

## PAM within the Saint-Gobain group

## ANDUSTRY ${ }^{\text {AR }}$

Saint-Gobain, a unique world brand
Saint-Gobain PAM, with a unique world brand, is part of the Construction Products Division of Saint-Gobain, one of the world's leading industrial groups, specialised in the production, conversion and distribution of materials for industry and construction.
Saint-Gobain's skills are organised around four areas of activity: Building Distribution, Construction Products, Packing and Innovative Materials. In addition to glass, Saint-Gobain also excels with many other materials such as plastics, mortars, gypsum and cast iron.


Innovation as driving force
Since 1665, Saint-Gobain has always been characterised by its ability to invent products which improve its contemporaries' quality of life.
The Group, which is one of the hundred largest industrial companies worldwide, continues to deploy its technological know-how, often in partnership with the most prestigious universities and laboratories.


## PAM, the world leader in ductile iron pipeline systems

The PAM brand has become the global reference in the pipeline world thanks to innovations and the quality of technical solutions. Each year, the Research and Development Centre files more than 50 inventions with INPI, the French National Industrial Property Institute, for products and processes.

- PAM is the largest ductile iron manufacturer in the world (pipes, fittings and accessories).
- For over 150 years, its reputation in the pipe professions has been based on its skills, the reliability and performance of its products.
- With its widespread network, commercial and technical support is available anywhere in the world. PAM's relationship with its clients is based on a true partnership.
- Reputed for the quality of its products, PAM increases the value of its solutions by adding a range of services and undertaking to be responsive in its operations, whether developing projects, during delivery or maintenance.
- A complete range of solutions dedicated to potable water supply, sewerage and evacuation of waste water is available.
- You have the guarantee that European and international standards are respected (SMQ ISO 9001 and ISO 14001 certification and ISO 2531 product certification).

PAM is an expert in equipment for hydraulic networks


30 \% of the products sold by PAM did not exist 5 years ago

#  <br> <br> Ductile iron, an innovative material 

 <br> <br> Ductile iron, an innovative material}

Ductile iron pipelines, with their linings and joints adapted and adaptable to the various ground configurations withstand all the challenges of transport, handling, installation and operation.
Exceptional mechanical properties

| Yield stress, Rp 0.2 | 300 MPa |
| :--- | :--- |
| Tensile strength Rm | 420 MPa |
| Elongation at break, E | $10 \%$ for DN 60 to 1000 |
| Modulus of elasticity | $7 \%$ for DN 1200 to 2000 |
| Thermal coefficient of expansion | 170000 MPa |
| Density | $11 \times 10^{-3} \mathrm{~mm} / \mathrm{m}^{\circ} \mathrm{C}$ |

These characteristics give the pipes the ability to withstand the most demanding mechanical conditions and environmental constraints.


High safety factors

- For a DN 800 pipe, allowable operating pressure (AOP*) reaches 30 bar with a safety factor of 3 (the pipeline withstands up to 3 times this pressure)
- The maximum allowable operating pressure (MAOP **) is 36 bar
- The safety factor is 1.5 for the pipelines (buried pressure pipes) subject to various stresses: earth loads, traffic loads, settlement or small ground movements, accidental overload, etc.
*AOP: the maximum hydrostatic pressure which a component is able to withstand permanently in service
**MAOP: the maximum pressure that a component is capable of withstanding when subjected intermittently to it in service, including water hammer
unctions allow an angular deflection permitting improved resistance to
ground movements, more freedom during installation and fewer fittings.
The junctions are made by inserting one pipe into the next. Watertightness is produced by compression of the elastomer joint
gasket between two metal walls. The gasket between two metal walls. The
contact pressure on the elastomer contact pressure on the elastomer
joints increases as the internal joints increases as the internal
prissur increases making the system
highly reliable in operation.


## $Z$ inglivm

The innovation of the Zinalium ining: life expectancy multiplied
by 3 compared with a traditional lining.


## Applications



DN 40 to 2000 DN 60 to 600 DN 700 to 2000
$\square$

DN 700 to 2000
DN 100 to 600

DN 80 to 500

DN 60 to 2000

|  |  |  |  |  |  |  |  |  |  | DN 100 to 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Flanged joint | Standard joint Express joint Universal joint | Standard joint Express joint Universal joint | IM joint | Standard joint Universal joint Universal joint | Standard joint | Standard joint | Standard joint | Universal joint | Standard joint | Standard joint |
|  | Standard Vi joint Express Vi joint Universal Vi \& Ve joint | $\begin{aligned} & \text { ViLoK joint } \\ & \text { Standard Ve joint } \end{aligned}$ |  | Standard Ve joint Universal Ve joint Pamlock joint |  | Standard Vi joint | Universal Vi joint | Universal Vi \& Ve joint | Universal Vi \& Ve joint | Standard joint |
| metallic cinc (1) + bituminous paint <br> + bituminous paint | ZINALIUM (2) <br> + blue epoxy | $\qquad$ | metallic zinc (1) <br> + Aquacoat | metallic zinc (1) <br> + bituminous paint | metallic zinc (3) + black epoxy paint | metallic zinc (3) + bituminous paint | $\begin{aligned} & \text { Zinalium + poly- } \\ & \text { urethane } \\ & \text { foam } \end{aligned}$ | metallic zinc (1) <br> + bituminous paint | metallic zinc (1) + bituminous paint <br> + bituminous paint | metallic zinc ( 1 ) + mauve epoxy |
| PUR or cement mortar | centrifuged cement mortar | centrifuged high alumina cement mortar | epoxy resin | centrifuged cement mortar | centrifuged high alumina cement mortar | centrifuged cement mortar | centrifuged cement mortar | centrifuged cement mortar | $\begin{aligned} & \text { centrifuged cement } \\ & \text { mortar } \end{aligned}$ | centrifuged cement mortar |
| $\begin{gathered} \hline \text { Standards EN 545, } \\ \text { ISO 2531 } \\ \text { and EN } 598 \end{gathered}$ | $\begin{aligned} & \text { Standards EN } 545 \\ & \text { and ISO } 2531 \end{aligned}$ | $\begin{gathered} \text { Standards EN } 598 \\ \text { and ISO } 7186 \end{gathered}$ | Standards EN 598 and ISO 7186 | Standards EN 545 and I ISO 2531 | $\begin{gathered} \text { Standards EN } 598 \\ \text { and ISO } 7186 \end{gathered}$ | Standards EN 545 and ISO 2531 | $\begin{gathered} \text { Standards EN } 545 \text {, } \\ \text { ISO } 9349 \\ \text { and ISO } 2531 \end{gathered}$ | Standards EN 545 and ISO 2531 | Standard EN 545 | Standard EN 545 |
| EN 545: ductile cast iron pipes, fittings and accessories and their assemblies for water pipelines. Requirements and test methods |  | EN 598: ductile cast iron pipes, fittings and accessories and their assemblies for sewerage. Requirements and test methods |  | ISO 2531: ductile iron pipes, fittings, accessories and their joints for the construction of pipelines. |  | ISO7186: Ductile iron products for sewerage applications. |  | ISO 9349: Preinsulated ductile iron pipes, fittings, accessories and their joints for the construction of pipelines. |  |  |
|  |  | Applications for industry |  |  |  |  |

(1) $200 \mathrm{~g} / \mathrm{m}^{2}$
(2) $400 \mathrm{~g} / \mathrm{m}^{2} \mathrm{ZnAl}$ (3) $130 \mathrm{~g} / \mathrm{m}^{2}$


| Mines |  | Pressurised water networks Abrasive water discharges |
| :---: | :---: | :---: |
| Petrochemical \& chemical industry |  | Pressurised water networks fire protection Abrasive water discharges Municipal castings |
| Iron and steel industry |  | Pressurised water networks Fire protection Recycled water Recycled water Abrasive water Abrasive water discharges Municipal castings |
| Automotive industry |  | Pressurised water networks Fire protection <br> Evacuation of wastewater and rainwater Municipal castings |
| Power plants |  | Pressurised water networks Fire protection Recrcled water Recycled water Coolant circuits <br> Municipal castings |
| Small hydroelectric power plants |  | Pressurised water or penstock pipes Municipal castings |
| Paper mill \& cellulose |  | Pressurised water networks Fire protection Evacuation of wastewater and rainwater Municipal castings |
| Water treatment plants Sewage treatment plants Pumping stations |  | Evacuation of wastewater Pressurised water networks Municipal castings |
| Beverage manufacturing Distilation alcoholic beverages soft drinks | $0$ | Fire protection Municipal castings |
| Sugar refineries \& ethanol production |  | Pressurised water networks Fire protection Evacuation of wastewater and rainwater Municipal castings |
| Winter sports resorts | 0 | Artificial snow |
| Desalination plants \& brine production |  | Brine transport Fire protection |
| Aerodromes \& airports | En | Pressurised water networks Fire protection Evactuation of wastewater and rainwater Municipal castier networks anicipal castings |
| Logistics platforms \& port areas |  | Pressurised water networks Fire protection Evacuation of wastewater and rainwater Municipal castings |
| Leisure zones Amusement parks Leisure parks Golf courses Sports centres |  | Pressurised water networks Fire protection <br> Evacuation of wastewater and rainwater Recycled water Municipal castings |
| Activity centres: hospitals university campuses cultural centres science parks shopping centres |  | Fire protection <br> Refrigerated water networks Evacuation of wastewater and rainvater Municipal castings |



We work with
mifi RIO TINTO, iron mine Australia
6.) VALE, iron and potash mine Nater supply network
6.) ANGLO AMERICAN, nickel mine Brazil

- BHP Billington, copper mine Chile
Water su URAMINAREVA,

2. URAMIN AREVA, uranium mine Namibia
RAG, coal and hard coal mine Herne, Germany
$\checkmark$ SNIM, iron mine Mauritania
Raw water st
SICHUAN MINE, coal mine China
OCP, phosphate min Morocco
Reinforced air valve
(1) VALEINCO (ERAMET), nickel mine
$t=$ LULEÅ iron
$=$ = LULEA, iron mine

More than 4500 km of ductile iron pipelines installed worldwide


## Petrochemical \& chemical industry



Mines

- Mineral deposit operations
- Quarries


Ranges
natural
CLASSIC
potable water supply and
distribution

FM

Potable and raw wate

Abrasive and mine water discharges
ransport of water loaded with solid particles

Fire protection
NATURAL
CLASSIC

INTEGRAL
Ranges

Abrasive water discharges
8
Transport of
solid particles

Municipal castings

INTEGRAL

PAMETIC duct covers
PAMETANCHE manhole cover PAMREX manhole cover TRANSLINEA gratings

We work with
IIELF
Donges, Loire-Atlantique, France
I TOTAL
Gonfreville (76) and Grandpuits (77), France
DUPONT DE NEMOURS Haut-Rhin, France

- ATOCHEM

Carling, Moselle, France
SHELL
Petit-Couronne, Seine-Maritime, France
IEXXON CHEMICAL
= SOLVAY
Bernburg, Germany

- AKZO / HENGELO

Netherlands
Fire network and salt water pumping netwo
4 STATOIL
Denmark
Fire network and wastewater network
Q. BRASKEM

Camaçari, Brazil $\qquad$
e. PETROBRAS refineries Brazil
POINTE NOIRE refinery Congo

- BAYER Chemical Shanghai, China
China Shenhua Coal China Shenhua Coal to Liquid and Chemical Co Yulin, China Evaciation of wastewater



## Iron and steel industry.

- Manufacturers
- Equipment manufacturers

| Pressurised water networks | CLASSIC |
| :--- | :--- | :--- |
| Potable water supply and |  |
| distribution |  |

Automotive industry

We work with
I. SMART

Hambach, France
II RENAULT
Flins / Lardy Test Centre/
Guyancourt Technocentre, France
II PEUGEOT
II TVYOTA
II CITROEN
CITROEN
Valenciennes
Valenciennes, France
Fire network
$=$ FORD
Cologne, Germany
Fire network
$=$ BMW
Dingolfing / Regensburg / Munich,
Germany Germany Fire networks, potable water supply network
VOLKSWAGEN
Wolfsburg, Germany
Potable and fire water supply network
$=$ DAIMLER BENZ
Sindelfingen / Rastatt, Germany
Indistrial process water network,
Industrial process water network,
coolant circuits, fire network and potable water

- PORSCHE

Leipzig, Germany
= AUDI
Ingolstadt, Germany
Industrial process water network
fire network

- JOHN DEERE

Madrid, Spain
(e.) HYUNDAI

Brazil
Fire network
©. RENAULT
São José dos Pinhais, Brazil
©. PEUGEOT
e. VOLKSWAGEN

São Bernardo do Campo, Brazil
DONGFENG MOTOR CORPORATION Shiyan, China
Water supply ne

## - MICHELIN

Clermont-Ferrand, France

## I. VALEO

- GOODYEAR

Germany
Water supply netw
ZF SACHS
Schweinfurt, Germany
Coolant circuit
e. MICHELIN

Itatiaia and Resende, Brazil

## Hydroelectric power stations and small ponerer stations

We work with
I. EDF - La BATHIE SALLESTET hydroelectric power station - Isere, France

Lit LAPPVIK micro power station
4 URKE KRAFTVERK and DITTIELVA KRAFTVERK micro power station KRAFTV

- MARQUART power station Germany
- EGO Elektrizitätsgenossen-schaft Ohlstadt, Germany

RIBEIRA DA PRAIA hydroelectric power station Portugal
t= THISSAVROS hydroelectric power station
Greece
9.) Bocâina micro power station Brazil

More than 100
projects are designed by Saint-Gobain PAM for hydroelectric power stations each year and delivered worldwide.


Applications
Ranges
hydropam

PAMETIC duct covers PAMETANCHE manhole cover PAMREX manhole cover

Paper and cellulose industry.
We work with
II La cellulose des ardennes Belgium
Fire nework
Raw and potable water supply nework
Industrial discharges

I. KIMBERLY CLARK INDUSTRIES Villey, Meurthe-et-Moselle, France | Raw water network |
| :--- |
| nolustial discharges |

Fire network Golbey, Vosges, France ire nework
II AUSSEDAT-REY paper mill Saillat, Haute-Vienne, France
6.) ELDORADO BRASIL Três Lagoas, Brazil
fire neivork
(e) VOTORANTIM CELULOSE E PAPEL Três Lagoas, Brazil
Fire neiwork


## Water treatment

- Sewage treatment plants
- Pumping stations
- Slide valve chambers



## Applications

Ranges

| Pressurised water networks | NATURAL <br> CLASII |
| :--- | :--- | :--- |
| Potable water supply and | CLIAnged parts |
| distribution |  |




## Ethanol \& Sugar refineries

## Beverage manufacturing


we work with

1. COCA-COLA

Paris region, France

- NESTLÉ

France
Refrigerated water networ
I. COGNAC MARTEL distillery Paris region, France
NESTLÉ
Germany
Adelholzener Mineralbrunnen Bad Adelholzen, Germany

WARSTEINER Brewery Germany
Water supply network

- STELLA ARTOIS Brewery Belgium
Q. AMBEV - Brahma brewery and Passo Fundo brewery Brazil
Water 5 Vater supply network
- Distillation
- Alcoholic beverages
- Soft drinks

Applications
Pressurised water network
distrib water supply and
Evacuation of wastewater and rainwater

## Pressure or gravity

Refrigerated water networks Refrigerated water transport and frost protection


Fire protection

Municipal castings


TAG

CLASSIC
ISOPAM

## FM

Ranges
NATURAL CLASSIC Flanged parts

INTEGRAL
PLUVIAL

PAMREX manhole cover PARXESS manhole cover TRANSLINEA gratings PAMETIC duct covers

## Municipal castings

TRANSLINEA glat PAMETIC duct covers

We work with
Iil CONNANTRE sugar refinery Marne, France
Beet washine w
II BAZANCOURT sugar refinery Marne, France
Beet washing w

- SILLERY sugar refinery Marne, France
II. SAINTE-ÉMILIE sugar refinery

Som.
A.V.E. B.E starch works
Haussimont, Marne, France

I SOUPPES-SUR-LOING sugar refinery

ARCIS-SUR-AUBE sugar refinery Aube, France
Beet washing
BRIE CHAMPAGNE ETHANOL Beet washing wat-Marne, France

COSAN

- wazersupay nework

USINA CONQUISTA DO PONTA Mirante do Paranapanema, Brazil

AGRO ENERGIA SANTA LUZIA Nova Alvorada do sul, Brazil
Water suoply network


## Desalination plants

Winter sports resorts

We work with
I. COURCHEVEL

II SERRE-CHEVALIER
B MEGEVE
Li LES ROUSSES
BIIGNES
Bi LES ARCS
1 VAL D'ISĖRE
Q VAL THORENS
HOCHZILLERTAL
Austria

- BESCHN. GERLOS
- VSETIN
+ GSTAAD ROUGEMONT
$+\quad$ Switzerland
$=\underset{\text { SparmIGAL }}{\text { Fpar }}$


We work with
II RHONE POULENC La Madeleine, Meurthe-et-Moselle, France
I. SOLVAY

Dombasle, Meurthe-et-Moselle, France
= SÜDSALZ
Berchtesgaden, Germany
Salt wate t transport

- UMM AL NAR WEST desalination station United Arab Emirates
~ NOUAKCHOTT
desalination plant
Mauritania Mauritania
Sea water trans
- FUERTEVENTURA
desalination plan desalination plant
Canary Islands, Spain Canary Islands, Spain
Sea water transpoort
$\because$ SOLVAY TORRELAVEGA

Spain
Brine evacuation network


## Aerodromes \& airports

Logistics platforms

- Port areas
- Road platforms

We work with
e. AVON (Cosmetics) Logistics platform, Brazil
e. PECÉM - Harbour complex

Brazi

- GADIS - Logistics centre Valladolid, Spain
- ASTILLEROS Shipyard, Spain
Transport of crude oil and sea water
- BREST - Commercial port re, Fance
I. Grand Port Maritime du Havre Seine-Maritime, France
I. M.I.N., RUNGIS Val-de-Marne, France
20, HMNB
Portsmouth, United Kingdom
CHANGI Naval Base
CHANGI
Singapore
PAMEIC dut

|  | Applications <br> Pressurised water networks <br> Potable water supply and <br> distribution |
| :--- | :--- |

We work with
II ADP (Aéroports de Paris) Roissy / Orly, France

II AIRBUS (EADS group)
Service Spécial Bases Aériennes
Service Special Bases Aérienne lle-de-France
Paris, France

- CEPr (Propulsion test centre) Saclay, Essonne, France
I Brétigny-sur-Orge air base Essonne, France

- LUXEMBOURG-FINDEL airport Grand Duchy of Luxembourg
NATO airport
Ramstein, Germany
Potable water networ
$=$ Hamburg airport Germany

2. United Kingdom
PAMEIC duct coves
e. CONGONHAS airport

São Paulo, Brazil
BAIYUN airpor
BAIYUN airpor
Guangzhou, China Guangzhou,
Fire network


## Activity centres

## Leisure zones



We work with
II Disneyland Paris and Parc Walt Disney Studio Marne-la-Vallée, Seine-et-Marne, France
Fire neworke
I. CENTER PARCS Moselle, France
IINSEP
nstitut National du Sport, de l'Expertise et de la Performance, Paris, France
I. STADE De france Paris, France

- UNIVERSAL STUDIOS PortAventura, Spain
Water sundy
- LA DEHESA, VILLANUEVA DE LA CANNADA golf club Madrid, Spain
- BENALMÁDENA golf club Málaga, Spain
- Golf courses
- Amusement parks
- Sports complexes
- Hippodromes
- University campuses
- Shopping centres
- Cultural centres
- Science parks
- Hospitals



Pipes and fittings ranges


FLANGED PARTS
potable water and raw water fresh and mineral (PUR) water wastewater pH 1 to 12


NATURAL
potable water
raw water
soft and mineral water (PUR)


INTEGRAL
wastewater
sandy and abrasive effluents pH 1 to 12

TAG
wastewater
pH 4 to 12


CLASSIC
potable water
raw water
soft and mineral water (PUR)


PLUVIAL
sandy and abrasive effluents pH 4 to 12

FM
raw and potable water

ISOPAM
raw and potable water
wastewater pH 4 to 12

HYDROPAve
HYDROPAM
raw water

PAvag URBITAL
ALPINAL
ALPINAL
pipeline system for artificial snow
(



DN


## Municipal castings

## range

Duct covers PAMETR
Watertight and modular
duct covers with multiple covers
PAMREX
Heavy traffic,
elastomer joint
Hinged
URBAMAX
Heavy traffic
elastomer joint
PAMETANCHE
High watertightness
Locked with 6 bolts
and clamps
TRANSLINEA
For transverse gutters Mechanical
linking
PARXESS
For busy pavements
Cover pressing and locking system

SQUADRA
Square frame
Automatic locking

## Class

B 125
C 250
E 400
F 900

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