HPi Verification Services Ltd.
The Manor House, Howbery Park
Wallingford, OX10 8BA
United Kingdom

Particular Material Appraisal Certificate

The Pressure Equipment Directive, 97/23 EC

NAME & ADDRESS OF EQUIPMENT MANUFACTURER		PMA NO.	222-083-PMA-SRP-01TW
Taiwan SRP Heat Exchanger Inc. 9F-3, No. 7, Dunhua South Road, Sec 1, Taipei, Taiwan, 10500		Rev	0
MATERIAL SPECIFICATION Delivery condition Material Group (CR ISO 15608:2000)	ASTM A240 304 Cold Rolled 8.1	Product Dimension Similar Material	Steel Plate 0.6mm th EN 10028-7 / 1.4301 (X2CrNiMo17-12-30)
APPLICATION			
Description of Equipment Drawing / Parts List No Allowable Temperature Range	Plate Heat Exchanger Various -29° C to 425° C	Fluid Group Category Design Code	1 & 2 ≤ IV EN 13445 / PD5500

COMPLIANCE WITH ESSENTIAL SAFETY REQUIREMENTS FOR MATERIALS
(in finished pressure equipment)

PROPERTY	REQUIREMENT	COMPLIANCE
Strength (N/mm^2) Annex 1, 4.1(a)	$R_{e/t}$, $R_{m/20}$, if required, $R_{m/t}$	Re/t = 205 MPa Rm/20 = 515 Mpa
Sufficiently Ductile Annex 1, 4.1(a), Annex 1, 7.5	In steel, >14%	≥40%
Sufficiently Tough Annex 1, 4.1(a), Annex 1, 7.5	e.g. in steel; 27 J at 20 C or lowest operating temp	Not specified in ASTM A240
Not significantly affected by ageing Annex 1, 4.1 (c)	At intended operating temperatures	Aging not significant
Suitable for Intended Processing Annex 1, 4.1(d)	e.g. Welding, forming etc	Suitable for forming and welding
Material Marking Annex 1, 3.1.5	Identifiable to Certificate	Heat No
Type of Certificate Annex 1, 4.3	Cat II, III, IV: EN 10204 - 3.1 cert	EN 10204 3.1
Material Manufacturer's Approval Annex 1, 4.3	QA System (appropriate scope of approval) Independent test (EN 10204, 3.2)	ISO 9001
Others	See test programme	Refer to ASTM A240

Location	Date	Manufacturer	Date	Location	Approved
Taipei	03/09/2013	Taiwan SRP Heat Exchanger Inc.	03/09/2013	Wallingford, UK	T.J. Essuli HPi Verification Services (Notified Body No 1521)

© HPi Verification Services Ltd. 2010

Tel. +44 1491 822818
Fax. +44 700 341 8581
enquiries@hpivs.com
www.hpivs.com