

SHEET No. :  
INVOICE No. : D20005030025

NAME OF ARTICLE : CHANNELS  
SPECIFICATION : ASTM A36/A572-50  
CONTRACT No. :  
SUPPLIER :  
CUSTOMER :



# QUALITY CERTIFICATE

DONGKUK STEEL MILL CO., LTD

DATE : 2000/5/17

SIZE (in INCH)	HEAT No.	No of B/D	WEIGHT in MT	No of PCS/B/D	CHEMICAL ANALYSIS (%)													MECHANICAL PROPERTIES			REMARKS
					C	Si	Mn	P	S	Cu	Ni	Cr	V	Mo	Nb	Tensile Strength PSI	Yield Point	Elonga- tion %	Bend Test (180°)		
C 10 * 20 40 R	C24040D	14	60.956	12	0.12	0.14	1.04	0.025	0.013	0.24	0.06	0.06	0.020	0.01	Tr	72,954	53,519	26.1	GOOD	* MILL'S FULL NAME WITH ADDRESS : DONGKUK STEEL MILL CO., LTD. 1867 CHANGHEUNGDDONG POHANG CITY KYEONGSAKANGBUKDO KOREA	
C 10 * 20 40 R	C24030D	28	121.912	12	0.12	0.15	1.06	0.029	0.012	0.23	0.07	0.08	0.022	0.01	Tr	73,099	53,519	25.4	GOOD		
C 10 * 20 40 R	C24020D	28	121.912	12	0.12	0.18	1.05	0.024	0.020	0.24	0.06	0.06	0.021	0.01	Tr	73,099	53,519	25.0	GOOD		
C 10 * 20 40 R	C24010D	28	121.912	12	0.11	0.15	0.99	0.028	0.010	0.22	0.06	0.07	0.021	0.01	Tr	75,275	55,840	25.4	GOOD		
C 10 * 20 40 R	C24000D	28	121.912	12	0.12	0.16	1.02	0.026	0.009	0.25	0.06	0.06	0.020	0.01	Tr	74,260	54,099	24.7	GOOD		
C 10 * 20 40 R	C23990D	28	121.912	12	0.12	0.15	1.08	0.021	0.012	0.24	0.06	0.06	0.023	0.01	Tr	73,970	54,080	26.7	GOOD		
C 10 * 20 40 R	C23980D	28	121.912	12	0.11	0.17	1.05	0.025	0.017	0.27	0.06	0.07	0.019	0.01	Tr	73,244	54,825	26.2	GOOD		
C 10 * 20 40 R	C23970D	28	121.912	12	0.10	0.18	1.01	0.025	0.016	0.25	0.07	0.07	0.019	0.01	Tr	72,954	54,534	26.4	GOOD		
C 10 * 20 40 R	C23960D	28	121.912	12	0.10	0.15	1.05	0.027	0.012	0.26	0.06	0.08	0.020	0.01	Tr	74,695	55,260	24.7	GOOD		
C 10 * 20 40 R	C23950D	28	121.912	12	0.10	0.17	1.05	0.026	0.014	0.22	0.07	0.06	0.021	0.01	Tr	74,405	54,244	25.6	GOOD		

V 19403

ORIGINAL

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirement called for the above order.

01 231 228

SURVEYOR TO: \_\_\_\_\_  
LABORATORIO CONTROL DE CALIDAD

SURVEYOR TO: \_\_\_\_\_  
DONGKUK STEEL MILL CO., LTD

CHIEF OF QUALITY CONTROL DEPT

**Atacero**  
CENTROS DE SERVICIO