



TEL. (66) -2716-1600 EXT. 5801-5811, (66) -2716-1575 FAX. (66) -2716-1579



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BANGKOK STEEL WIRE CO.,LTD.

24/10 MOO 6 BANGSAOTHONG, BANGSAOTHONG MINOR DISTRICT,
SAMUTPRAKARN 10540, THAILAND.

TEL. (66)-2312-8216-19, (66)-2740-0835-36 FAX. (66)-2312-8220

MILL TEST CERTIFICATE

Customer :

Description Of Goods : 7-WIRE STRAND FOR PRESTRESSED CONCRETE

(15.2-250kN-Super Grade Low Relaxation Strand AS 1311-1987)

Nominal Diameter : 15.2 mm.

Specification : AS 1311-1987

Certificate No : 019

Page No : 1/1

Date : May 26, 2007

Invoice No :

Letter Of Credit No :

Issuing Bank :



No.	Coil No.	Diameter (mm.)	Mass (g/m.)	Section Area (mm. ²)	Tensile Load (kN.)	0.2% Yield Load (kN.)	Elongation (%)	Young's Modulus (kN/mm. ²)	Length Approx (m.)	Weight Coil (Kg.)
1	199-075-508-11	15.32	1,112.0515	142.5476	266.85	246.00	5.13%	201.6870	2,731	3,037
2	199-075-508-12	15.32	1,112.0515	142.5476	266.85	246.00	5.13%	201.6870	2,810	3,125
3	199-076-503-11	15.30	1,114.8050	141.5952	268.50	245.00	5.43%	201.2780	2,783	3,102
4	199-076-503-12	15.30	1,114.8050	141.5952	268.50	245.00	5.43%	201.2780	2,821	3,145
5	199-074-502-11	15.32	1,112.0126	141.5162	268.51	246.00	5.31%	203.1570	2,720	3,025
6	199-074-502-12	15.32	1,112.0126	141.5162	268.51	246.00	5.31%	203.1570	2,811	3,126
Min.		15.30	1,112.0126	141.5162	266.85	245.00	5.13%	201.2780		6
Max.		15.32	1,114.8050	142.5476	268.51	246.00	5.43%	203.1570	Grand total	18,560
Avg.		15.31	1,112.9564	141.8863	267.95	245.67	5.29%	202.0407	-	-
Lower Spec Limit.		14.80	1,102.5000	140.1400	250.00	212.50	3.50%	195.0000	AS 1311-1987	
Upper Spec Limit.		15.60	1,170.0000	148.7200	-	-	-	215.0000	TIS. 420-2540(1997)	
Comment : Left Hand Lay					Approve		Check		Issue	
										

QA-FB-06, แก้ไขครั้งที่ : 6, วันที่อนุมัติใช้ : 02 พฤษภาคม 2549

SALES OFFICE : 31ST FLOOR ITALTHAI TOWER, 2034/132-161 NEW PETCHBURI RD., BANGKOK 10320, THAILAND.

TEL. (66) -2716-1600 EXT. 5801-5811, (66) -2716-1575 FAX. (66) -2716-1579



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BANGKOK STEEL WIRE CO.,LTD.

24/10 MOO 6 BANGSAOTHONG, BANGSAOTHONG MINOR DISTRICT,
SAMUTPRAKARN 10540, THAILAND.

TEL. (66)-2312-8216-19, (66)-2740-0835-36 FAX. (66)-2312-8220

MILL TEST CERTIFICATE

Customer :

Description Of Goods : 7-WIRE STRAND FOR PRESTRESSED CONCRETE

(15.2-227kN-Regular Grade Low Relaxation Strand AS 1311-1987)

Nominal Diameter : 15.2 mm.

Specification : AS 1311-1987

Certificate No : 016

Page No : 1/1

Date : May 26, 2007

Invoice No :

Letter Of Credit No :

Issuing Bank :



No.	Coil No.	Diameter (mm.)	Mass (g/m.)	Section Area (mm. ²)	Tensile Load (kN.)	0.2% Yield Load (kN.)	Elongation (%)	Young's Modulus (kN/mm. ²)	Length Approx (m.)	Weight Coil (Kg.)
1	199-075-500-11	15.30	1,103.0007	141.5952	265.35	242.50	5.18%	203.0436	2,302	2,539
2	199-075-500-12	15.30	1,103.0007	141.5952	265.35	242.50	5.18%	203.0436	2,446	2,698
3	199-074-499-11	15.36	1,106.4495	142.3090	266.50	244.00	5.18%	202.0251	2,309	2,555
4	199-074-499-12	15.36	1,106.4495	142.3090	266.50	244.00	5.18%	202.0251	2,438	2,698
5	199-074-495-11	15.32	1,108.6371	142.0709	266.02	244.00	5.20%	202.3637	2,297	2,547
6	199-074-495-12	15.32	1,108.6371	142.0709	266.02	244.00	5.20%	202.3637	2,358	2,614
Min.		15.30	1,103.0007	141.5952	265.35	242.50	5.18%	202.0251		6
Max.		15.36	1,108.6371	142.3090	266.50	244.00	5.20%	203.0436	Grand total	15,651
Avg.		15.33	1,106.0291	141.9917	265.96	243.50	5.19%	202.4775	-	-
Lower Spec Limit.		14.80	1,068.2000	136.2200	227.00	192.95	3.50%	195.0000	AS 1311-1987	
Upper Spec Limit.		15.60	1,133.6000	144.5600	-	-	-	215.0000	TIS. 420-2540(1997)	
Comment : Left Hand Lay					Approve		Check		Issue	
										

QA-FB-06, แก้ไขครั้งที่ : 6, วันที่อนุมัติใช้ : 02 พฤษภาคม 2549

SALES OFFICE : 31ST FLOOR ITALTHAI TOWER, 2034/132-161 NEW PETCHBURI RD., BANGKOK 10320, THAILAND.

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