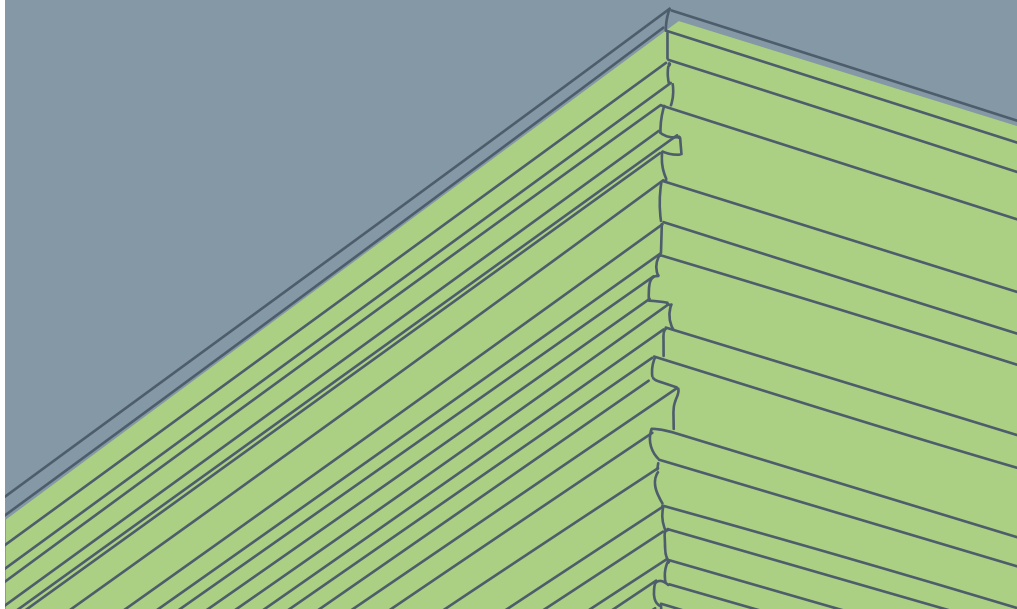


# Heavy steel plate from stock and steel services

The supply capabilities of Dillinger Group's steel service centers and plate processing services ex mill



# We are Dillinger

## We are Pure Steel+

### Steel is the future

Steel is unique: Its strength, elasticity and processing properties enable a wide range of applications and impressive constructions. Its 100% recyclability makes it unbeatable when it comes to sustainability. As a reliable partner to our customers, we design excellent products for key industries such as steel construction, mechanical engineering, and the energy sector. Our steel plates are already accelerating the energy transition – in offshore wind turbines and in storage and solar power plants.

### Pure future

Our aim is to ensure a sustainable future today as well as tomorrow. We are committed to achieving carbon-neutrality by 2045 and are actively accelerating the development and use of technologies such as hydrogen and electric steel production. Our decarbonization project Power4Steel is an important milestone in this regard and is paving the way for a climate-neutral tomorrow. We already offer carbon-reduced heavy plate under the D-PURE+ label, and we will be producing carbon-reduced steel on the new DRI-EAF production route starting in 2027/28.

### Pure quality

At Dillinger, the entire manufacturing process – from research to steel production to the rolling mill – is focused solely on the heavy plate product. This specialization gives us unparalleled expertise, which we use to benefit our customers. We use our knowledge, the latest technology and state-of-the-art AI applications to produce our steel plate to a consistently high quality and to advance the development of our products and services. Dillinger offers an incomparable product portfolio with more than 2,000 different types of steel and an impressive range of dimensions. Personalized customer advice and an increasingly digital range of services perfectly complete our range of services.

### Pure commitment

We take responsibility together and for each other. For our employees, our environment, our products, and our future. Our cooperation is defined by partnership and a culture of appreciation. We are the backbone of a reliable power supply and secure infrastructure. Inquisitive and open-minded, flexible and focused on solutions – we are creating the future for generations to come. We are “Made in Europe” – and prove our value worldwide.

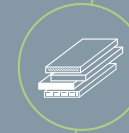
# Dillinger at a glance



About **340** years of experience



Expert advice for more than **10** diverse fields of application



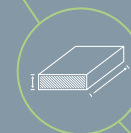
Over **2,000** different grades



More than **200** international approvals, certificates and material qualifications



Plate weight up to **52 t**



Heavy plates up to **28 m** length and **500 mm** thickness

# Our heavy plate. Your project.

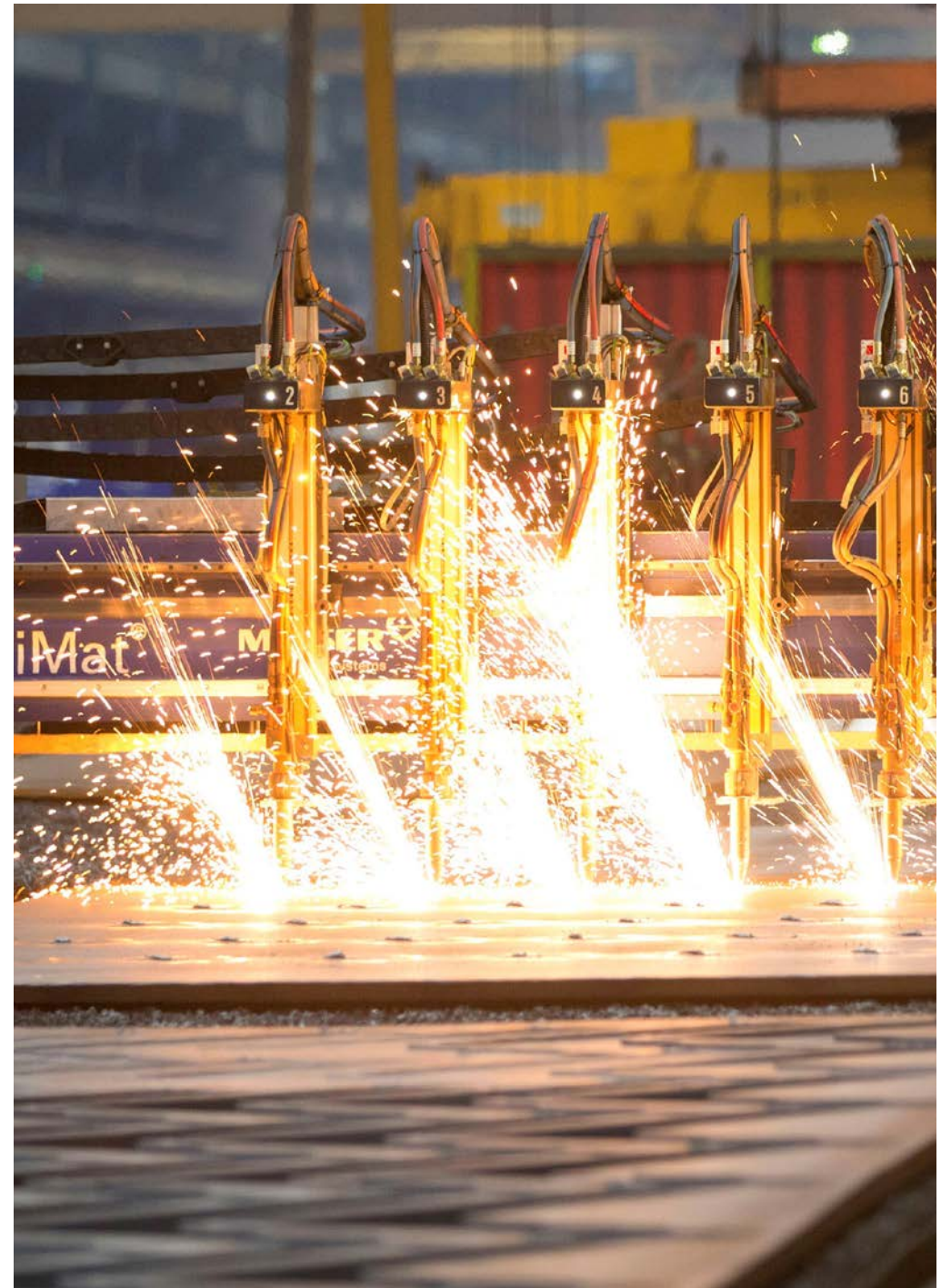
**Not only ex mill, but also ex stock,  
to assure fast delivery**

Dillinger's steel service centers can be found, among others, in Germany, the Netherlands and the UAE and hold stocks totalling more than 150,000 t of heavy plate.

The stocks operated by Ancofer Stahlhandel, Jebens, AncoferWaldram Steelplates and Dillinger Middle East supply an impressively wide range of grades:

- Not just standard plate, but also special grade for offshore applications, pressure vessel fabrication, structural steel engineering and heavy machinery.
- Not only in standard dimensions but also in plate thicknesses up to above 400 mm and plate widths of 4,000 mm and more.

The following information spotlights special heavy plate products produced by Dillinger and available from stock as well as our services in heavy plate processing ex works and at the steel service centers.



# Steel services ex mill

Dillinger is more than just your heavy plate supplier. Indeed, we offer our customers a wide range of plate processing services in addition to our regular plate business.

The benefit of these services is obvious – the combination of our know-how in heavy plate with the heavy-duty fabrication equipment at our plant ideally complements the supply chain for your prefabricated parts.

Ready flame-cut parts – with a focus on heavy and thick components – assure multiple benefits for the customer. Optimized logistic, scrap handling and plate usage are only some examples of saving costs and enhancing competitiveness.

Dillinger will deliver to you perfectly processed plates cut precisely to size whether your needs include large-format cut-to-size plates, chord plates, press frames, flange rings, jack up racks or tube sheets for container construction – to mention only a few possibilities.

Our close links with Dillinger's steel service centers also enable us to combine ex stock and ex mill deliveries to fulfill urgent orders. A selection of our flame cutting possibilities is shown in the following tables, however please do not hesitate to contact us for each enquiry for individual review.

## Possibilities ex mill for flame-cut parts

Cut-to-shape-plates	min.	max.
Thickness	40 mm	450 mm
Width	1,000 mm	5,200 mm
Length	2,000 mm	25,000 mm
Unit weight		45 t
Order volume	Approx. 20 t	To be agreed
Tolerances	According to EN ISO 9013-442, other tolerances upon request	
Note	Cut-to-shape plates in smaller sizes may be possible upon request	

Chord plates	min.	max.
Thickness	40 mm	250 mm
Width	250 mm	1,000 mm
Length	4,000 mm	20,000 mm
Unit weight / surface	1 m <sup>2</sup>	45 t
Order volume	Approx. 20 t	To be agreed
Tolerances	According to EN ISO 9013-442, other tolerances upon request	

Edge prepared plates by milling are also part of the offered services. This saves our customers valuable time, cutting costs and enhancing competitiveness thanks to fewer welds and less welding complexity. The benefits compared to simple flame-cut edges include the absence of excess hardening on the

weld edges and the ability to achieve narrower width, length and angular tolerances.

Within the conditions below, Dillinger supplies a wide range of weld edges, extending from standard I-edge to double-U and double-V.

#### Possibilities ex mill for edge prepared plates by milling

Milling	min.	max.
Thickness	30 mm	160 mm
Width	1,350 mm	5,000 mm
Length	4,000 mm	25,000 mm
Unit weight	Approx. 10 t	45 t
Order volume	Approx. 20 t	Capacities to be checked
Tolerances for dimensions	Width	± 2.0 mm
	Length	± 2.0 mm
	Difference between diagonals	≤ 3.0 mm
Cut face quality	ISO 1302-N7/N8	
Details of edge preparation	Welding types and tolerances have to be agreed.	



Discover the Dillinger plate processing services ex mill at:

[www.dillinger.de](http://www.dillinger.de)



Our German stockholder Ancofer Stahlhandel disposes of a large selection of heavy plate and flame-cut parts, backed up by a range of fabrication services.

Ancofer Stahlhandel is universally acclaimed as a specialist in heavy plate, and supplies a large range of steels in diverse dimensions – not only standard steel products, but also plate thicknesses

up to 250 mm, lengths up to 16,000 mm and widths up to 4,000 mm.

The Ancofer Stahlhandel flame-cutting shop is one of Germany's largest, most experienced and most productive. Decades of know-how, highly trained and capable staff, plus modern equipment, assure perfect results and optimum delivery times.



View the complete Ancofer range at:

[www.ancofer.de](http://www.ancofer.de)

Grade	Designation	Standard	Thickness	Width
<b>Pressure vessel steel</b>				
16Mo3	Non-alloy and alloy steels with specified elevated temperature properties	EN 10028-2	up to 100 mm	up to 3,000 mm
P265GH			up to 250 mm	up to 4,000 mm also in width of 2,250 mm, 2,750 mm, 3,250 mm and 3,500 mm
P275NH	Weldable fine grained steels, normalized	up to 150 mm		
P355NL2		up to 250 mm		
SA516 Grade 60/70	Carbon steel for moderate and lower temperature service	ASME 516/M	up to 250 mm	up to 3,000 mm
P460NL2	Weldable fine grained steels, normalized	EN 10028-3	8 to 150 mm	
<b>Construction steel</b>				
S355J2+N	Structural steel	EN 10025-2	up to 250 mm	up to 4,000 mm
S355K2+N			up to 250 mm	
S355NL	Normalized fine grained steel	EN 10025-3	up to 250 mm	up to 3,050 mm
S355M/ML	Thermomechanically rolled fine grained steel	EN 10025-4	up to 120 mm	
S460M/ML			up to 100 mm	
S460NL	Normalized fine grained steel	EN 10025-3	8 to 150 mm	up to 3,000 mm
S355J2+N	Acc. to Deutsche Bahn rules with weld bend test (Aufschweißbiegeversuch)	DBS 918002-02	8 to 120 mm	up to 4,000 mm
<b>High strength steel</b>				
DILLIMAX 690 E	S690 with Charpy at -60 °C	EN 10025-6	8 to 250 mm	up to 3,000 mm
DILLIMAX 890 T	High strength steel S890		8 to 120 mm	
DILLIMAX 965 T	High strength steel S960			
<b>Wear resistant steel</b>				
DILLIDUR 325 L	Air hardened 325 HB		8 to 100 mm	up to 2,000 mm
DILLIDUR IMPACT	340 HB grade with high impact toughness at -40 °C		50 to 150 mm	up to 2,500 mm
DILLIDUR 400	Water quenched 400 HB		8 to 150 mm	up to 3,000 mm
DILLIDUR 450	Water quenched 450 HB		8 to 80 mm	
DILLIDUR 500	Water quenched 500 HB		8 to 100 mm	
DILLIDUR 550	Water quenched 550 HB		10 to 40 mm	up to 2,000 mm

Our German subsidiary Jebens is dedicated to supplying thick and heavy plates and profiled slabs, heavy machined oxy-cut parts, and fully prefabricated, welded and painted steel components.

Jebens stocks a large range of thick steel plates and provides various methods to produce ready to install welded components.

The company's all-round production capabilities make it a highly popular solution partner for plates and compo-

nents with up to 160 t in weight. Thicknesses ranging from 8 to 750 mm, widths up to 4,000 mm and lengths up to 19,300 mm permit a highly efficient production of flame cut parts. Certified welders and the necessary manufacturing qualifications enable the production of high-quality, ready-to-install components. Jebens relies on a strong partner network for further processing and larger machining dimensions.

Grade	Designation	Standard	Thickness	Width
<b>Construction steel</b>				
S355J2+N	Structural steel	EN 10025-2	up to 410 mm	up to 4,000 mm
S355K2+N				up to 3,500 mm
C45	Non-alloy steels for quenching and tempering	EN 10083-2 (withdrawn) / EN ISO 683-1	10 to 210 mm	
42CrMo4	Alloy steels for quenching and tempering	EN 10083-3 (withdrawn) / EN ISO 683-2	20 to 210 mm	
16MnCr5	Case-hardening steels	EN 10084 (withdrawn) / EN ISO 683-3	12 to 200 mm	
S690QL1	High strength steel	EN 10025-6	8 to 300 mm	
<b>Profiled slabs</b>				
In accordance with chemical composition for S235 to S355			up to 750 mm	
Material for counter weights			up to 250 mm	

#### Thermal cutting (10 cutting tables)

Thickness range	up to 1,100 mm
Width up to	5,000 mm
Length up to	19,300 mm
Max. item weight	55 t

#### Chamfering robots

Cutting length	up to 400 mm
Width up to	2,200 mm
Length up to	8,500 mm
Max. item weight	20 t

#### Chamfering with straight edge

Cutting length	1,000 mm
Width up to	5,000 mm
Length up to	19,300 mm
Max. item weight	55 t

#### Straightening

Straightening press	Acc. to DIN specifications Acc. to customer specifications pressure	3,500 kN
Flame straightening	Controlled straightening of thick plates	

#### Heat treatment

	Normalizing	Vibration relaxing
Width	3,500 mm	
Length	10,500 mm	
Height	2,500 mm	
Max. item weight	40 t	160 t (no limit in length and width)

### Surface treatment (shot blasting and painting)

Continuous type shot blasting machine	Width up to	2,700 mm
Manual blasting booth	Max. filling weight	100 t

### Mobile blasting system

Painting booths	2 solvent- and water-based	1 standard
Width	5,000 mm	5,800 mm
Length	9,000 mm	11,800 mm
Height	2,500 mm	3,800 mm
Max. item weight	40 t	160 t

### Machining (milling and drilling)

	Juaristi	Soraluce
Max. X axis	7,000 mm	3,000 mm
Max. Y axis	2,900 mm	1,300 mm
Max. Z axis	1,300 mm	1,300 mm
Max. item weight	16 t	10 t

### Welding

MIG / MAG / submerged arc welding facilities

Welding tilt and turn table	Max. item weight	160 t
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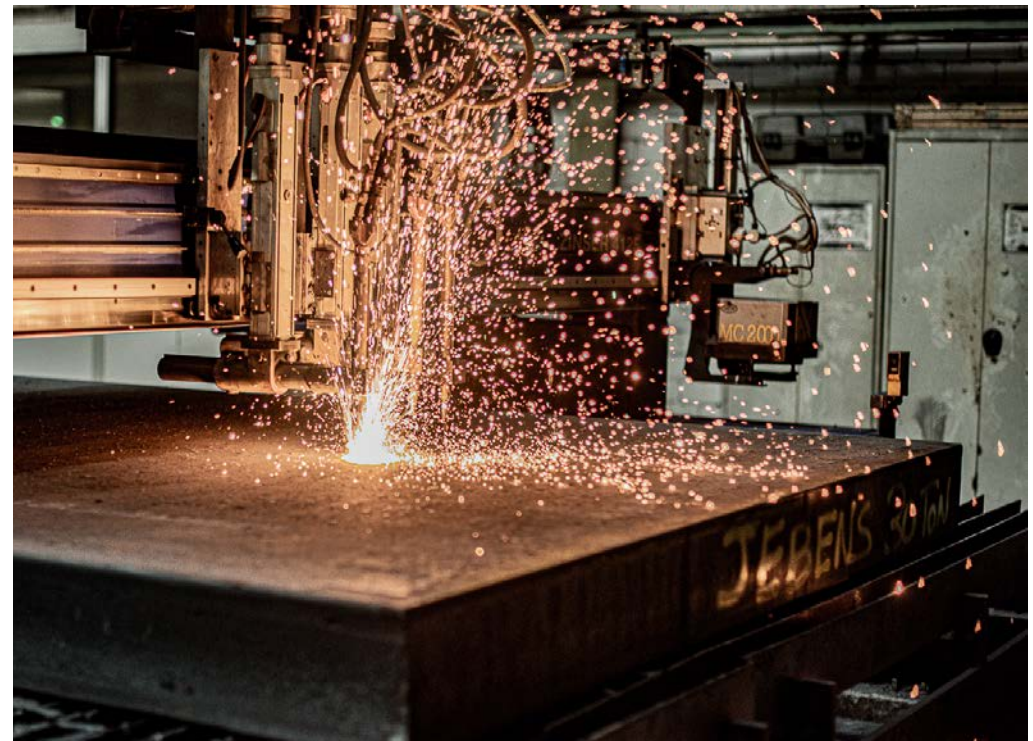
### Quality and certifications

- Manufacturing qualification in acc. with EN 1090-2 EXC4
- Certified welders acc. to ISO 9606-1 up to high strength steels grade S960
- Certification in acc. with the ISO 3834-2:2005 standards



View the complete Jebens range at:

[www.jebens.de](http://www.jebens.de)





AncoferWaldram Steelplates, based in the Netherlands, is a stock-holding wholesaler and steel service center, specialized in the supply and cutting of heavy plates.

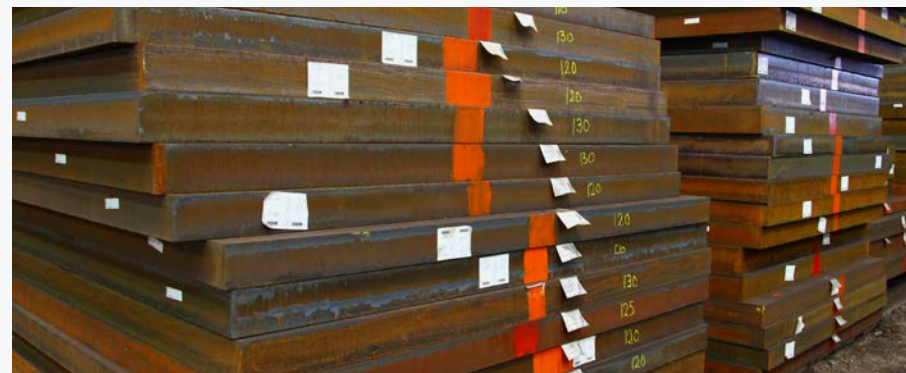
A stock of more than 50,000 t of heavy carbon steel plates, combined with its sophisticated profiling equipment, gives

AncoferWaldram Steelplates the decisive lead in experience, product range and customer service.

AncoferWaldram Steelplates holds a large stock of plates for offshore and marine applications, and also structural, pressure vessel and other grades.

Grade	Designation	Standard	Thickness	Width
<b>Pressure vessel</b>				
P355NL2 SA516 Grade 70	Normalized fine grained steel	EN 10028-3/ ASME 516/M	up to 250 mm	up to 3,000 mm
DICREST®5 SA516 Grade 60/65/70	Hydrogen induced cracking (HIC) resistant plates	ASME 516/M	up to 120 mm	
<b>Construction steel</b>				
S355J2+N S355K2+N S355K2+Z35	Structural steel	EN 10025-2	up to 300 mm	up to 3,000 mm
S355NL			up to 250 mm	
S460NL + Z35 + US (S3/E4)	Normalized fine grained steel	EN 10025-3	50 to 160 mm	
S355M/ML	Thermomechanically rolled fine grained steel	EN 10025-4	up to 130 mm	up to 3,050 mm
S460M/ML			up to 150 mm	
<b>Steel for marine applications</b>				
DNV: NV D36 and NV E36 + Z35	Structural steel	DNV rules	up to 250 mm	up to 3,000 mm
LRS: Grade A, DH36 and EH36 + Z35		Lloyd's rules	up to 220 mm	
<b>Offshore</b>				
S355MLO / MDS Y20	Offshore grades	EN 10225-1, NORSOK M120/Y20	up to 130 mm	up to 3,050 mm
S355NLO / MDS Y20			110 to 200 mm	
S420MLO / MDS Y30	Offshore grades	EN 10225-1, NORSOK M120/Y30	up to 100 mm	up to 3,050 mm
S460MLO / MDS Y40			EN 10225-1, NORSOK M120/Y40	

Grade	Designation	Standard	Thickness	Width
<b>High strength steel</b>				
DILLIMAX 690 T/E	S690 with Charpy at -40 °C / -60 °C	EN 10025-6	up to 250 mm	up to 3,000 mm
DILLIMAX 690 E + Z35 + US (S3/E4)	With Z35 and maximum US requirements		15 to 150 mm	
<b>Wear resistant steel</b>				
DILLIDUR IMPACT	340 HB grade with high impact toughness at -40 °C		50 to 150 mm	up to 2,500 mm
DILLIDUR 400	Water quenched 400 HB		up to 150 mm	
DILLIDUR 450	Water quenched 450 HB			up to 3,000 mm
DILLIDUR 500	Water quenched 500 HB		up to 100 mm	



View the complete Ancofer  
Waldram Steelplates range at:

[www.ancoferwaldram.com](http://www.ancoferwaldram.com)

Dillinger Middle East in Dubai is Dillinger's sales agency for the whole Middle East region and the leading supplier for heavy plates from stock to the Middle East, Indian subcontinent, Africa as well as the Far East.

Dillinger Middle East offers an extensive range of high-quality and just-in-time steel plates for pressure vessel, shipbuilding, offshore, structural engineering, pipeline, mining and construction equipment applications.

A stock of permanently more than 25,000 t of heavy steel plates in various grades and up to 290 mm thick plates is available at any time at the Jebel Ali, U.A.E facility which has been in operation since 1999.

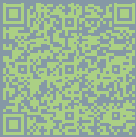
An experienced and qualified team of professionals provides constant technical support and continuous customer care.



View the complete Dillinger Middle East range at:

[www.dillingermiddleeast.com](http://www.dillingermiddleeast.com)

Grade	Designation	Standard	Thickness
<b>Pressure vessel</b>			
DICREST®5 SA516 Grade 60/65/70	Hydrogen induced cracking (HIC) resistant plates	ASTM A516M/ASME IIA:2021	10 to 80 mm
SA516 Grade 60/65/70	Normalized fine grained steels	ASTM A516M/ASME IIA:2021	6 to 200 mm
A537 Cl. 1	Normalized steel	ASTM A537M	10 to 100 mm
SA387-11-2	Alloy steel	ASTM A387M	8 to 80 mm
<b>Construction steel</b>			
S355J2+N S355K2+N	Structural steel	EN 10025-2	10 to 290 mm
S460ML	Thermomechanically (TMCP) rolled fine grained steel	EN 10025-4	8 to 150 mm
<b>Marine applications</b>			
ABS:AH/DH/EH36	Structural steel	ABS codes/rules	10 to 80 mm
<b>Offshore</b>			
API 2H-50/ S355NLO (former S355G8/ G10+N)	Offshore grade	API 2H / EN 10225-1	10 to 100 mm
API 2W-50/ S355MLO (former S355G8/ G10+M)		API 2W / EN 10225-1	10 to 70 mm
S420MLO S460 MLO		EN 10225-1	10 to 100 mm
<b>High strength steel</b>			
DILLIMAX 690 T S690QL A514 Grade B	S690 with Charpy at -40 °C	EN 10025-6 ASTM A514M	8 to 200 mm
<b>Wear resistant steel, shot blasted and primered</b>			
DILLIDUR 400	Water quenched 400 HB		
DILLIDUR 450	Water quenched 450 HB	-	10 to 100 mm
DILLIDUR 500	Water quenched 500 HB		



## Imprint

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