN BUREAU OF SHIPPING
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
Hyundai Steel Company - Pohang Works, No. 1		Shape (AR) <i>Nb or V or (Nb+Al) or (V+Al) Treated</i>	AH 32/36	44mm	CC
		Section - Angle (AR) <i>(Al+Nb) Treated</i>	AH32/36	18mm	CC
			E	18mm	CC
		Section - Angle (TMCP) <i>(Al+Nb) Treated</i>	FH40	18mm	CC
		Section - H-Beam (AR)	A	37mm	CC
			AH/DH 32/36	37mm	CC
			<i>(Al+Nb) Treated</i>		
Hyundai Steel Company - Pohang Works, No. 2		Section - Inverted Angle (AR) <i>Al or Nb Treated</i>	AH 32/36	18mm	CC
		Section - Angle (AR)	A	16mm	CC
			AH 32/36	16mm	CC
		<i>(Al+Nb) Treated</i>			
Korea Steel Shapes Co. Ltd. - Chilseo Works		Slab/Billet	A	220mm	CC
			AH 32/36*	220mm	CC
		<i>*V Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
Korea Steel Shapes Co., Ltd., Noksan Works		Shape (AR)	A	15mm (Angle/Channe	CC*
		<i>*Billets are to be from the same ABS approved source used during qualification.</i>			
			A	65mm (Round Bar)	CC*
		<i>*Billets are to be from the same ABS approved source used during qualification.</i>			
			A	30mm (Flat Bar)	CC*
		<i>*Billets are to be from the same ABS approved source used during qualification.</i>			
Korea Steel Shapes Co., Ltd., Sasang Works			AH32/36	15mm (Angle/Channe	CC*
		<i>*Al Treated. Billets are to be from the same ABS approved source used during qualification.</i>			
			AH32/36	30mm (Flat Bar)	CC*
		<i>*Al Treated. Billets are to be from the same ABS approved source used during qualification.</i>			
		Shape (AR)	A	6mm (Angle)	CC*
		<i>*Billets are to be from the same ABS approved source used during qualification.</i>			
			A	12mm (Flat Bar)	CC*
	<i>*Billets are to be from the same ABS approved source used during qualification.</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>	
<u>SOUTH KOREA</u>						
POSCO No. 3 Hot Rolling Mill, Gwangyang Works		Shape (AR)	A	36mm (Round Bar)	CC*	
		<i>*Billets are to be from the same ABS approved source used during qualification.</i>				
		Coil Plate (AR)	A, B, D	22mm (6mm min)	CC	
		<i>(Al+Nb) Treated</i>				
			AH32, DH32	12mm (6mm min)	CC	
		<i>(Al+Nb) Treated</i>				
			AH36, DH36	12mm (6mm min)	CC	
		<i>(Al+Nb) Treated</i>				
			Plates(AR)	A,B Z35*	70mm	CC
		<i>*Al Treated</i>				
			AH,DH32/36 Z35*	20mm	CC	
	<i>*(Al+Nb+V) Treated</i>					
			D Z35*	35mm	CC	
	<i>*Al Treated</i>					
		Plates(CR)	AH,DH32/36 Z35*	35mm	CC	
	<i>*(Al+Nb+V+Ti) Treated</i>					
		Plates(TMCP)	A,B,D,E Z35*	100mm	CC	
	<i>*(Al+Nb+Ti) Treated</i>					

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
		Plates(TMCP) <i>*(Al+Nb+Ti) Treated</i>	AH,DH ,EH32/36 Z35*	100mm	CC
			AH,DH ,EH40 Z35*	90mm	CC
		Slab <i>Al Treated</i>	A, B	250 mm	CC
			AH32, DH32	250 mm	CC
			AH36, DH36	250 mm	CC
			<i>(Al+Nb+V+Ti) Treated</i>		
POSCO Pohang Works No. 1 Steel Mill		Plate(TMCP)	AH,DH, EH32/36	20mm	CC
			AH,DH, EH32/36 Z35	20mm	CC
		Slab <i>*Al Treated</i>	A,B,D,E*	300mm	CC
			AH,DH,EH 32/36/40*	300mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
POSCO Pohang Works No. 2 Hot Rolling Mill		Plate from Coil(AR) <i>*Al Treated</i>	A,B,D*	22mm (6mm min.)	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
POSCO Pohang Works No. 2 Steel Mill		Plate from Coil(AR)*	A**	22mm	CC
		<i>*Coil Supplier: POSCO Pohang Works No. 2. **Al Treated</i>			
			AH32/36**	20mm	CC
		<i>*Coil Supplier: POSCO Pohang Works No. 2. **Al Treated</i>			
		Plate from Coil(TMCP)	AH,DH32/36	22mm (6mm min)	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	16mm (14mm min.)	CC
		<i>*Nb Treated</i>			
		Plates (TMCP)	AH,DH,EH 32/36/40*	100mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		AH,DH,EH47*	80mm	CC	
	<i>*(Al+Nb+Ti) Treated</i>				
		VH32-055*	50mm	CC	
	<i>*(Al+Nb+Ti) Treated</i>				
	Plates (TMCP+AC)	A,B,D,E Z35*	83mm	CC	
	<i>*Al Treated</i>				
		A,B,D,E*	83mm	CC	
	<i>*Al Treated</i>				

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
		Plates (TMCP+AC) <i>*(Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	83mm	CC
			AH,DH, EH32/36*	83mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			EH36, EH40*	90mm	CC
		<i>*Al Treated</i>			
			V-060, VH-060*	50mm	CC
		<i>*Al Treated</i>			
		Plates(CR&N) <i>*Al Treated</i>	A,B,D,E Z35*	100mm	CC
			A,B,D,E*	100mm	CC
		<i>*Al Treated</i>			
		Plates(CR) <i>*(Al+V+Ti) Treated</i>	AH32/36 Z35*	50mm	CC
			DH32/36 Z35*	35mm	CC
		<i>(Al+V+Ti) Treated</i>			
		Plates(N) <i>*Al, (Al+V), (Al+V+Nb), (Al+Nb+Ti) Treated</i>	A,B,D,E Z35*	83mm	CC
			A,B,D,E*	83mm	CC
		<i>*Al, (Al+V), (Al+V+Nb), (Al+Nb+Ti) Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
POSCO Pohang Works No. 3 Steel Mill		Plates(N) <i>*Al, (Al+V), (Al+V+Nb), (Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	83mm	CC
			AH,DH, EH32/36*	83mm	CC
			<i>*Al, (Al+V), (Al+V+Nb), (Al+Nb+Ti) Treated</i>		
		Slabs <i>*Al Treated</i>	A,B,D,E*	300mm	CC
			AH,DH,EH 32/36/40*	300mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
		Plates (TMCP) <i>*(Al+Nb+Ti) Treated</i>	AH,DH,EH47*	80mm	CC
			V-060*	35mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			VH-060*	50mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
			VH32-055*	50mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
		Plates (TMCP+AC) <i>*Al Treated</i>	A,B,D,E	83mm	CC
			A,B,D,E Z35*	83mm	CC
		<i>*Al Treated</i>			

***** - ABS QUALITY ASSURANCE PROGRAM**

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AMERICAN BUREAU OF SHIPPING
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COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>SOUTH KOREA</u>					
		Plates (TMCP+AC) <i>*(Al+Nb+Ti) Treated</i>	AH,DH, EH32/36 Z35*	83mm	CC
			AH,DH, EH32/36*	83mm	CC
			<i>*(Al+Nb+Ti) Treated</i>		
			EH36*	100mm	CC
		<i>*Al Treated</i>			
			EH36, EH40*	90mm	CC
		<i>*Al Treated</i>			
		Plates(CR&N) <i>*Al Treated</i>	A,B,D,E	100mm	CC
			A,B,D,E Z35*	100mm	CC
		<i>*Al Treated</i>			
		Slab <i>*Al Treated</i>	A,B,D,E*	300mm	CC
			AH,DH,EH 32/36/40*	300mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
SeAH Besteel Corporation- Gunsan Works		Billet <i>*Al Treated</i>	AH,DH,EH 32/36/40*	180mm x 180mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

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COUNTRY

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<u>SOUTH KOREA</u>					
		Rolled Bar for Anchor Chain <i>*Al Treated</i>	U3*	160mm	CC
		Rolled Bar for Mooring Chain <i>*Al Treated</i>	R4S	146mm	CC
			R5	140mm	CC
		<i>*Al Treated</i>			
<u>SPAIN</u>					
Arcelormittal Factoria De Gijon Spain		Plates(AR)	A	80mm	CC
			AH32/36	12mm	CC
			B	25mm	CC
		Plates(CR)	AH,DH32/36	25mm	CC
			B	25mm	CC
			D	20mm	CC
		Plates(N)	A,B,D,E	80mm	CC
			AH,DH, EH32/36	80mm	CC
		Plates(TMCP)	AH,DH,EH, FH32/36/40	25mm	CC
	Gerdau Aceros Especiales Europa, S.L., Vizcaya		Rolled Bar for Mooring Chain <i>*(Al+V) Treated</i>	R3, R3S, R4, R4S, R5*	150mm

***** - ABS QUALITY ASSURANCE PROGRAM**

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<u>SPAIN</u>					
Laminados Losal, S.A., Guernica		Bulb Flats(AR) <i>*Al Treated</i>	A*	10mm	IC & CC
			AH,DH32/36*	10mm	IC & CC
<u>SWEDEN</u>					
Outokumpu Stainless AB		Plate	304/304L 316/316L	50mm	CC
			UNS S31803 UNS S32205	50mm	CC
Ovako Bar AB, Boxholm		Bar(AR) <i>*Al Treated</i>	A,B*	68mm	CC
		Bars & Shapes(AR) <i>*Al / (Al+V) Treated</i>	AH32/36*	51mm	CC
			D*	35mm	CC
				DH32/36*	35mm
Ovako Bar AB, Smedjebacken		Shapes(AR) <i>*Al Treated</i>	A,B*	51mm	CC
		Bar(AR) <i>*Al Treated</i>	A,B*	68mm	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

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		<u>SWEDEN</u>			
		Bars & Shapes(AR) <i>*Al / (Al+V) Treated</i>	AH32/36*	51mm	CC
			D*	35mm	CC
		<i>*Al Treated</i>			
			DH32/36*	35mm	CC
		<i>*Al / (Al+V) Treated</i>			
		Shapes(AR) <i>*Al Treated</i>	A,B*	51mm	CC
*** SSAB Oxelosund AB, Oxelosund Works		Plates (TMCP+AC) <i>*(Al+Nb) Treated</i>	AH,DH,EH40*	35mm	CC
			AH32/36*	65mm	CC
		<i>*(Al+Nb) Treated</i>			
			DH,EH32/36*	50mm	CC
		<i>*(Al+Nb) Treated</i>			
		Plates(AR) <i>*Al Treated</i>	A,B*	50mm	CC
			AH32/36*	50mm	CC
		<i>*(Al+V+Ti) Treated</i>			

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SWEDEN

		Plates(AR) <i>*Al Treated</i>	D*	35mm	CC
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			DH32/36*	35mm	CC
		<i>*Al Treated</i>			

		Plates(CR)	AH,DH, EH32/36*	51mm	CC
		<i>*(Al+V+Ti) Treated</i>			

		Plates(N) <i>*Al Treated</i>	A,B,D,E*	51mm	CC
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			AH,DH, EH32/36*	51mm	CC
		<i>*(Al+Nb) Treated</i>			

		Plates(TMCP) <i>*(Al+Nb) Treated</i>	AH,DH, EH32/36*	15mm	CC
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THAILAND

*** LPN Plate Mill Co., Ltd.,
Samutprakarn

		Plates(AR) <i>Slabs from Nippon Steel Corp. *Al Treated</i>	A*	30mm	CC
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			A*	51mm	CC
		<i>Slab Source: ABS Approved Steel Mills Only *Al Treated</i>			

		Plates(CR) <i>Slabs Source - Hong Fa Steel Plant, Zhangjiagang, China</i>	AH,DH32/36	40mm	CC
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<u>THAILAND</u>					
		Plates(CR)	AH,DH32/36	40mm	CC
		<i>Slabs Source - Companhia Siderurgica De Tubarao (CST), Brazil (ABS Approved Source)</i>			
			AH,DH32/36*	25mm	CC
		<i>Slabs Source - Nippon Steel Corp. *(Al+Nb) Treated</i>			
		Plates(TMCP)	EH32/36	40mm	-
		<i>Slabs from ABS approved source CST, Brazil</i>			
Sahaviriya Plate Mill Co., Ltd.		Plates (AR)*	A, B**	32mm	CC
		<i>*Slabs from ABS approved source. - Blue Scope Steel, Australia. **Al Treated</i>			
*** Siam Yamato Steel Co., Ltd., Rayong		Shapes(AR)*	A,B,D**	32mm	CC
		<i>*Sections. **Al Treated</i>			
			AH,32/36**	32mm	CC
		<i>*Sections. **Al Treated</i>			
			DH,32/36**	25mm	CC
		<i>*Sections. **Al Treated</i>			
		Shapes(CR)*	A,B,D,E**	32mm	CC
		<i>*Sections. **Al Treated</i>			
			AH,DH,EH 32/36/40**	32mm	CC
		<i>*Sections. **(Al+V) Treated</i>			
<u>TURKEY</u>					
Eregli Demir ve Celik Fabrikalari T.A.S.		Coil Plates(N)	AH, DH 32/36	15mm (8mm min)	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

NOTES

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AH,DH,EH - H32 and H36, unless indicated otherwise
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**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
<u>TURKEY</u>					
Iskenderun Demir Ve Celik Fabrikalari A.S.		Plate From Coil (N) <i>*Al Treated</i>	A,B,D,E*	15mm	CC
			AH,DH,EH, FH32/36*	15mm	CC
		<i>*(Al+Nb) Treated</i>			
		Plate(N) <i>*Al Treated</i>	A,B,D,E*	60mm	CC
			AH,DH,EH, FH32/36*	60mm	CC
		<i>*(Al+Nb) Treated</i>			
		Plates(N)	AH,DH 32/36	50mm (12mm min)	CC
		Coil Plates(TMCP)	AH,DH,EH,FH 32/36/40*	14mm	CC
		<i>*(Al+Nb+Ti) Treated</i>			
Özkan Demir Celik Sanayi A.S.		Shape (AR)	A,B	28 mm	CC
			A,B*	14 mm	CC
		<i>*Billet Source : Colakoglu Metalurji A.S., Turkey</i>			
			AH/DH 32/36*	25 mm	CC
		<i>*(Al+V) Treated</i>			
			AH/DH/EH 32/36*	10 mm	CC
		<i>*(Al+V) Treated, Billet Source : Iskenderun Demir Ve Celik A.S., Turkey.</i>			

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<u>TURKEY</u>					
		Shape (AR)	AH32/36*	14 mm	CC
		<i>*(Al+V) Treated, Billet Source : Colakoglu Metalurji A.S., Turkey.</i>			
		Shape (TMCP)	AH/DH/EH 32/36*	28 mm	CC
		<i>*(Al+V) Treated</i>			
<u>U.S.A.</u>					
Acme Steel Company Riverdale, Illinois		Billets	A, AH	...	CC
*** ArcelorMittal Burns Harbor Plate, IN		Coil Plate(AR)	A*	12.5mm (0.5")	CC
		<i>*Al Treated</i>			
		Plates(CR)	AH,DH32/36*	50mm (2")	CC
		<i>*(Al+V) / (Al+Nb+V) Treated</i>			
		Plates(N)	A,B,D,E*	100mm (4")	CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36 Z35*	75mm (3")	CC
		<i>*(Al+Nb) / (Al+Nb+V) Treated</i>			
			AH,DH, EH32/36*	100mm (4")	CC
		<i>*(Al+Nb+V) Treated</i>			
		Plates(N)*	EH36**	40mm (1.574")	CC
		<i>*Slab Source: ArcelorMittal Steel Indiana Harbor East. **Al Treated</i>			

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		<u>U.S.A.</u>			
		Plates(Q&T)	AH,DH, EH32/36*	100mm (4")	CC
		<i>*(Al+Nb+V) Treated</i>			
		Plates(TMCP)	EH36*	40mm (1.574")	CC
		<i>*(Al+Nb) Treated</i>			
*** ArcelorMittal USA - Plate LLC, Conshohocken, PA		Plate(AR)*	A**	50mm (2")	CC
		<i>*Slab Source: ArcelorMittal USA - Plate LLC, Coatesville, PA.</i>			
		<i>**Al Treated</i>			
		Plate(N)*	A,B,D,E**	50mm (2")	IC / CC
		<i>*Slab Source: ArcelorMittal USA - Plate LLC, Coatesville, PA.</i>			
		<i>**Al Treated</i>			
			AH,DH,EH 32/36**	50mm (2")	IC / CC
		<i>*Slab Source: ArcelorMittal USA - Plate LLC, Coatesville, PA.</i>			
		<i>** (Al+Nb) Treated</i>			
*** ArcelorMittal USA - Plate LLC, Coatesville, PA		Plate(AR)	A*	50mm (2")	CC
		<i>*Al Treated</i>			
		Plate(N)	A,B,D,E*	100mm (4")	IC / CC
		<i>*Al Treated</i>			
			AH,DH, EH32/36*	100mm (4")	IC / CC
		<i>*(Al+Nb) / (Al+Nb+V) Treated</i>			
		Plate(Q&T)	AQ,DQ,EQ 43/47/51*	50mm (2")	IC / CC
		<i>*(Al+V) / (Al+Nb+V) Treated</i>			

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		<u>U.S.A.</u>			
		Plate(Q&T)	AQ,DQ,EQ 63/70*	165mm (6.5")	IC
			<i>*(Al+V) / (Al+Nb+V) Treated</i>		
*** ArcelorMittal, Burns Harbor, IN (West Plate Mill)		Plate	A	38 mm (1.5")	CC
*** ArcelorMittal, LaPlace, LA (Bayou Steel)		Shapes(AR)	A,B	25mm (1")	CC
			AH32/36*	19mm (0.75")	CC
			<i>*Nb / V Treated</i>		
*** Arkansas Steel Associates, L.L.C.- Newport, Arkansas		Billet	A	225mm x 400mm	CC
			AH32, AH36 *	225mm x 400mm	CC
			<i>* V Treated</i>		
*** CMC Steel Alabama, AL		Shapes(AR)	A	50mm (2")	CC
			A,B	25mm (1")	CC
			AH32/36*	25mm (1")	CC
			<i>*V Treated</i>		
*** CMC Steel South Carolina, Cayce-West Columbia, SC		Shapes	A, B	50mm	CC
			AH32/36	50mm	CC
*** CMC Steel Texas, Seguin		Shapes(AR)	A	50mm (2")	CC
Evraz Claymont Steel, DE		Plate(AR)	A	75mm (3")	CC
			A,B	38mm (1.5")	CC

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		<u>U.S.A.</u>			
		Plate(AR) <i>*Al Treated</i>	A,B,D*	35mm (1.375")	CC
			AH32/36*	35mm (1.375")	CC
		<i>*Al / V Treated</i>			
		Plate(CR) <i>*V Treated</i>	AH,DH32/36*	38mm (1.5")	CC
		Plate(N) <i>*V Treated</i>	AH,DH, EH32/36*	25mm (1")	CC
*** Evraz Inc., NA, Evraz Oregon Steel, Portland, OR		Coils (HR & AcC) <i>* Slab Source: JSC NTMK, Tagil, Russia</i>	A, B, D	9.5mm	CC*, Pressure C
		Plate (CR) <i>* Slab Source: JSC NTMK, Tagil, Russia</i>	A	95mm	CC*, Pressure C
			AH32/36/40	38mm	CC*, Pressure C
		<i>* Slab Source: JSC NTMK, Tagil, Russia</i>			
		Plate from Coil (AR)	A, B, D	0.5" (12.5mm)	CC
		Plate from Coil (HR & AcC) <i>* Slab Source: JSC NTMK, Tagil, Russia (ABS approved source,</i>	A, B, D	12.7mm (0.5")	CC*, Pressure C
		Plates (AR)	A, B	50mm	CC
			A, B	3.25" (81.25mm)	CC

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		<u>U.S.A.</u>			
		Plates (AR)	AZ, BZ35	50mm	CC
		Plates(AR)	A,B	4" (100mm)	IC
			AH36	60mm	IC*, Pressure C
		<i>*Slabs from ABS approved source</i>			
		Plates(CR)	AH, DH 32/36	2" (50mm)	CC
			D	2" (50mm)	CC
		Plates(N)	A	5" (125mm)	IC
			A, B, D	4" (100mm)	IC
			AH, DH, EH 32/36	2-5/8"	CC
			E	2" (50mm)	IC
		Plates(TMCP)	AH, DH, EH 32/36	1" (25mm)	CC
			E	1" (25mm)	CC
*** Gerdau Ameristeel Calvert City, KY (Ex-North Star Steel)		Shapes (AR)*	A	25mm (1")	CC
		<i>Billets are to be from the same ABS approved sources used during qualification.</i>			
			AH 32/36	19mm (0.75")	CC
		<i>Billets are to be from the same ABS approved sources used during qualification. V Treated.</i>			
Gerdau Ameristeel Charlotte NC		Shapes*(AR)	A	12.5mm (0.5")	CC
		<i>*Rounds, Flats, Squares, Channels, Angles</i>			
*** Gerdau Ameristeel, Cartersville, GA Steel Mill		Shapes (AR)	A	25 mm (1")	CC

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		<u>U.S.A.</u>			
		Shapes (AR) <i>V Treated</i>	AH36	25 mm (1")	CC
*** Gerdau Long Steel North America - Jackson Mill, TN		Billets <i>V Treated</i>	AH32/36	...	CC
		Shapes & Flatbars(AR)	A	12.5mm (0.5")	CC
*** JSW Steel (USA) Inc., Baytown TX		Plates(AR)*	A,B**	75mm (3")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **Al treated</i>	
			AH,DH32/36**	12.5mm (0.5")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **(Al+V) treated</i>	
			AH40**	12.5mm (0.5")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **(Al+V) treated</i>	
			D**	35mm (1.375")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **Al treated</i>	
		Plates(CR)*	A,B,D**	75mm (3")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **Al treated</i>	
			AH,DH32/36**	50mm (2")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **(Al+V) treated</i>	
		Plates(N)*	A,B,D,E**	50mm (2")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **Al treated</i>	
			AH,DH,EH32/3	63mm (2.5")	CC
				<i>*Slab Source: Azovstal Iron & Steel Works, **(Al+V+Nb) treated</i>	

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<u>U.S.A.</u>					
*** Kentucky Electric Steel, Ashland, KY		Shapes(AR) <i>*Nb Treated</i>	A,B*	51mm (2")	CC
*** LeTourneau Technologies Inc. Steel Products, Longview TX		Plates(N) <i>*(Al+V) / (Al+V+Nb) Treated</i>	AH,DH,EH32/3	50mm (2")	CC
*** Nucor Bar Mill Group, Plymouth, UT		Shapes(AR)	A	25mm (1")	CC
			AH32/36*	25mm (1")	CC
<i>*(Al+V) Treated</i>					
*** Nucor Steel - Darlington, SC		Shapes(AR)*	A	12.5mm (0.5")	CC
			AH32/36**	12.5mm (0.5")	CC
<i>*Angle, Channel, Flat, Round, **V Treated</i>					
*** Nucor Steel - Hertford, Winton, NC		Plates(AR)	A,B	50mm (2")	CC
			AH,DH32/36	38mm (1.5")	CC
		Plates(CR)	AH,DH32/36	38mm (1.5")	CC
*** Nucor Steel Berkely, Huger, SC		Sections (Channel, Beam)	A	12.5mm (0.5")	CC
			AH32/36*	12.5mm (0.5")	CC
	<i>*Nb Treated</i>				
*** Nucor Steel Jewett, TX		Flat Bars(AR)	A	25mm (1")	CC
		Shapes(AR)	A	25mm (1")	CC
			AH32/36	12.5mm (0.5")	CC

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<u>U.S.A.</u>						
*** Nucor Steel Tuscaloosa Inc., Tuscaloosa, AL (EX-Corus)		Plate from Coil	AH32/36	20mm	CC	
			D	12.5mm (0.5")	CC	
		Plate from Coil (AR)	DH32/36	20mm	CC	
		Plate from Coil(AR)	A,B*	25.4mm	CC	
		<i>*Al treated</i>				
		Plates	A,B	50mm (2")	CC	
			AH,DH32/36*	38 mm (1.5")	CC	
<i>*(Al+V+Nb+Ti) Treated</i>						
*** Nucor Steel, Seattle, WA		Shapes(AR)*	A	25mm (1")	CC	
		<i>*Flat Bars, Channels, Angles</i>				
*** Nucor-Yamato Blytheville, AR		Shapes(AR)	A,B	50mm (2")	CC	
			AH32/36	50mm (2")	CC	
		Shapes(CR)	A,B	72mm (2.845")	CC	
			AH32/36	72mm (2.845")	CC	
*** Republic Steel, Lorain, OH		Round Bar (HR, Q&T)	AH36(S)*	50mm (2") 150mm (6")	CC	
		<i>*(S) - Special Approval, *Al Treated</i>				

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		<u>U.S.A.</u>			
		Round Bar (HR, Q&T) <i>*Al Treated</i>	AH36*	50mm (2")	CC
		Round Bar (HR, QT, AR)	R4	124mm	CC
		Round Bar(HR, AR, Q&T)	R3S	124mm	CC
*** Republic Steel., Blasdell, NY		Round Bar (AR, Q&T)	R4 Bar Stock	50mm (2")	CC*
		<i>*Steel casting at Republic Engineered Products, Canton, OH (ABS Approved Facility)</i>			
		Round Bar (HR, Q&T)	AH36(S)*	50mm (2") 150mm (6")	CC
		<i>*(S) - Special Approval, *Al Treated</i>			
			AH36*	50mm (2")	CC
		<i>*Al Treated</i>			
*** Republic Steel., Canton, OH		Round Bar (HR, Q&T)	AH36	50mm (2")	CC
		<i>*Al Treated</i>			
			AH36(S)*	50mm (2") 150mm (6")	CC
		<i>*(S) - Special Approval, *Al Treated</i>			
			R3S	95mm (3.75")	CC
		Round Bar (HR, Q&T) (AR)	R3	80mm (3.125")	CC

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		<u>U.S.A.</u>			
		Round Bar (HR, Q&T, AR)* <i>*Al Treated</i>	R4	123mm	CC
*** RG Steel, LLC, Sparrows Point, MD		Coil Plates(AR)	A	12.7mm (0.5")	CC
		Slabs	A, B, D, E	305mm (12")	CC
			AH32/36, DH32/36, EH32/36	305mm (12")	CC
*** SSAB Alabama Inc., Axis, AL		Plate from Coil(AR) <i>*(Al+Ti) Treated</i>	A,B*	12.7mm (0.5")	CC
		Plates(AR) <i>*Al, (Al+V) Treated</i>	A*	75mm	CC
			A,B*	50mm	CC
		<i>*(Al+Ti), (Al+V) Treated</i>			
			A,B*	38mm	CC
		<i>*Al Treated</i>			
			A,B,*	19mm (0.75")	CC
		<i>*(Al+Ti) Treated</i>			
			A,B,D*	19mm (0.75")	CC
		<i>*(Al+Ti) Treated</i>			
		Plates(CR) <i>*(Al+V) Treated</i>	A,B,D*	50mm	CC

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		<u>U.S.A.</u>			
		Plates(CR) <i>*(Al+V) Treated</i>	AH,DH32/36*	50mm	CC
		Plates(N) <i>*(Al+Nb) Treated</i>	AH,DH, EH32/36 Z35*	57mm	CC
		<i>*(Al+V) Treated</i>	AH,DH, EH32/36*	50mm	CC
		Plates(TMCP)* <i>*(Al+V) Treated</i>	AH,DH, EH32/36	19mm	CC
*** SSAB Iowa Inc., Muscatine, Iowa		Plate from coil(AR)** <i>*Al Treated</i>	A* <i>**Uncoiling Facility; SSAB Minnesota</i>	13mm (0.5")	CC
		Plates(AR) <i>*(Al+Ti) Treated</i>	A,B*	38mm (1.5")	CC
		<i>*(Al+Ti) Treated</i>	A,B,D*	35mm (1.375")	CC
		<i>*(Al+Ti) Treated</i>	AH,DH32/36*	25mm (1")	CC
		Plates(CR) <i>*(Al+Ti) Treated</i>	A,B,D*	51mm (2")	CC
		<i>*(Al+V) Treated</i>	AH,DH32/36*	38mm (1.5")	CC

***** - ABS QUALITY ASSURANCE PROGRAM**

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**AMERICAN BUREAU OF SHIPPING
25/Mar/2013 APPROVED STEEL MILLS**

COUNTRY

<u>NAME AND LOCATION</u>	<u>WEBSITE EMAIL</u>	<u>PRODUCT (PROCESSING)</u>	<u>ABS GRADE</u>	<u>MAXIMUM THICKNESS</u>	<u>POURING PRACTICE</u>
		<u>U.S.A.</u>			
		Plates(TMCP) <i>*(Al+V+Nb) Treated</i>	AH,DH, EH32/36*	25mm (1")	CC
*** SSAB Texas Inc.,Houston, TX		Plate from Coil(AR) <i>*(Al+Ti) Treated</i>	A,B*	12.7mm (0.5")	CC
*** Steel Dynamics- Columbia City Plant, IN		Sections - Wide Flange Beam, H-Piling (AR) <i>V Treated</i>	A,B	35mm (1.38")	CC
			AH32, AH36	35mm (1.38")	CC
		<i>V Treated</i>			
*** Steel Dynamics- Engineered Bar Products Division, Indiana		Round Bar	RQ3	123 mm	CC
			RQ3S	123 mm	CC
*** Steel Dynamics- Roanoke Bar Division, VA		Shapes (Round Bar, Flat Bar, Angle, Channel) (AR)	A,B	38mm (1.5")	CC
			AH32/36*	38mm (1.5")	CC
		<i>*V Treated</i>			
*** Steel of West Virginia, WV		Billets	A	152mm x 248mm	CC

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		<u>U.S.A.</u>			
		Billets	AH32/36*	152mm x 248mm	CC
		<i>*V Treated</i>			
		Section (I-Beam) (AR)	A	10mm (0.4")	CC
			AH32/36*	10mm (0.4")	CC
		<i>*V Treated</i>			
		<u>UKRAINE</u>			
Alchevsk Iron & Steel Works, Alchevsk		Plates(AR)	A	20mm	IC
			A,B	14mm	IC
			A,B*	51mm	CC
		<i>*Al Treated</i>			
			A,B,D*	35mm	CC
		<i>*Al Treated</i>			
			AH,DH32/36*	14mm	CC
		<i>*(Al+Nb+V) Treated</i>			
		Plates(N)	A	51mm	IC
			A,B,D	45mm	IC
		A,B,D,E	25mm	IC	
		A,B,D,E*	40mm	CC	
	<i>*Al Treated</i>				
			AH,DH, EH32/36	50mm	IC

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<u>UKRAINE</u>					
Azovstal Iron and Steel Works, Mariupol		Plates(N) <i>*(Al+Nb+V) Treated</i>	AH,DH, EH32/36*	51mm	CC
		Slab	A,B,D,E	300mm	CC
			AH,DH, EH32/36	300mm	CC
		Plates(AR) <i>*Al treated</i>	A,B*	51mm	CC
		Plates(CR) <i>*(Al+Nb) treated</i>	A,B,D*	20mm	CC
			AH,DH32/36	20mm	CC
		<i>*Al treated</i>			
		Plates(N) <i>*Al treated</i>	A,B,D,E*	40mm	CC
			AH,DH, EH32/36 Z35	51mm	CC
		<i>*(Al+Nb) / (Al+Nb+V) treated</i>			
Donetsk Steel Mill, Donetsk Enakievo Iron & Steel Works		Slabs <i>*Al treated</i>	A,B,D,E	270mm	CC
			AH,DH,EH 32/36*	270mm	CC
		<i>*Al treated</i>			
		Plates(AR)	A, B	20mm	CC
	Bars(AR)	A, B	11mm	IC	

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<u>UKRAINE</u>					
Ilyich Iron & Steel Works, Mariupol		Bars(AR)	AH, DH32	11mm	IC
		Plates(AR)	A,B	50mm	CC
		Plates(CR)	A,B,D(Z35)	50mm	CC
		Plates(N)	A,B,D(Z35)	80mm	CC
		Plates(TMCP)	A,B,D,E(Z35)	50mm	CC
Kramatorsk Iron & Steel Works		Shapes(AR)* <i>* Bulb Flats</i>	A, B, D	15mm	CC
			AH/DH32	15mm	CC
		<i>* Bulb Flats</i>			
<u>UNITED KINGDOM</u>					
Sahaviriya Steel Industries UK Limited		Slabs <i>*Al Treated</i>	A,B*	225mm	CC
*** Tata Steel UK Ltd, Long Products Europe - Dalzell, UK		Plates(AR) <i>*Al Treated</i>	A,B	51mm	CC
		Plates(CR) <i>*(Al+Nb) Treated</i>	AH,DH32/36*	51mm	CC
			D*	51mm	CC
		<i>*Al Treated</i>			
	Plates(N) <i>*Al / (Al+Nb) Treated</i>	A,B,D,E*	100mm	CC	

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<u>UNITED KINGDOM</u>					
*** Tata Steel UK Ltd, Long Products Europe - Scunthorpe, UK		Plates(N) <i>*(Al+Nb) / (Al+Nb+Ti) Treated</i>	AH,DH, EH32/36*	51mm	CC
		Plates(Q&T) <i>*(Al+V) Treated</i>	AQ,DQ, EQ43/47 Z35*	51mm	CC
			AQ,DQ,EQ70 Z35*	60mm	CC
			<i>*(Al+V) Treated</i>		
		Plates(TMCP) <i>*(Al+Nb) / (Al+Nb+Ti) Treated</i>	AH,DH, EH32/36*	50mm	CC
		Plates(AR) <i>*Al Treated</i>	A,B	51mm	CC
			D	35mm	CC
			<i>*Al Treated</i>		
		Plates(CR) <i>*(Al+Nb) Treated</i>	AH,DH32/36 Z35*	51mm	CC
			EH32/36 Z35*	25mm	CC
		<i>*(Al+Nb) Treated</i>			
	Plates(N) <i>*Al Treated</i>	A,B,D,E*	60mm	CC	

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<u>UNITED KINGDOM</u>					
*** Tata Steel UK Ltd, Long Products Europe - Skinningrove, UK		Plates(N) <i>*(Al+Nb) Treated</i>	AH,DH, EH32 Z35*	60mm	CC
			AH,DH, EH32/36 Z35*	51mm	CC
			<i>*(Al+Nb) Treated</i>		
		Plates(TMCP) <i>*(Al+Nb) Treated</i>	AH,DH, EH32/36 Z35*	51mm	CC
		Sections(AR) <i>*Al Treated</i>	A,B*	25mm	CC
			AH32/36*	25mm	CC
		<i>*(Al+V) / (Al+V+Nb) Treated</i>			
		Shapes(AR)* <i>Billet Source: Corus UK Ltd., Corus Long Products Buisness - Scunthorpe. **Al Treated</i>	A,B,D,**	20mm	CC
			AH,DH32/36**	20mm	CC
			<i>Billet Source: Corus UK Ltd., Corus Long Products Buisness - Scunthorpe. **Al / V Treated</i>		

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