

***MONOLITHIC
ISOLATION JOINTS
& SPECIAL PIPELINE
ACCESSORIES***



ERAM Technologies Detail

ERAM in Latin means I was, hence the essence of working matter and transforming it into technology to serve man and the environment. After over 30 years of experience in designing technology components in the Oil & Gas industry, the choice of creating a new company to provide design and construction expertise for the proposed products.



ERAM Technologies Team

Our team is made up of professional people that are always capable to assist and give Customers the best solution for their needs. A single partner able to assist you in a timely manner and that never leaves you alone, to which you can contact for any needs. We are Italian and the passion we put into our job is the same we have inside of our heart.

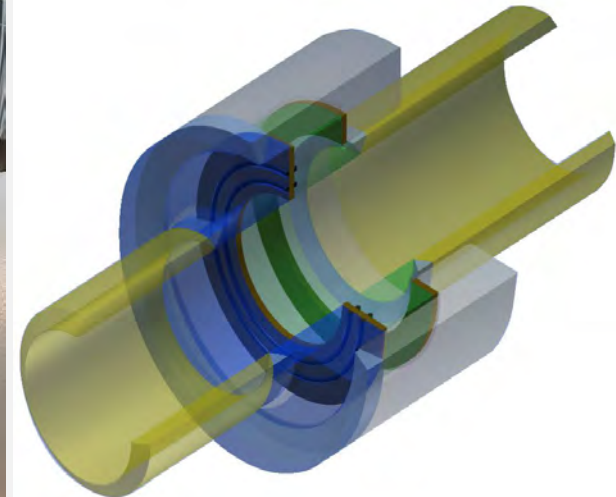


Passion to our job and to the customer always comes first

ERAM Technologies rooted strongly in the Oil & Gas and petrochemical sector, produce and supply Monolithic Isolation Joints for both onshore and offshore projects. Saving in the overall cost of corrosion control system is just one of the benefits of using Monolithic Isolation Joints. Monolithic Isolation Joints are used worldwide for permanently controlling the flow of electrical currents or electrically isolating pipe sections in pipes and piping systems. Effective management of cathodic protection programs results from the use of these highly reliable substitutes for flange isolating gasket kits system.

Other benefits include protection against earthing currents at domestic and industrial premises, isolation of pipeline cathodic protection system and to ensure that cathodic protection or stray currents do not cause increased corrosion.

ERAM Technologies Monolithic Isolation Joints are designed to meet and satisfy very high pressure services up to 20,000 psi. Upon request, we can supply Monolithic Isolation Joints according to Project specification.



Design and Fabrication of Pipelines Components

ERAM Technologies supply Monolithic Isolation Joints (MIJ) in Carbon Steel, Stainless Steel, Duplex and Super Duplex Stainless Steel, for various services Fluid, range of temperatures and pressures, suitable for above and underground Installation in full compliance to NACE RP 02-86 for Cathodic Protection Pipeline. Our products (MIJ) are designed according with ASME B31 series, ASME VIII Div. I/II, EN 13445, and other Statuary Codes. Our products are tested into laboratories as per our customers project Specification requests.

ERAM Technologies also supply Anchor Flanges type Welding Neck (WN) e Slip On (SO), Socket Weld (SW), and special shape as per customers drawings. We supply also Swivel Flanges and Spectacle Blind (Disk and Spacer) for piping system. Our Anchor Flanges, Swivel Flanges and Spectacle blinds are Designed according ASME VIII Div. I/II available into all ANSI and API classe; Carbon Steel, Stainless Steel, Duplex, Super Duplex Stainless Steel, and other available materials.

ERAM Technologies is able to supply Special Pipeline accessories, and we are in progress to design new cutting-edge solutions to protect the environment.

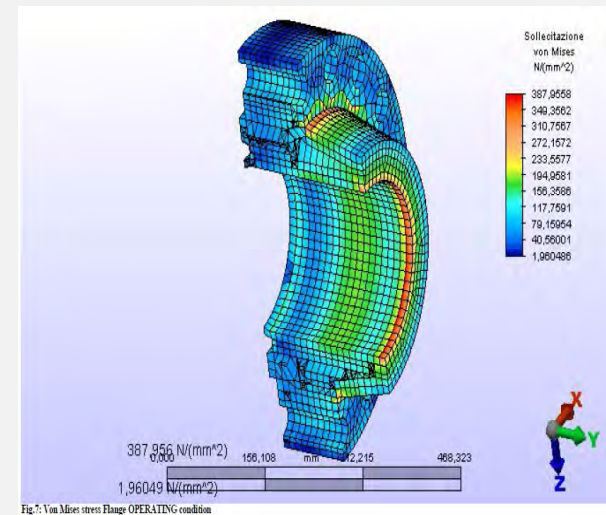
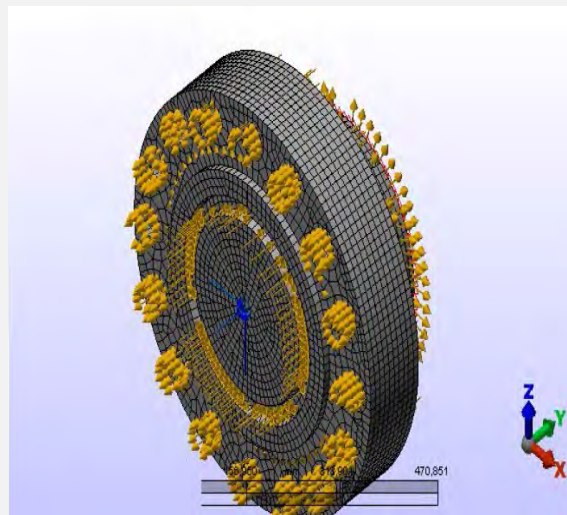


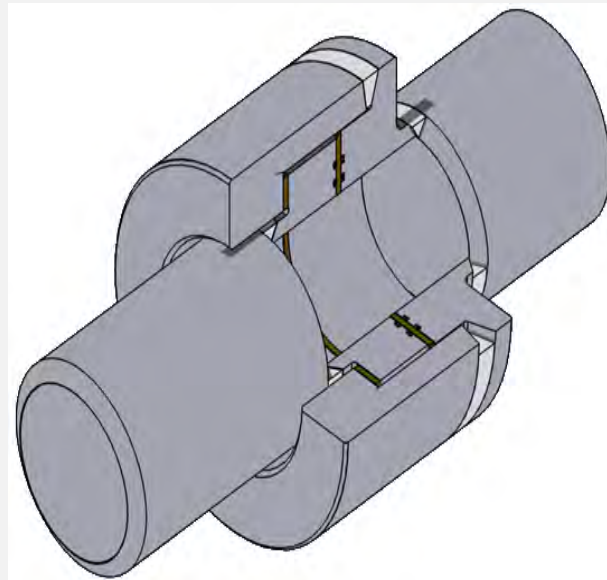
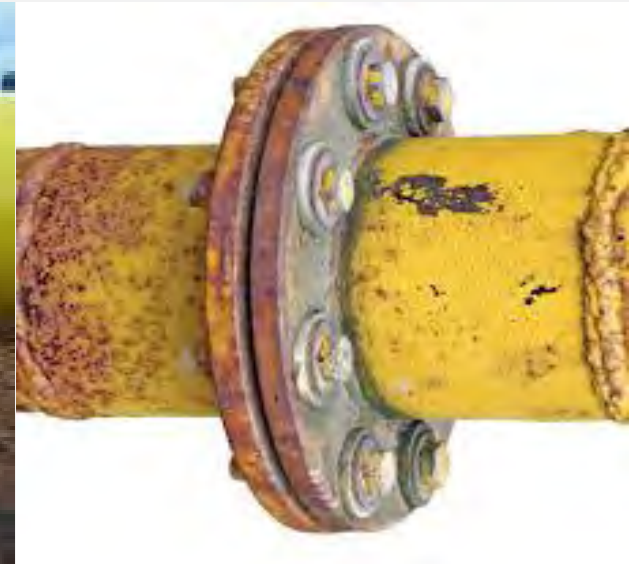
Fig.7: Von Mises stress Flange OPERATING condition

Advantages of MIJs vs. Flange Isolating Gasket Kits

Worldwide people consider flange isolating gasket kits more cost efficient than Monolithic Isolation Joints. Infact flange isolating gasket kits are cheaper then Monolithic Isolation Joints but only when Companies purchase them without considering all the variables. Materials replacement, installation on field, inspection on field and periodic maintenance. Considering the replacement of various components of the kit since they will deteriorated in short time, the Monolithic Isolation Joint is the most convenient and effective product for the cathodic protection of the pipelines.

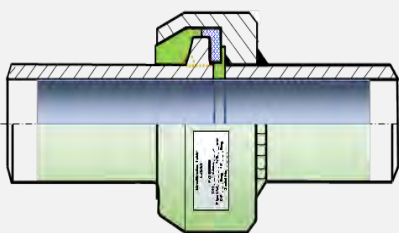
Advantages & Benefits

- No loss of integrity
- Maintenance-free
- Extreme bending and torsional resistance
- Earthquake resistant
- Prefabricated, tested in factory & ready to install (do not need field assembly)
- Fully welded component
- Coated both internally and externally
- No labor intensive required as for flange isolating gasket Kits

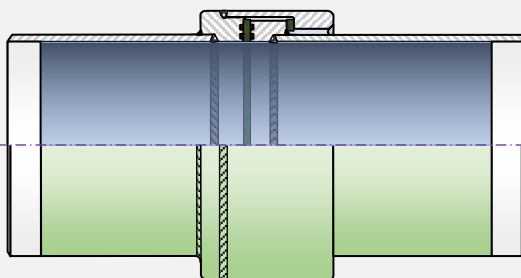


STANDARD DESIGN CONSTRUCTION												Basic Parameters of Monolithic Isolation Joints	
Class 150				Class 300				Class 600				Certification	EN 10204 3.1 (EN 10204 3.2 if requested)
DN (inch)	Wtk (mm)	Length (mm)	Type	DN (inch)	Wtk (mm)	Length (mm)	Type	DN (inch)	Wtk (mm)	Length (mm)	Type	Design Code	ASME VIII D.I - ANSI B 31.8/4/3
1"	3,38	250	FW	1"	3,38	250	FW	1"	3,38	250	FW	Design Factor	0,2 to 0.72
2"	3,91	300	FW	2"	3,91	300	FW	2"	5,54	350	FW	Pipe Pups (ISO3183 - API 5L)	Carbon Steel All Grades + Low Alloy & Alloy Steel + Duplex & Super Duplex
3"	4,78	400	FW	3"	5,49	400	FW	3"	5,49	500	FW	Body Parts	ASTM / ASME / UNS / EN Materials
4"	4,78	400	FW	4"	6,02	400	FW	4"	6,02	500	FW	Double "OR" Gasket (BW & DW) Flat Gasket (FW)	ERAM Technologies can use any kind of "O" Ring or Flat Gasket depending on project for SOUR - NON-SOUR - TOXIC environment requirements and special applications (NBR - FKM - FEP-O-SEAL - ENERSEAL - KALREZ).
6"	5,56	500	FW	6"	7,11	500	FW	6"	7,11	600	FW	FLUIDS	Gas, Hydrocarbons, Oil, Chemical Fluids, Water
8"	6,35	500	FW	8"	8,18	500	FW	8"	8,18	600	FW	SERVICES	SOUR / NON SOUR /TOXIC /LETHAL
10"	6,35	700	DW (BW)	10"	8,74	700	DW (BW)	10"	9,27	700	DW (BW)	Insulator	Polycarbonate or NEMA G10/G11 - ASTM D709 -Class H
12"	6,35	700	DW (BW)	12"	9,52	700	DW (BW)	12"	9,52	700	DW (BW)	Resin Filler	Cold Cured Epoxy
14"	7,92	700	DW (BW)	14"	9,52	700	DW (BW)	14"	9,52	700	DW (BW)	Sealant	Silicon Neutral Low Module
16"	7,92	700	DW (BW)	16"	10,31	800	DW (BW)	16"	10,31	800	DW (BW)	Electric Insulation Resistance	>200 MΩ
18"	7,92	700	DW (BW)	18"	11,91	800	DW (BW)	18"	11,91	800	DW (BW)	Dielectric Strenght Test	5 to max 12 kV (AC) / 50 Hz (1-5 min)
20"	7,92	800	DW (BW)	20"	11,91	800	DW (BW)	20"	11,91	800	DW (BW)	Hydrostatic Test	1,5 times Design Pressure (or as per Customer Specification)
24"	9,52	800	DW (BW)	24"	12,7	800	DW (BW)	24"	14,27	800	DW (BW)	Pneumatic Air Test	10 bar 10 Min., if required
30"	9,52	1000	DW (BW)	30"	15,88	1000	DW (BW)	30"	15,88	1000	DW (BW)	Hydro-Fatigue Test (barg x cycles)	5 Cycles at 80% TP (or as per Customer Specification), if required
36"	9,52	1100	DW (BW)	36"	19,05	1200	DW (BW)	36"	19,05	1200	DW (BW)	Internal / External Coating	Epoxyphenolic or Amine Cure Epoxy Resin. Depending on Project Specification, we can apply any required painting system
40"	9,52	1100	DW (BW)	40"	20,62	1200	DW (BW)	40"	20,62	1200	DW (BW)	NDE Pup Bevels	100% MT/UT - ASME V - ASME VIII
42"	9,52	1100	DW (BW)	42"	20,62	1200	DW (BW)	42"	20,62	1200	DW (BW)	NDE W3 Closure Weld	100% MT/UT - ASME V - ASME VIII
48"	12,7	1200	DW (BW)	48"	21,3	1300	DW (BW)	48"	21,3	1300	DW (BW)	NDE W1-W2 Butt Welds	100% MT/UT/RT- ASME V - ASME VIII
56"	14,3	1200	DW (BW)	56"	25,4	1400	DW (BW)	56"	28,6	1400	DW (BW)	Max Allowable Loads	up to 95% SMYS, if required
Note: - All above mentioned information are indicative only and maybe changed as per Client requirement - Butt Weld Design Construction will be used only in case of X-ray requirement												Additional tests available upon request	HIC Test - SSC Test - Vacuum Test - 3% saline immersion Test - Pull Off Test - Adhesion Test
												PED Certification	Upon Request
												ATEX CE Certification	Upon Request

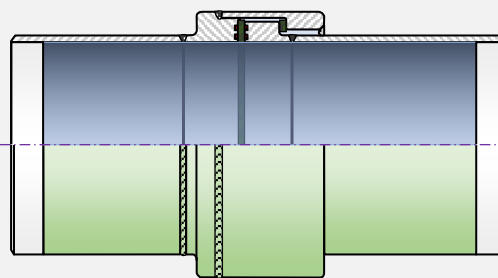
Type FW (Fillet Weld)



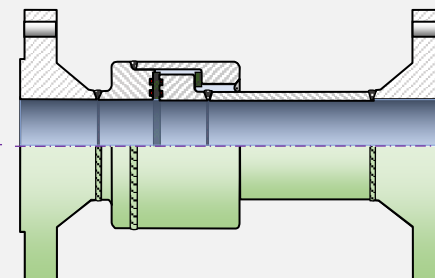
Type DW (Double Weld)



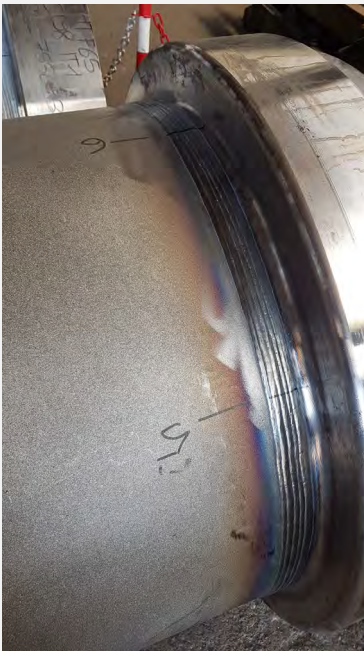
Type BW (Butt Weld)



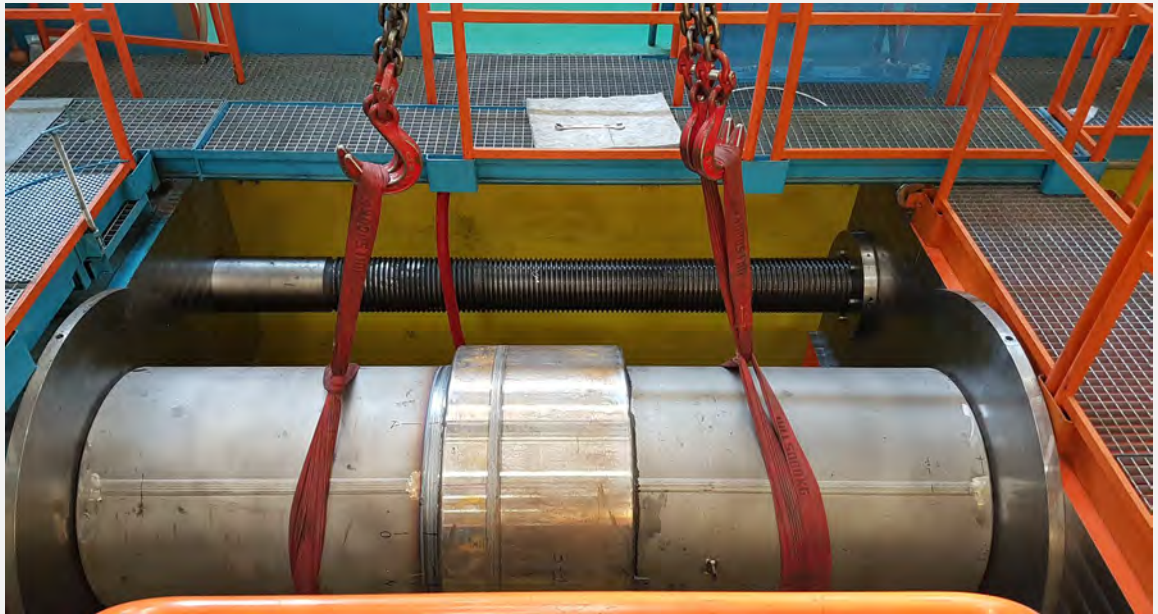
Type FL-BW (Flanged Butt Weld)



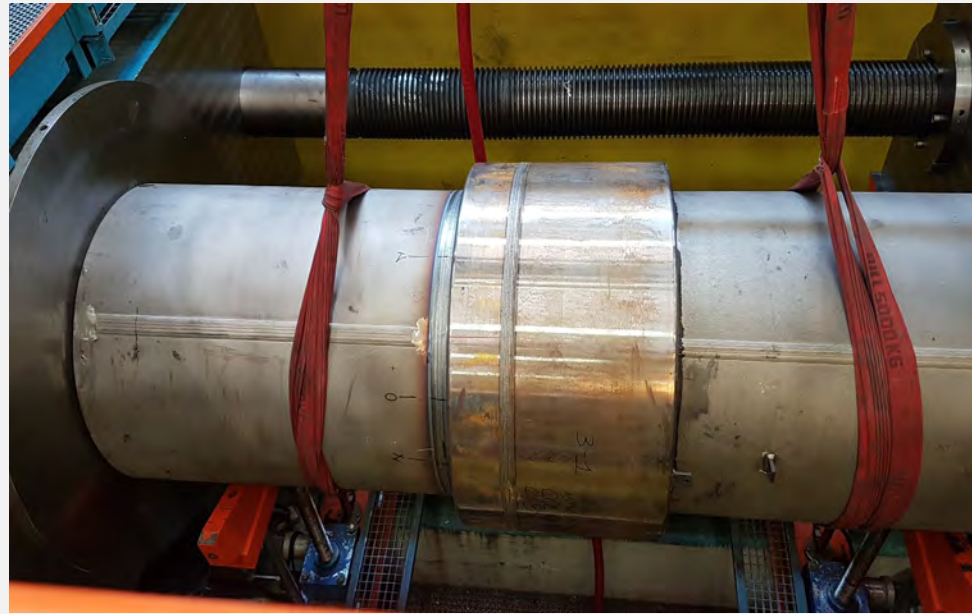
Machining, NDT, Welding, Assembling

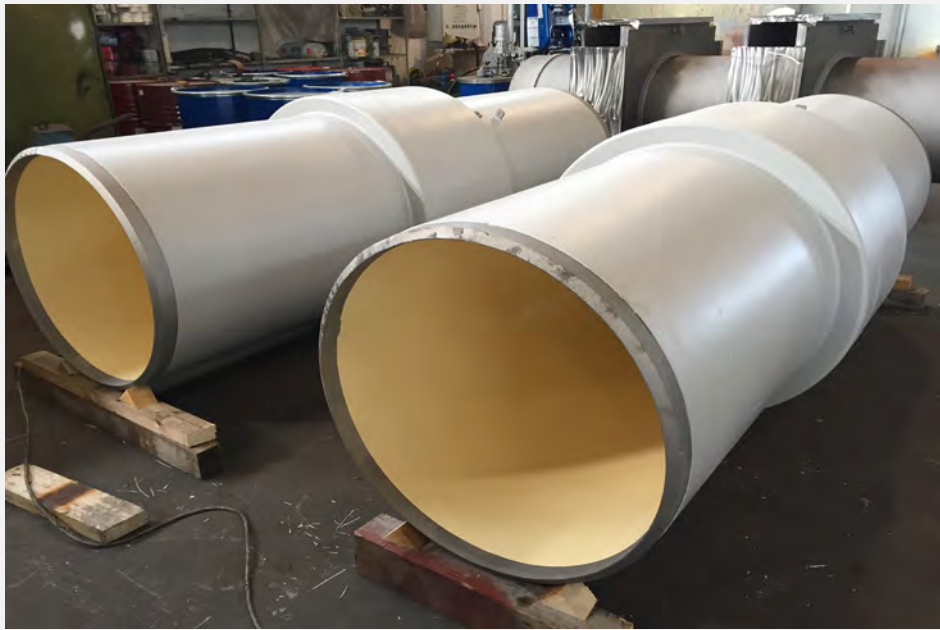


Pressure Test

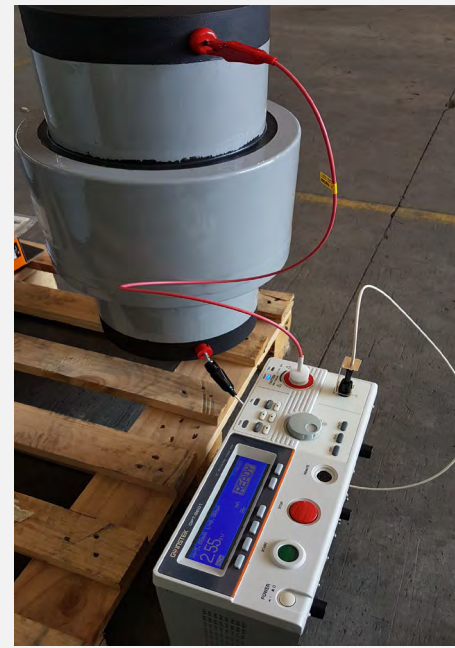


Pressure Test





Painting



Final Tests



Bureau Veritas Certification

ERAM TECHNOLOGIES S.R.L.

Via Paraboschi 7 - 29010 GRAGNANO TREBBIENSE (PC) - Italy

Sede Oggetto di certificazione:

Via Marcheselli, 9 - 29122 PIACENZA (PC) - Italy

Bureau Veritas Italia S.p.A. certifica che il sistema di gestione dell'organizzazione sopra indicata è stato valutato e giudicato conforme ai requisiti della norma di sistema di gestione seguente

ISO 9001:2015

Campo di applicazione

Progettazione e produzione di giunti isolanti monolitici e componenti speciali.
IAF: 17

Data della certificazione originale: 06-Marzo-2019
Data di scadenza precedente ciclo di certificazione: 05-Marzo-2022
Data dell'Audit di certificazione / rinnovo: 11-Marzo-2022
Data d'inizio del presente ciclo di certificazione: 19-Aprile-2022

Soggetto al continuo e soddisfacente mantenimento del sistema di gestione questo certificato è valido fino al: 05-Marzo-2025

Certificato Numero: IT314652 Versione: 1 Data di emissione: 19-Aprile-2022

GIORGIO LANZAFAME - Local Technical Manager



SGQ N° 009A
Revision degli Accordi di Mutual Recognition ISO, IAF e ILAC
Signatory of ISO, IAF and ILAC Mutual Recognition Agreements

Indirizzo dell'organismo di certificazione:
Bureau Veritas Italia S.p.A., Viale Monza, 347 - 20126 Milano, Italia

Ulteriori chiarimenti sul campo di applicazione di questo certificato e sui requisiti applicabili della norma del sistema di gestione possono essere ottenuti consultando l'organizzazione.

Per controllare la validità di questo certificato fare doppio click sul QR CODE o scansionarlo con apposita App



1/1



Bureau Veritas Certification

ERAM TECHNOLOGIES S.R.L.

Via Paraboschi 7 - 29010 GRAGNANO TREBBIENSE (PC) - Italy

Certified site:

Via Marcheselli, 9 - 29122 PIACENZA (PC) - Italy

Bureau Veritas Italia S.p.A. certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

Design and production of monolithic insulating joints and special components.
IAF: 17

Original cycle start date: 06-March-2019
Expiry date of previous cycle: 05-March-2022
Certification / Recertification Audit date: 11-March-2022
Certification / Recertification cycle start date: 19-April-2022

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 05-March-2025

Certificate No.: IT314652 Version: 1 Issue Date: 19-April-2022

GIORGIO LANZAFAME - Local Technical Manager



SGQ N° 009A
Revision degli Accordi di Mutual Recognition ISO, IAF e ILAC
Signatory of ISO, IAF and ILAC Mutual Recognition Agreements

Certification body address:
Bureau Veritas Italia S.p.A., Viale Monza, 347 - 20126 Milano, Italia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

To check the validity of this certificate please double click or scan QR CODE



1/1

ISO 9001:2015 Certification

ISO 9001

BUREAU VERITAS
Certification

Certificate No. - Version: IT288618-1



Where we are:

Legal Headquarter: Via Paraboschi N. 7
29010 Gragnano Trebbiense (PC) – ITALY
Office Headquarter : Via Olaf Palme N. 41
41015 Nonantola (MO) - ITALY
Operating Unit 1 : Via Marcheselli N. 9
29122 Piacenza (PC) – ITALY
Operating Unit 2 : Via Emilia N. 39
43010 Fontevivo (PR) – ITALY

Website: www.eram-technologies.com
Mail: sales@eram-technologies.com

