

**ABSA**  
the pressure equipment safety authority  
**STATUTORY DECLARATION**  
**Registration of Fitting**

\* In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

**BENKAN**®

I, RUNGNAPA KAMPIRANON,

QUALITY ASSURANCE SECTION MANAGER

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of THAI BENKAN COMPANY LIMITED

(name of manufacturer)

located at 58 SOI WATKRUNAI(SUKSAWAT70),BANGKRU,PHRAPRADAENG,SAMUTPRAKARN 10130

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- ☒ comply with the requirements of ASMEB16.9; incl4.4.2a/A960;S58 which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- ☐ are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, LRQA as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are category A

In support of this application, the following information, calculations and/or test data are attached:

Company catalogue & Special fittings Reducer/Tee drawing no.ENA4-043toENA4-062 ,Design Proof Test review & records  
, ISO 9001:2008 certificates

DECLARED before me at the Canadian Embassy in the city of Bangkok

this 29th Monday of April, 2015

(print) First Secretary (Management) and Consul  
Première Secrétaire (gestion) et consul

(sign) [Signature]  
(A Commissioner for Oaths)

[Signature]  
(Signature of Applicant)

For Office Use Only

*\* see attached copy of Regulation B.P*

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category A

Registration Number: 0 A 1 7 7 4 6 . 5 2

Date Registered: JUL 07 2015

[Signature] T.M. (ASHLING) DICK  
(For the Administrator/Chief Inspector of Alberta)

Expiry Date: June 12, 2025

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.

TBC - E14-031

10 December 2014

## LIST OF DESIGN PROOF TEST IN ACCORDANCE WITH SECTION 9 OF ASME B16.9 EDITION 1978 TO 2012

| Reprot No.      | Representative test fittings | Performed test date |    |      | Yield strength MPa | Tensile strength MPa | Yield strength to Tensile strength ratio | Actual final test pressure (Pact.) MPa | Calculated burst pressure (P) MPa | Ratio of burst pressure % Pact/P | Used Material        |            |
|-----------------|------------------------------|---------------------|----|------|--------------------|----------------------|------------------------------------------|----------------------------------------|-----------------------------------|----------------------------------|----------------------|------------|
|                 |                              | M                   | D  | Y    |                    |                      |                                          |                                        |                                   |                                  | Grade                | Dimension  |
| P9001           | 90EL WPB 1 STD               | 12                  | 12 | 1988 | 242                | 431                  | 0.56                                     | 120                                    | 87.7                              | 136.8                            | ASTM A106 Gr. B      | 27.2x3.4   |
| P8042-11        | 90EL WPB 4 STD               | 9                   | 19 | 1988 | 324.1              | 464.1                | 0.70                                     | 53.2                                   | 48.7                              | 109.1                            | ASTM A106 Gr. B      | 89.1x6.6   |
| P8042-1         | 90EL WPB 6 STD               | 8                   | 22 | 1988 | 327.5              | 473.7                | 0.69                                     | 42.2                                   | 40.0                              | 105.4                            | ASTM A106 Gr. B      | 127.0x7.8  |
| P8042-2         | 90ES WPB 1 STD               | 8                   | 19 | 1988 | 290                | 531.5                | 0.55                                     | 127.5                                  | 86.0                              | 148.2                            | ASTM A106 Gr. B      | 25.0x3.5   |
| P8402-3         | 90ES WPB 4 STD               | 1                   | 27 | 1988 | 449.1              | 576.6                | 0.78                                     | 53.0                                   | 48.5                              | 109.1                            | ASTM A106 Gr. B      | 76.3x7.0   |
| P8402-4         | 90ES WPB 6 STD               | 8                   | 22 | 1988 | 341.3              | 475.6                | 0.72                                     | 42.7                                   | 32.07                             | 133.0                            | ASTM A106 Gr. B      | 114.3x8.6  |
| TBC - E04 -029  | 90EL WP304/304LS 1 S10S      | 5                   | 28 | 2004 | 217                | 581                  | 0.37                                     | 103                                    | 84.32                             | 122.2                            | JIS G3459 SUS 304 TP | 34.0x3.0   |
| TBC - E04 -028  | 90ES WP316/316LS 1 S10S      | 5                   | 28 | 2004 | 274.4              | 562                  | 0.49                                     | 100.5                                  | 82.45                             | 121.9                            | ASTM A312-TP316L     | 34.0x3.0   |
| TBC - E04 -030  | 90EL WP304/304LS 4 S10S      | 5                   | 28 | 2004 | 270                | 527                  | 0.51                                     | 27.46                                  | 24.61                             | 111.6                            | ASTM A312-TP304L     | 114.3x3.2  |
| P8402-6         | RC WPB 1 X 3/4 STD           | 8                   | 19 | 1988 | 272                | 474.6                | 0.57                                     | 137.3                                  | 96.0                              | 143.0                            | ASTM A106 Gr. B      | 34.0x3.9   |
| P8402-5         | RC WPB 4 X 3 STD             | 8                   | 22 | 1988 | 432.5              | 537.4                | 0.80                                     | 62.8                                   | 56.6                              | 110.9                            | ASTM A106 Gr. B      | 114.2x6.0  |
| P8402-7         | RC WPB 6 X 4 STD             | 8                   | 22 | 1988 | 306                | 452.1                | 0.68                                     | 56.9                                   | 38.2                              | 148.7                            | ASTM A106 Gr. B      | 168.3x7.1  |
| TBC - E13 - 011 | RC WPB 8 X 6 STD             | 2                   | 8  | 2013 | 308                | 469                  | 0.66                                     | 43.4                                   | 39.6                              | 109.6                            | ASTM A106 Gr. B      | 219.1x10.3 |
| P8402-10        | RE WPB 1 X 3/4 STD           | 8                   | 19 | 1988 | 396.2              | 484.4                | 0.82                                     | 137.3                                  | 98.0                              | 140.1                            | ASTM A106 Gr. B      | 34.0x3.9   |
| P8402-8         | RE WPB 4 X 3 STD             | 8                   | 22 | 1988 | 314                | 497.2                | 0.63                                     | 62.8                                   | 52.4                              | 119.9                            | ASTM A106 Gr. B      | 114.2x6.0  |
| P8402-9         | RE WPB 6 X 4 STD             | 8                   | 22 | 1988 | 365.8              | 482.9                | 0.79                                     | 58.8                                   | 39.1                              | 150.4                            | ASTM A106 Gr. B      | 168.3x7.1  |
| TBC - E13 - 012 | RE WPB 8 X 6 STD             | 2                   | 8  | 2013 | 285                | 466                  | 0.61                                     | 43.4                                   | 39.3                              | 110.4                            | ASTM A106 Gr. B      | 219.1x10.3 |
| TBC - E04 -025  | CAP WP304/304LS 11/2 S10S    | 5                   | 28 | 2004 | 282                | 551.5                | 0.53                                     | 102.97                                 | 53.96                             | 193.0                            | ASTM A240-TP304L     | 95x3.0     |
| TBC - E04 -026  | CAP WP304 4 S10S             | 5                   | 28 | 2004 | 373                | 678                  | 0.55                                     | 51.48                                  | 31.66                             | 162.6                            | JIS G4304 SUS 304    | 190x3.0    |
| TBC - E04 -027  | CAP WP304 6 S10S             | 5                   | 28 | 2004 | 287                | 699                  | 0.41                                     | 45.11                                  | 24.71                             | 182.6                            | JIS G4304 SUS 304    | 278x4.0    |
| TBC - E11 - 009 | T WPB 1 STD                  | 4                   | 22 | 2011 | 344                | 493                  | 0.70                                     | 106.3                                  | 100.3                             | 106.0                            | ASTM A106 Gr. B      | 34 X 3.9   |
| TBC - E11 - 008 | T WPB 4 STD                  | 4                   | 22 | 2011 | 355                | 477                  | 0.74                                     | 54.98                                  | 60.07                             | 108.6                            | ASTM A106 Gr. B      | 114.3x6.5  |
| TBC - E11 - 007 | T WPB 8 STD                  | 4                   | 22 | 2011 | 343                | 463                  | 0.76                                     | 39.2                                   | 33.9                              | 115.6                            | ASTM A106 Gr. B      | 219.1x10.3 |

QA 17746 52

  
 Manager of Engineering Department  
 THAI BENKAN CO., LTD.