

BUREAU VERITAS
Certification



Certificación Certification

Concedida a / Awarded to

MACOGA SA

CL LEIRA S/N
15680 ORDENES
SPAIN

Bureau Veritas certifica que el Sistema de Gestión ha sido auditado y encontrado conforme con los requisitos de la norma:

Bureau Veritas certify that the Management System has been audited and found to be in accordance with the requirements of standard:

NORMA / STANDARD

ISO 9001:2008

El Sistema de Gestión se aplica a:

Scope of certification:

DISEÑO Y FABRICACIÓN DE COMPENSADORES DE DILATACIÓN, RECIPIENTES A PRESIÓN Y OTROS ELEMENTOS SOLDADOS

DESIGN AND MANUFACTURING OF EXPANSION JOINTS, PRESSURE VESSELS AND OTHER WELDED ELEMENTS

Número del Certificado
Certificate Number

ES048056-1

Director General / General Manager
Bureau Veritas Certification, S.A.

Aprobación original :
Original approval date :

25/10/2000

Certificado en vigor:
Effective date:

24/03/2013

Caducidad del certificado:
Certificate expiration date:

23/03/2016

Este certificado está sujeto a los términos y condiciones generales y particulares de los servicios de certificación
This certificate is valid, subject to the general and specific terms and conditions of certification services

Managing Office/ Oficina Central: Bureau Veritas Certification, S.A.
Issuing Office Oficina de emisión: Bureau Veritas Certification, S.A.
C/ Valportillo Primera 22-24, Edificio Caoba, Pol. Ind. La granja, 28108 Alcobendas Madrid



CERTIFICADO DE APROBACION DEL SISTEMA DE CALIDAD
CERTIFICATE OF QUALITY SYSTEM APPROVAL

N° CE-0056-PED-H-MAC 001-14-ESP

ECA ENTIDAD COLABORADORA DE LA ADM S.A.U, actuando dentro del campo de su notificación (Organismo Notificado nº 0056), y acreditado por ENAC con acreditación nº OC-C/0190, certifica que el sistema de calidad aplicado por el fabricante para el diseño, la fabricación, la inspección final y los ensayos de los equipos a presión identificados a continuación, ha sido evaluado según los requisitos del módulo H del anexo III de la Directiva de Equipos a Presión 97/23/CE, y satisface las disposiciones de la directiva que le aplican.

ECA ENTIDAD COLABORADORA DE LA ADM S.A.U, acting within the scope of its notification (notified body number 0056), attests that the quality system operated by the manufacturer for design, manufacture, final inspection and testing of the pressure equipment identified hereunder has been examined against the provisions of annex III, module H, of the Pressure Equipment Directive nº 97/23/EC, and found to satisfy the provisions of the directive which apply to it.

Fabricante (Nombre) / *Manufacturer (Name)*: MACOGA SA
 Dirección / *Address*: CL LEIRA S/N
 15680 ORDENES
 Spain
 Nombre comercial - Marca: MACOGA
Trading Name - Mark

Descripción del equipo / *Equipment description*: Juntas de Expansión / *Expansion Joints*
 Identificación de los tipos afectados (lista adjunta en su caso): MWA, MWD, MTE, MTI, MFA, MFG, MFD, MWP, MFP, MWC, MFC, MWL,
Identification of equipment concerned (list attached where necessary) MFL, MWY, MFY, MWK, MFK, MEP, MPB, MRR, MJA, MRW, MRU, MUX, LMF, LENS, MAC-WT, MAC-FT, MAC-F, MAC-W.-

Este certificado es válido hasta (día/mes/año): 21/03/2017
This certificate will expire on (dd/mm/yyyy)

La aprobación está condicionada a la realización de auditorias, ensayos y verificaciones llevados a cabo por ECA ENTIDAD COLABORADORA DE LA ADM S.A.U, según las condiciones establecidas en la solicitud firmada con el fabricante.
The approval is conditional upon the surveillance audits, tests and verifications to be carried out by ECA ENTIDAD COLABORADORA DE LA ADM S.A.U, as per the provisions stated in the agreement signed with the manufacturer.

Este certificado será presumido nulo y solo el fabricante soportará cualquier consecuencia derivada de su utilización, cuando el fabricante no cumpla con sus obligaciones según el acuerdo con respecto a : (a) implementación de su sistema de calidad aprobado, (b) conformidad del equipo con el tipo y (c) inspección y ensayos del producto final, y de forma general, cuando el fabricante no cumpla en particular con cualquiera de sus obligaciones incluidas en la Directiva 97/23/CE del 29 de mayo de 1997 transpuesta por el R.D. 769/1999.

This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, where the manufacturer fails to comply with his undertakings as per the agreement in respect of (a) implementation of the approved quality system and (b) inspection and tests on the final product, and generally where the manufacturer fails in particular to comply with any of his obligations under directive nr 97/23/EC of 29 may 1997 as transposed in the applicable law(s).

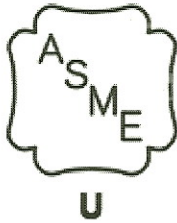
Fecha de la auditoría inicial o de renovación (día/mes/año) / *Date of initial or renewal audit (dd/mm/yyyy)*: 20/03/2014
 Inspector / *Surveyor*: JUAN JOSE MENENDEZ CASTAÑO

Realizado en <i>Made at</i>	El(día/mes/año) <i>On (dd/mm/yyyy)</i>	Aprobado y registrado en <i>Approved and Recorded in</i>	Firmado por <i>Signed by</i>	Firma autorizada por el Organismo Notificado nº 0056 <i>Signature Authorized by Notified Body No 0056</i>
Órdenes	22/03/2014	Spain	JAVIER IRIGOYEN RECALDE	

Código de registro / *Registration Code* : 2014/000271/CE-0056-PED

Este certificado está sujeto a los términos de las condiciones generales de actuación de ECA ENTIDAD COLABORADORA DE LA ADM S.A.U.
This certificate is subject to the terms of Bureau Veritas General Conditions of Service attached to the agreement signed by the applicant.
 Este documento no puede ser reproducido sin la aprobación escrita de ECA ENTIDAD COLABORADORA DE LA ADM S.A.U y el Cliente.
The present document shall not be reproduced, except in full, without ECA ENTIDAD COLABORADORA DE LA ADM S.A.U and Client's approval.

PED - Procedimiento 707026 - Anexo II



CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

**Macoga, S.A.
Leira S/N
15680 Ordenes
La Coruna
Spain**

SCOPE:

Manufacture of pressure vessels at the above location only

AUTHORIZED: **May 22, 2014**

EXPIRES: **May 22, 2017**

CERTIFICATE NUMBER: **35,036**

A handwritten signature in black ink, appearing to read 'Bryan A. Eiler'.

Vice President, Conformity Assessment



A handwritten signature in black ink, appearing to read 'Gerald N. Wjeh'.

Director, Conformity Assessment

**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

Certificate of Authorization



This is to certify that

**MACOGA, S.A.
LEIRA S/N
15680 ORDENES
LA CORUÑA
SPAIN**

is authorized to apply the "NB" mark and register boilers, pressure vessels, or other pressure retaining items with the National Board in accordance with its provisions.

The scope of Authorization is limited to items manufactured in accordance with:

ASME Designator(s): U

ISSUE DATE: June 16, 2014

EXPIRATION DATE: May 22, 2017

Executive Director

A handwritten signature in black ink, appearing to read 'D. O. O.', is written over the printed name of the Executive Director.



Certificate

Inspection of a manufacturer and welding shop

acc.AD 2000-Merkblatt HP 0 and DIN EN ISO 3834-2

Certificate no.:

01 202 E/A-12 5343/Rev.00

Name and address of the
manufacturer:

MACOGA, S.A.
C/ Leira, s/n
E-15680 ORDENES (LA CORUÑA)
SPAIN

It is hereby certified that the manufacturer has furnished proof of the quality requirements. The above-mentioned company

- has facilities permitting manufacturing and inspection in conformity with the present technical standard,
- operates a quality system which guarantees that manufacturing and inspection of the products stated in our report are in conformity with the technical codes and regulations,
- employs qualified supervisory and inspection personnel.

Inspection:

according to AD 2000-Merkblatt HP 0 and DIN EN ISO 3834-2

Test Report no.:

33244144

Area of Application:

METAL EXPANSION JOINTS IN CARBON STEEL AND
STAINLESS STEEL, FROM 15mm O.D. UP TO 7000mm
O.D., WALL THICKNESS FROM 0,4 TO 110 mm

Production Location:

MACOGA, S.A.
C/ Leira, s/n
E-15680 ORDENES (LA CORUÑA)
SPAIN

Valid until:

November 30, 2015

Cologne, June 30, 2013

Dipl.-Ing. S. Kreis



TÜV Rheinland-Certification Body for
Pressure Equipment
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, D-51105 Köln

M-010-Rev3

www.tuv.com

 **TÜVRheinland®**
Precisely Right.

Certificado

Inspección de fabricante y taller de soldadura

AD 2000-Merkblatt HP0 y DIN EN ISO 3834-2

Certificado N°:

01 202 E/A-12 5343/Rev.00

Nombre y dirección del fabricante

MACOGA, S.A.
C/ Leira, s/n
E-15680 ORDENES (LA CORUÑA)
SPAIN

Este certificado esta emitido para certificar que el fabricante cumple con los requerimientos de calidad de la mencionada compañía

-Posee las facilidades que permiten una fabricación e inspección en conformidad con el presente norma

-Posee un sistema de calidad el cual garantiza la fabricación, e inspección de los productos que se relatan en nuestro informe en conformidad con las regulaciones y códigos técnicos,

-Posee personal debidamente cualificado

Inspección:

AD 2000-Merkblatt HP0 y DIN EN ISO 3834-2

Informe N° .:

33244144

Area de aplicación :

JUNTAS DE EXPANSIÓN METALICAS EN ACERO AL CARBONO E INOXIDABLE DE 15mm HASTA 7000mm DE DIAMETRO EXTERIOR CON ESPESORES DE PARED DESDE 0,4 A 110 mm

Planta de Produccion :

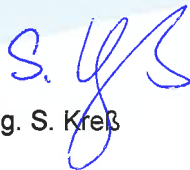
MACOGA, S.A.
C/ Leira, s/n
E-15680 ORDENES (LA CORUÑA)
SPAIN

Valido hasta

Noviembre 30, 2015

Colonia, Junio 30, 2013

Dipl.-Ing. S. Kreß



TÜV Rheinland-Certification Body for
Pressure Equipment
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, D-51105 Köln

M-010-Rev3

www.tuv.com

 **TÜVRheinland®**
Precisely Right.

Type Approval Certificate Extension

This is to certify that Certificate No. 00/00050(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Macoga SA
PLACE OF PRODUCTION	Leira, S/N 15680 Ordenes La Coruna Spain
DESCRIPTION	Convolutated Metallic Expansion Joints
TYPE	MWA and MFA
APPLICATION	Expansion joints for use in the following metallic pipe systems: Air; Fuel (crude oil, diesel oil and benzene); Exhaust gas; Inert gas; Oil (thermal and cargo); Steam (including condensate); Fresh water; Sea water.
DESIGN CODE	The Expansion Joint Manufacturers' Association; ASME VIII, Div. 1/ ANSI B31.3; Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12; Lloyd's Register's Rules and Regulations for the Classification of Special Service Craft, Part 15, Chapter 1.
Certificate No.	00/00050(E2)
Issue Date	21 March 2011
Expiry Date	2 May 2015
Sheet	1 of 2



P. F. Moysey
London Design Support Office
Lloyd's Register EMEA

*Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS*

RATINGS

Working Pressure. PN (bar)	Max. Diameter (mm)
1	7000
2.5	3600
5	2800
10	2000
16	1600
25	1400
40	1200
64	1000
100	400
160	300

OTHER CONDITIONS

1. Expansion joint materials intended for use in Class I and Class II piping systems on LR Classed ships are to be manufactured and tested in accordance with the applicable requirements of Part 2 of Lloyd's Register's Rules and Regulations.
2. Expansion pieces are to be protected against mechanical damage, over extension and compression. The adjoining pipes are to be suitably aligned, supported, guided and anchored.
3. Materials exposed to sea water are to be of a low carbon grade (<0.03% C).

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 00/00050(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 00/00050(E1) to which this extension should be attached.

Certificate No. 00/00050(E2)
Issue Date 21 March 2011
Expiry Date 2 May 2015
Sheet 2 of 2



P. F. Moysey
London Design Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



MARINE DIVISION

Certificate number: 12140/B0 BV

File number: ACM 188/1305/003

Product code: 21011

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

MACOGA, S. A.
ORDENES - LA CORUÑA - SPAIN

for the type of product

METALLIC EXPANSION JOINTS / BELLOWS

Axial and Lateral Expansion Joints Type MFA

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 21 Dec 2014

For BUREAU VERITAS,

At BV MADRID, on 21 Dec 2009,

Montserrat Espin



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.



MARINE DIVISION

Certificate number: 12139/B0 BV

File number: ACM 188/1305/002

Product code: 21011

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

MACOGA, S. A.
ORDENES - LA CORUÑA - SPAIN

for the type of product

METALLIC EXPANSION JOINTS / BELLOWS

Lateral Expansion Joints Type MFL

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 21 Dec 2014

For BUREAU VERITAS,

At BV MADRID, on 21 Dec 2009,

Montserrat Espin



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.



MINISTERIO DE DEFENSA
SECRETARÍA DE ESTADO DE DEFENSA
DIRECCIÓN GENERAL DE ARMAMENTO Y MATERIAL
SUBDIRECCIÓN GENERAL DE INSPECCIÓN Y SERVICIOS TÉCNICOS

CERTIFICADO DE RENOVACIÓN EN EL REGISTRO DE EMPRESAS

La empresa:

MACOGA, S.A. (MACOGA, S.A.)
CIF: A15021843

permanece inscrita en el Registro de Empresas de la Dirección General de Armamento y Material (DGAM), con el Número de Registro:

5182/7737B (AUXILIAR)

El presente certificado es válido hasta el 30 de noviembre de 2014.

En Madrid, a 3 de diciembre de 2013.

**El Jefe del Área
de Gestión Industrial**



Lucía Acedo Peque

Número de expediente: 22876 | CSV: 104/ALRbPt/Z8dGpVEhEWbS2F2SH4E=

La vigencia de la inscripción puede ampliarse mediante la aportación por la empresa de los datos del ejercicio

РОССИЙСКАЯ ФЕДЕРАЦИЯ
СЕРТИФИКАТ СООТВЕТСТВИЯ
(обязательная сертификация)

№ C-ES.AG88.B.28589
(номер сертификата соответствия)

ТР 1606547
(учетный номер бланка)

ЗАЯВИТЕЛЬ "MACOGA, S.A.". Адрес: Leira, s/n Ordenes (La Coruña), 15680-Spain, Испания. Телефон +34 981 680 000.
(наименование и местонахождение заявителя)

ИЗГОТОВИТЕЛЬ "MACOGA, S.A.". Адрес: Leira, s/n Ordenes (La Coruña), 15680-Spain, Испания. Телефон +34 981 680 000.
(наименование и местонахождение изготовителя продукции)

ОРГАН ПО СЕРТИФИКАЦИИ ООО "Проксима". 115682, РФ, г. Москва, ул. Шипиловская, д. 64, корп. 1, оф. 147, тел. (495) 626-24-62, факс (495) 626-24-62, E-mail os.proksima@mail.ru. ОГРН: 1117746508450. Аттестат рег. № РОСС RU.0001.11AG88 выдан Федеральным агентством по техническому регулированию и метрологии.
(наименование и местонахождение органа по сертификации, выдавшего сертификат соответствия)

ПОДТВЕРЖДАЕТ, ЧТО ПРОДУКЦИЯ Сильфонные компенсаторы, артикулы согласно приложению (бланк № 0457222). Серийный выпуск.
(информация об объекте сертификации, позволяющая идентифицировать объект)

код ОК 005 (ОКП)
37 4200

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ ТЕХНИЧЕСКОГО РЕГЛАМЕНТА (ТЕХНИЧЕСКИХ РЕГЛАМЕНТОВ) Технический регламент о безопасности машин и оборудования (Постановление Правительства РФ от 15.09.2009 N 753 с изменениями, утвержденными постановлением Правительства РФ от 24.03.2011 N 205)
(наименование технического регламента (технических регламентов), на соответствие требованиям которого (которых) проводилась сертификация)

код ЕКПС

код ТН ВЭД России
8307 10 000 9

ПРОВЕДЕННЫЕ ИССЛЕДОВАНИЯ (ИСПЫТАНИЯ) И ИЗМЕРЕНИЯ Протокол № 04/13-Д04 от 22.01.2013 г., Испытательная лаборатория ООО "УЭС-Калининград", рег. № РОСС RU.0001.21AB65 от 13.07.2011, адрес: 236039, г. Калининград, ул. Новый Вал, 22, к. 13

ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ
(документы, представленные заявителем и орган по сертификации в качестве доказательства соответствия продукции требованиям технического регламента (технических регламентов))

СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ с 23.01.2013 по 22.01.2016



Руководитель
(заместитель руководителя)
органа по сертификации
подпись, инициалы, фамилия

Л.Л. Сумцов

Эксперт (эксперты)
подпись, инициалы, фамилия

В.Н. Волков

РОССИЙСКАЯ ФЕДЕРАЦИЯ

ПРИЛОЖЕНИЕ

к СЕРТИФИКАТУ СООТВЕТСТВИЯ № С-ES.AГ88.B.28589

(обязательная сертификация)

ТР 0457222

(учетный номер бланка)

Перечень продукции, на которую распространяется действие сертификата соответствия

код ОК 005 (ОКП) код ТН ВЭД России	Наименование, типы, марки, модели однородной продукции, составные части изделия или комплекса	Обозначение документации, по которой выпускается продукция
37 4200 8307 10 000 9	Сильфонные компенсаторы, арт.: MWA (DN 15-6000), MTE (DN 15-6000), MTI (DN 15-6000), MFA (DN 15-6000), MFG (DN 15-6000), MWP (DN 15-6000), MFP (DN 15-6000), MWC (DN 15-6000), MFC (DN 15-6000), MWL (DN 15-6000), MFL (DN 15-6000), MWD (DN 15-6000), MFD (DN 15-6000), MWY (DN 15-6000), MFY (DN 15-6000), MWK (DN 15-6000), MFK (DN 15-6000), MPB-E (DN 15-6000), MPB-I (DN 15-6000), MRW (DN 15-6000), MRV (DN 15-6000), MRU (DN 15-6000), MUX (DN 15-6000), MRR (DN 15-6000), MEP (DN 15-6000), MJA (DN 15-6000), MWT (DN 15-6000), MFT (DN 15-6000), MQP (DN 15-6000), M-LENS (DN 15-6000)	



Руководитель
(заместитель руководителя)
органа по сертификации
подпись, инициалы, фамилия

Л.Л. Сумцов

Эксперт (эксперты)
подпись, инициалы, фамилия

В.Н. Волков

KINGDOM OF SAUDI ARABIA

**Conformity Assessment
Programme**

Statement for Registration

CAP ref. No.: **KSA R-ESB00359**

New

Issued to:

MACOGA, S.A.
LEIRA S/N
ORDES
A CORUÑA
SPAIN
15680

Product:

V-02 - STEEL AND IRON ALLOY PRODUCTS incl.
PIPES, BARS, RODS, TUBES, ANGLES, PROFILES
AND STEEL LIGHTING POLES

Brand name:

MACOGA

Model/Type:

See Appendix

Applicable
Standards/References:

EJMA/ ASME VIII DIV.1, FLUID SEALING
ASSOCIATION BOOK

Additional Information:

The Intertek logo consists of the word "Intertek" in a white, sans-serif font, centered within a dark blue rounded rectangular background.

Issued by:
Intertek SPAIN Office

A handwritten signature in blue ink, appearing to read "David Mato", is positioned above a horizontal line.

David Mato
Intertek CO/RLC Manager

This Statement for Registration is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Statement for Registration. Only the Client is authorized to permit copying or distribution of this Statement for Registration and then only in its entirety. Any use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Appendix to Statement for Registration

CAP Ref.no: KSA R-ESB00359

Issued: 11 April 2014

**Product: V-02 - STEEL AND IRON ALLOY PRODUCTS incl. PIPES, BARS,
RODS, TUBES, ANGLES, PROFILES AND STEEL LIGHTING
POLES**

Model/Type	Information	Standards	Review Date If Verified
RUBBER EXPANSION JOINT	EXPANSION JOINTS	FLUID SEALING ASSOCIATION BOOK	11-April -2015
METALIC EXPANSION JOINT	EXPANSION JOINTS	EJMA/ ASME VIII DIV.1	11-April -2015