OFFSHORE AND LINEPIPE
Your Partner for innovative solutions
STEEL IS OUR WORLD

Steel supports
Steel moves
Steel inspires

Steel is future
voestalpine is a technology and industrial-goods enterprise whose business units boast worldwide leadership in combined material and processing expertise.

With its highest-quality products and systems made of steel and other metals, voestalpine is one of Europe’s leading suppliers to the automotive, household-appliance and oil/gas industries worldwide.
GROUP

- 500 Group companies and locations
- 51,907 employees worldwide
- 13.6 bn in revenue in 2018/19 FY
- 1.6 bn EBITDA in 2018/19 FY

50 Countries
5 Continents
GROUP
SHAREHOLDER STRUCTURE

- Austria: 44%
- Employee shareholding scheme: 14.8%
- North America: 15%
- Rest of Europe: 7.2%
- Scandinavia: 6%
- UK, Ireland: 7%
- Germany: 4%
- Asia: 2%

(as of 2018/19 FY)
GROUP DIVISIONS

Steel
4,887.3 million
Sales (in euros)
35 % share of business volume

High Performance Metals
3,136.3 million
Sales (in euros)
22 % share of business volume

Metal Forming
2,937.4 million
Sales (in euros)
21 % share of business volume

Metal Engineering
3,147.1 million
Sales (in euros)
22 % share of business volume

(as of 2018/19 FY)
Our leadership in quality is put to the test on a daily basis.
## STEEL DIVISION
### DATA AND FACTS

<table>
<thead>
<tr>
<th></th>
<th>2017/18 FY</th>
<th>2018/19 FY</th>
</tr>
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<tbody>
<tr>
<td>Revenue</td>
<td>4,772.7</td>
<td>4,887.3</td>
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<tr>
<td>EBITDA</td>
<td>908.2</td>
<td>653.2</td>
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<tr>
<td>EBITDA margin (%)</td>
<td>19.0</td>
<td>13.4</td>
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<tr>
<td>EBIT</td>
<td>592.9</td>
<td>319.9</td>
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<tr>
<td>EBIT margin (%)</td>
<td>12.4</td>
<td>6.5</td>
</tr>
</tbody>
</table>

- **43** locations worldwide
- **~11,000** employees (full-time equivalent)
- **4.8 million** tons of manufactured end products in 2018/19 FY

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voestalpine Grobblech GmbH
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STEEL DIVISION
CUSTOMER SEGMENTS

- Automotive Industry
- Electrical Industry
- House Industry
- Machinery Industry
- Processing Industry
- Energy
What makes us unique?

R&D and innovation

Certifications

Environment

Awards

Employees
Energy

A heavy plate that maintains its strength and toughness even at extremely low temperatures, toughcore® takes our customers beyond previously insurmountable limits.

R&D at voestalpine makes it possible
voestalpine-GROBBLECH
OUR MESSAGE

» We are a global supplier of high-quality niche products in the energy business.

» We offer innovative solutions for structural steel work, bridges and cranes, based on the technological developments in the energy branch.
OUR OFFER

Our products find their applications in the extreme conditions:

Strength
Toughness
Wear resistance
Corrosion resistance
WE DELIVER TO VARIOUS INDUSTRIES

» Oil- and gas industry
» Pressure vessel and apparatus sector
» Chemical industry and refineries
» Structural steel work and bridges
» Vehicles and crane sector
» Ship building
» Steel service centers and traders
OUR PRODUCTS

» Linepipe and Offshore plates
» Pressure vessel plates and heads
» Clad plates and heads
» High-strength plates
» Wear-resistant plates
» Multi-layer plates
» Special heavy plates
  » Structural steels
  » Fine-grain structural steels
  » Shipbuilding steels
  » Case hardening and Q+T steels
» Chords
OUR BRANDS

- **toughcore®**
  excellent toughness even to the core

- **alform®**
  thermomechanically rolled

- **aldur®**
  quenched & tempered

- **durostat®**
  wear-resistant

- **altrix®**
  multi-layer plate

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voestalpine Grobblech GmbH

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OUR SALES BRANCHES

HVU  Upstream
Wolfgang Leeb
wolfgang.leeb@voestalpine.com

HVD  Downstream
Regina Leidinger
regina.leidinger@voestalpine.com

HVM  Machinery Industry
Jürgen Lechfellner
juergen.lechfellner@voestalpine.com
BRANCH MIX (in tons)

<table>
<thead>
<tr>
<th>Year</th>
<th>Upstream</th>
<th>Downstream</th>
<th>Machinery Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2010</td>
<td>509</td>
<td></td>
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<tr>
<td>FY 2018</td>
<td>509</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2019</td>
<td>509</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2019 FY

- Upstream: 294
- Downstream: 93
- Machinery Industry: 160
New rolling mill:

- Width 4,2 m (unchanged)
- Increased rolling force up to 8,000 tons
- Work roll shifting for improved flatness
- Commissioning in Nov 2015
**toughcore® facility:**

» Extraordinary fine micro-structure in mid-thickness is achieved by using the toughcore® process which is based on TMCP rolling and accelerated cooling with intermediate fast reheating

» Commissioning in October 2016

Video: The manufacturing process
INVESTMENTS UP TO 2020

» New chamber furnace for optimized reheating of clad plate packages before rolling
  » Commissioning: May 2019

» New levelling machine to improve the flatness of clad plates
  » Commissioning: May 2020
OFFSHORE AND LINEPIPE
QUALITY FROM voestalpine

As a provider of quality solutions, we have adapted the ambitious standard of supplying our customers with the best steels and excellent material properties.

Quality begins in our steelmaking plant

» Fully integrated metallurgical facility
» High-quality steel slabs
» Short transport distances inside our dedicated metallurgical facility
» Highest degree of purity
» Best mechanical properties of our steel grades
EXTRAORDINARY REQUIREMENTS CALL FOR EXTRAORDINARY STEEL

» High cleanliness of steel due to LD-process with subsegment metallurgical and vacuum treatment
» High-quality slabs up to 355 mm in thickness
» Minimized center segregation by soft reduction during continuous casting
» Specialization in thermomechanical rolling with accelerated cooling.

Our strengths are our expertise and experience
PRODUCTION SYSTEM

Our state-of-the-art production systems implement the most modern technologies and ensure consistently high quality. We ensure homogeneous technological values in our steels along the entire production chain.

Our production system offers optimal size tolerances, best flatness and perfect plate surface as well as reproducible mechanical-technological properties.
PRODUCTION SYSTEM

» New rolling mill
  » Width 4,2 m
  » Rolling force up to 8,000 to
  » Work roll shifting for improved flatness

» Accelerated cooling line
  » Basis for best TMCP-steels

» World’s strongest hot leveling machine

» New second pusher-type furnace
THERMOMECHANICAL ROLLING

» TMCP – (Thermo-Mechanical-Control-Process) steels

» Thermomechanical rolling leads to a very fine-grained structure, which results in high strength combined with excellent toughness and best formability levels.

1 ACC... accelerated cooled
TMCP – OUR STRENGTH

» TMCP- (Thermo-Mechanical-Control-Process) steels are fine-grained steels with
  » excellent weldability
  » high strength combined with high toughness
  » best formability
  » high reliability in welded structures

» TMCP-Steels are produced with
  » very pure steel (low S-, P-, tramp element level)
  » very low carbon content and low carbon equivalent (CE)
  » micro-alloying
  » high-quality processing during melting, casting, rolling and accelerated cooling
TMCP – CUSTOMER BENEFITS

» Substantial reduction or eliminating of preheating
  » Great savings in manufacturing costs
  » Improved working environment for operators

» Reliable weld joints
  » Virtually no additional repair welding, even without preheating

» High-heat-input welding
  » Major reduction in the number of weld passes
  » Significantly reduced welding costs
  » Substantially shorter manufacturing time

» Easier surface cleaning because scale is thin and homogeneous
New generation of TMCP steel

Heavy plates with finest microstructure even to the core and thus extremely high toughness, made in a completely new and patented process, which cannot be produced on any other production route.

Unique combinations of thickness, strength and excellent toughness as well as best weldability

Higher safety while enhancing the potential for the use of heavy plate - e.g. at very low temperatures, in ultra-deep sea or for design optimization - for very challenging operating conditions.

Cost savings and increased productivity.
toughcore® PROCESS

Conventional TMCP process
Roughening | Finishing

| Roughening | toughcore® | Finishing |

“...finest microstructure, even to the core...”
MICROSTRUCTURE

running production

voestalpine Grobblech GmbH

14.06.2019 | Offshore and linepipe
QUALITY ASSURANCE

» Products, processes and business systems of voestalpine Grobblech GmbH are certified according International Quality Management System Standards, ISO 9001, by Lloyds Register.

» Quality approvals are held from ABS, DNV-GL, TÜV, API and also for a number of specific offshore contracts for operators including Saudi Aramco, Qatar Petroleum, Shell, Exxon Mobil, Total, Chevron and BP.

» We can offer a wide variety of steel grades (including e.g. NORSOK ...) and hold qualifications even for high strength steel grades (e.g. AB FQ70, VL F690 ...)

voestalpine Grobblech GmbH

14.06.2019
HEALTH, SAFETY AND ENVIRONMENT (HSE)

» voestalpine Grobblech has created a work environment that values ...
   » diversity in thought and experience
   » teamwork
   » ethical behavior
   » performance excellence

The HSE management is based on continuous improvement in accordance with international standards, OHSAS 18001, ISO 14001 as well as the EMAS – European Eco Management and Audit Scheme.
BENEFIT FOR OUR CUSTOMER

We are a global supplier of high-quality heavy plates for the energy market and the global leading producer of roll-bonded clad plates.
TAILORED SOLUTIONS IN voestalpine QUALITY

» Linepipe applications
  » Linepipe plates
  » Clad linepipe plates

» Offshore applications
  » Offshore plates for oil & gas
  » Offshore plates for wind energy
  » High-strength plates
    » Shipbuilding steel plates
  » Chords & racks

voestalpine Grobblech GmbH
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LINEPIPE PLATES
LINEPIPE PLATES

Sour service in deep ocean

» More than two million tons of sour-gas-resistant linepipe plates
» Down to a depth of 3,000 meters below the sea
» High-strength steels up to X120
» Extremely low temperatures and strain-based design
» Up to 20 tons per plate, suitable for pipes up to 48 inches
LINEPIPE PLATES

One of the world’s leading producers

» Very tough linepipe plates for thick-walled deep-sea lines
» Specialize in modern thermomechanical rolling technology with accelerated cooling
» Outstanding product quality, reliable service and flexibility
» On-time shipment and delivery
» Extreme conditions: arctic temperatures, extreme pressures in the deep ocean, sour service ...
## LINEPIPE PLATES

### Certifications

<table>
<thead>
<tr>
<th>API 5L</th>
<th>DNV-GL</th>
<th>GOST</th>
<th>ISO 3183</th>
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</thead>
<tbody>
<tr>
<td>BM(S)</td>
<td>SAWL 245 (S)</td>
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<td>L 245M(S)</td>
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<td>X60M(S)</td>
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<td>X65M(S)</td>
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<td>L 690M</td>
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<tr>
<td>X120M</td>
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<td>L 830M</td>
</tr>
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</table>

We supply linepipe plates in accordance with all applicable standards and specifications such as API 5L, ISO 3183, DNV-GL and equivalent to Russian GOST.
LINEPIPE PLATES

Our strengths

» Sour service of pH3 up to X80
» High strength up to X120
» Excellent toughness at low temperatures and best weldability
» High uniform elongation for stain-based design
» Plate length up to 18.7 m and weight up to 20 tons per plate
LINEPIPE PLATES

References Sour Service

Hasbah  IGD Onshore  Lula  Tyra  Shah Gas  ASAB 3
Karan  Manifa  Shaybah Gas  South Stream  Rota 3  Wasit
References Sweet Service

- Kaombo Angola
- Stampede
- Nord Stream Phase 2
- Lucius
- Khurais
- Laggan
- Big Foot
- Jack / St. Malo
- Arkutun Tagi
- Nord Stream Phase 1
- Perdido
- Blind Faith
LINEPIPE PLATES

toughcore® for Linepipe applications

» Higher levels of operational safety
» Increased productivity and capacity of pipeline and auxiliary equipment
» Optimized manufacturing processes
» High strength for decreased weight and cost
» Linepipe plates for extremely low temperatures and the ultra-deep sea
CLAD LINEPIPE PLATES
CLAD LINEPIPE PLATES
Market leader for extreme sour service and corrosion resistant environments

» The world’s leading producer of roll-bonded clad plates with a capacity of 60,000 mt per year
» Our partners process these clad plates into pipes which withstands the highest mechanical stress and dynamic loads – suited to deep-sea applications under highly corrosive conditions
  » 10 km/ month
  » 120 km/ year
CLAD LINEPIPE PLATES

The world’s leading producer

» Material combination X60/65 with nickel-based (alloy 625, 625 mod., 825) or austenitic stainless alloy (316L, 317L ...)

» Metallurgical bonding for cost-effective reeling

» Applications: catenary risers, high-strength linepipes for deep sea applications, Bends and Fittings

» Wide dimensions (pipe diameter, wall thickness) possible
Our strengths

» TMCP clad plates → high strength, excellent toughness combined with best weldability
» More efficient and cost-effective reeling of pipelines than with on-board welding
» Highest corrosion-resistant cladding
» Excellent bonding quality
» Double-sided clad plates
» New material developments for better BDWTT properties (i.e. Alloy 625 mod.)
References

- Zohr
- Cornegliano
- Bahr Essalam
- Arbi / Karan
- Maria
- Kashagan
- Egina
- Kraken
- Ichtys
- Wasit
- Wheatstone
- Julimar
OFFSHORE PLATES FOR OIL & GAS
OFFSHORE PLATES FOR OIL & GAS

Prequalified in arctic regions

» In worldwide use under the harshest conditions
» Prequalified to ensure greater safety
» Arctic steel for extremely low temperatures
» Thick, wide and heavy
  » TMCP plate thicknesses up to 130 mm
  » Plate widths up to 3,850 mm
  » Plate lengths up to 18,700 mm
» Weight up to 28 tons per plate
OFFSHORE PLATES FOR OIL & GAS

Types of platforms

We supply high-quality steel plates for all structures
OFFSHORE PLATES FOR OIL & GAS

Ensure greater safety

» Prequalified material with plate thicknesses up to 101.6 mm and CTOD values down to -40°C for applications in arctic regions. (EN 10225 (including NORSOK) and APIRP2Z)

» Our TMCP offshore plates are characterized by a high degree of toughness and excellent weldability.
## OFFSHORE PLATES FOR OIL & GAS

### Certifications

<table>
<thead>
<tr>
<th>Yield Strength Class (Mpa)</th>
<th>Standard</th>
<th>Thickness (mm)</th>
<th>CVN Test (°C)</th>
<th>CTOD Test (°C)</th>
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<tr>
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<td>-10</td>
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<td>NORSOK M-120 Y50, Y55</td>
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</tbody>
</table>

» Pre-qualified according to EN10225, Annex E / API RP2Z
OFFSHORE PLATES FOR OIL & GAS

References / Projects

- Johan Sverdrup
- ZOHR
- Maersk Culzean
- Total Egina
- Filanowsky
- BP Shah Deniz 2
- Hess Stampede TLP Topside
- WOG – South Timbalier
- Prelude FLNG Project
- Shell Vito Chickasaw
- Total Kaombo
- Total Moho Nord
OFFSHORE PLATES FOR OIL & GAS

toughcore® for offshore structures

» Protect arctic offshore structures against ice loads and collisions
» Optimize the design of components and structures
» Light-weight design to reduce cost of manufacturing, transportation and installation
» Explore harshest environments
OFFSHORE PLATES FOR OIL & GAS

Our customers
OFFSHORE PLATES FOR WIND ENERGY
Extra heavy XL plates

» High-quality plates for efficient power generation
» Larger monopiles require higher unit weights
» Up to 60 tons unit weights by innovative welding
OFFSHORE PLATES FOR WIND ENERGY

Plates for efficient electric power generation

» Toughest materials for offshore wind energy systems
» High-quality plates for the foundations of offshore wind turbine (monopiles, transition pieces, jackets)
» Larger monopiles require higher unit weights in cylindrical and tapered pipe lengths.
OFFSHORE PLATES FOR WIND ENERGY

XL plates with higher unit weights

- Higher unit weights by welding
- Highly qualified welding personnel
- Highly efficient and innovative welding technique
- Plate edge preparation for circular seam welding
- Plate cut to conical shape (ready to use)
- Welded and extra-heavy XL plates
  - TMCP plate thicknesses up to 130 mm
  - Weights up to 60 tons per plate
  - Plate widths up to 3,950 mm
OFFSHORE PLATES FOR WIND ENERGY

References / Project

East Anglia  Beatrice  Arkona  Borkum Riffgrund  Wikinger  Sandbank

Gemini  Baltic 2  Humber Gateway  Butendiek Substation  Global Tech  Walney
OFFSHORE PLATES FOR OIL & GAS

Deliveries in 1,000 tons
HIGH-STRENGTH PLATES
HIGH-STRENGTH PLATES

Weight savings and optimized weldability

» Minimum yield strengths of 700 MPa up to 1100 MPa
» High-strength decreases weight
» TMCP for excellent toughness and optimized weldability
» Specific advantages:
  » Higher stresses
  » Further cost savings in transport, assembly and processing (excellent welding properties)
HIGH-STRENGTH PLATES

Specific advantages

» alform®: low carbon fine-grained TMCP steels with excellent weldability, toughness and cold forming behavior

» aldur®: water-quenched, high-strength fine-grained steels with excellent toughness at low temperatures
SHIPBUILDING STEEL PLATES

Certified for high-strength

» Used in offshore applications, platform superstructures and special ships

» High-strength shipbuilding steels
  » FQ70 up to 101.6 mm (4”)

» Certified by all renowned certification companies (DNV-GL, ABS, ...)
CHORDS & RACKS

High-strength hot-formed special components

» Structural components of jack-up rigs (Chords and thick plates for gear racks)

» High-strength hot-formed in our in-house press shop

» High degree of accuracy to shape
CHORDS & RACKS

Steel grade & Dimensions

» Steel grade:
  » voestalpine special steel aldur 700QL1, S690 QL1, AB EQ/FQ70, VL E/F690

» Dimensions:
  » Chords: Length up to 4,200 mm, wall thickness up to 120 mm
  » Rack steel plates up to 210 mm
Capabilities

FRIEDE & GOLDMAN
LE TOURNEAU
GUSTO
## HIGH-STRENGTH PLATES

### Certifications

<table>
<thead>
<tr>
<th>Yield Strength Class (MPa)</th>
<th>Grade</th>
<th>Delivery Condition</th>
<th>Thickness (mm)</th>
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<tbody>
<tr>
<td>500</td>
<td>NV A/D/E/F500</td>
<td>QT</td>
<td>102</td>
</tr>
<tr>
<td>500</td>
<td>NV A/D/E/F550</td>
<td>QT</td>
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<td>NV A/D/E/F620</td>
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<tr>
<td>500</td>
<td>NV A/D/E/F690</td>
<td>QT</td>
<td>86</td>
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</tbody>
</table>

» High-strength steels according to DNV
## HIGH-STRENGTH PLATES

### Certifications

<table>
<thead>
<tr>
<th>Yield Strength Class (MPa)</th>
<th>Grade</th>
<th>Delivery Condition</th>
<th>Thickness (mm)</th>
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<td>690</td>
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<td>QT, TMCP</td>
<td>102, 50,8</td>
</tr>
</tbody>
</table>

- High-strength steels according to ABS
- All shipbuilding steel plates according to ABS, BV, DNV-GL and LRS.
WE TALK SOLUTIONS

Progress through R&D

» Continual product and process development
» Innovative solutions for products and processes
» Independent and fully accredited testing facility on site
» Prequalification of offshore structural steels in our own labs
» Simulations of material performance of weldability, deformation and edging behavior, fatigue tests and fracture mechanics
» Consultation in the fields of welding and processing
WE TALK SOLUTIONS

A unique logistics package

» Partnerships with our clients and customers
» Reliable and flexible delivery performance
» Professional project management ensuring successful delivery of complex orders
» Dedicated mill-based project management team for order management
» Complete project documentation package (inspection and testing plan, manufacturing specifications, ultrasonic testing procedures)
» Prompt reaction to inquiries
» Web-based customer service center with customer access to order confirmations, invoices, test certifications and order status
WE TALK SOLUTIONS

A strong partnership

» Close collaboration with our Group companies in order to create unique expertise and the technological leadership of our products in the energy sector

» For more information about energy-related products supplied by the voestalpine Group, please also visit:
  » voestalpine Böhler Welding GmbH
     www.bohlerweldinggroup.com
  » voestalpine Tubulars GmbH und Co KG
     www.voestalpine.com/tubulars
  » voestalpine Austria Draht GmbH
     www.voestalpine.com/austriadraht
OFFSHORE & LINEPIPE

Our partners
CONTACT

Professional sales personnel

» Wolfgang Leeb (Head of Sales Branche Upstream)
  wolfgang.leeb@voestalpine.com

» Michael Pelzguter (Linepipe / Offshore)
  michael.pelzguter@voestalpine.com

» Andreas Mairhofer (Linepipe / Offshore)
  andreas.mairhofer@voestalpine.com

» Wolfgang Friesacher (Linepipe / Offshore)
  wolfgang.friesacher@voestalpine.com

» Christina Landerl (Linepipe / Offshore)
  christina.landerl@voestalpine.com
BACK UP
Certificate of Authority to use the Official API Monogram
License Number: 2H-0015

The American Petroleum Institute hereby grants to

VOESTALPINE GROBBLECH GMBH
Voestalpine Strasse 3
Linz, Upper Austria
Austria

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and API-2H
and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 2H-0015

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Grade 50 Steel Plate and Grade 42 Steel Plate

QMS Exclusions: Design and Development, Servicing, Customer Property

Effective Date: MAY 9, 2017
Expiration Date: MAY 9, 2020

To verify the authenticity of this license, go to www.api.org/compositeslist.

Lisa Salley
Vice President, API Global Industry Services

voestalpine Grobblech GmbH
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CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

voestalpine Grobblech GmbH
voestalpine-Straße 3, 4020 Linz
Austria

has been approved by Lloyd’s Register Quality Assurance to the following Quality Management System Standards:

ISO 9001:2015

The Quality Management System is applicable to:

Design and development, manufacturing and distribution and sale of: heavy plates, clad plates, multi-layer plates, plate cuttings, plate pressings.

This certificate forms part of the approval identified by certificate number VNA0005063.

Approval Certificate No: VNA0005063-10/E

Original Approval: 08 October 1999
Current Certificate: 19 October 2017
Certificate Expiry: 18 October 2020

Issued by: Lloyd’s Register EMG & Ruderfeusung Wien
For and on behalf of: Lloyd’s Register Quality Assurance Limited

voestalpine Grobblech GmbH

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CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

voestalpine Grobblech GmbH
voestalpine-Straße 3, 4020 Linz
Austria

has been approved by Lloyd’s Register Quality Assurance to the following Environmental Management System Standard:

ISO 14001:2015

The Environmental Management System is applicable to:

Development, manufacturing and distribution and sale of: heavy plates, clad plates, multi-layer plates, plate cuttings, plate pressings.

This certificate forms part of the approval identified by certificate number VMA0005063.

Approval
Certificate No: VMA0005063-02/JE
Original Approval: 15 October 1999
Current Certificate: 19 October 2017
Certificate Expiry: 18 October 2020

Issued by: Lloyd’s Register QA Niederlassung Wien
For and on behalf of: Lloyd’s Register Quality Assurance Limited

voestalpine Grobblech GmbH
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Corporate principles

Striving the right balance between productivity, quality, safety and the environment is our key to remaining “One step ahead.”

Issued 17.06.2013

The voestalpine group, toward leadership in quality, technology and profits in the European steelmaking industry and has taken the challenge to combine growth and competitiveness with ecological and social responsibility. The integrated management system for quality, safety, the environment makes a valuable contribution to the achievement of these objectives, which is why the management board has adopted the following principles:

- **Customer orientation**
  - We listen to our customers, not as a matter of course, but that there is real demand for our products and services. For the sustainableness of our customer satisfaction.

- **Innovation and continuous improvement**
  - We are not satisfied with what we have — but always further improving. Innovation and continuous improvement are the prerequisites for sustained success and sustainable market position.

- **Employee development**
  - Competent and motivated employees are the most important factors in our company. This is why we ensure the appropriate training and development of our staff members.

- **Objectives and figures (measurable success)**
  - The company’s objectives and effective programming of the same are implementable in our strategic plan, figures show us whether we are on course or need to take corrective measures.

- **Risk management**
  - The realisation of opportunities and risks that can either promote or endanger the growth of corporate value is an important management task and the basic condition of risk assessment.

- **Safety and health**
  - The company and the employees are mutually responsible for safety and health. This is why we create safe places of work for all our employees. Providing safe and healthy workplace is both a task and a goal for the future.

- **Environment protection**
  - We strive for a sustainable use of natural resources and energy and the preservation of nature is beneficial to the environment in terms of higher levels of performance for our customers. We also invest in new development work.

- **Company and partnerships**
  - The voestalpine group is a responsible for our climate change. Our communications and long-term partnerships with our customers and partners are seen as an essential pillar of our strategy.
CERTIFICATE OF REGISTRATION
voestalpine Grobblech GmbH
4020 Linz

This organisation has implemented an environmental management system according to Regulation (EC) No 1221/2009 of the European parliament and of the council of 23 November 2009 in order to continuously improve its environmental performance. It regularly publishes its environmental statement, but the environmental management system and the environmental statement certified by an accredited independent environmental verifier, appear in the list of registered organisations and therefore may use the EMAS logo.

Valid until October 2019

VIENNA, JANUARY 2017