

SEALIUM ® PLATES (5383 H116)

Thickness (mm)	2000x6000
4	●
5	●
6	●
7	●
8	●
10	●
12	●

All of our plates are Bureau Veritas certified.



For any other sizes, thicknesses and certifications, do not hesitate to contact us.

SEALIUM ® PLATES (5383 H116)

Sealium® optimises the overall productivity of shipbuilders, and the performance of vessels in general, as it makes them more robust, safer and user-friendly.

In just a few years, Sealium® has become the international industry reference for fast vessels.

APPLICATIONS

- Sealium® may be used wherever a stronger welded aluminium structure is desired, from hulls to superstructures.
- Smaller boat (< 50m) benefit from improved scantlings, which translate into structural weight savings on patrol craft, increased strength on workboats or added interior space in luxury yachts.
- Larger vessels (> 50m) profit from the increased strength and improved fatigue behaviour of Sealium®.

CORROSION RESISTANCE

- Plates made of Sealium® marine grade aluminium alloy offer a guarantee of intergranular and exfoliation corrosion resistance for severe marine applications as described in ASTM B928 (marine hull construction or marine applications where frequent or constant direct contact with sea water is expected).
- Accelerated tests and marine exposure (air and immersion) as well as experience have proven the long term corrosion resistance of Sealium®.
- Sealium® offers a better mechanical resistance on welded components than standard alloy 5083 with a good or better corrosion resistance.

SEALIUM ® PLATES (5383 H116)

ADVANTAGES

- 15% higher welded yield strength than standard 5083 alloy.
- Increased margin of safety from same scantlings.
- Significant weight savings from optimized scantlings.
- Proven improved corrosion resistance.
- Increased fatigue strength.
- Formability: same cutting, bending and shaping properties as 5083 alloy.
- Welding: no change in welding procedure, consumables or heat induced deformation.
- Greater recycling value for the entire Sealium® welded assembly.
- Sealium® plates have been approved by the major classification societies: ABS, BV, DNV, GL, LR, Class NK, RINA.

PLATES FOR MARINE APPLICATION

5083 H111 ●

5083 H321 ●

Thickness (mm)	2000x4000	2000x6000	2000x8000	2500x6000	2500x8000
3	●	● ●			
4	●	● ●		● ●	●
5	●	● ●	●	● ●	●
6	●	● ●	●	● ●	●
7		● ●	●	●	
8	●	● ●	●	● ●	●
10		● ●	●	●	●
12		● ●		●	
15		● ●		●	
16		●			
20	●	●			
25	●	●			
30	●	●			
35		●			
40	●	●			

All of our plates are Bureau Veritas and/or Lloyd Register certified.



ALMET MARINE

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STANDARD PLATES

PLATES

5754 H111



5086 H111



5083 H111



Thickness (mm)	1000x2000	1250x2500	1500x3000
3			
4			
5			
6			
8			
10			
12			
15			
16			
20			
25			
30			
35			
40			
45			
50			



STANDARD PLATES

5 TREAD PLATES

5754 H114 ●

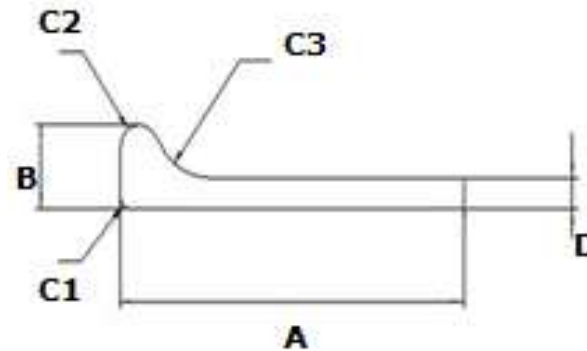
5086 H114 ●



Thickness (mm)	1000x2000	1250x2500	1500x3000
1,5/2	● ●		
2/3,5	●	● ●	● ●
3/4,5	● ●	● ●	● ●
4/5,5	● ●	● ●	● ●
5/6,5	●	●	●
5,5/7		●	●

SEALIUM ® EXTRUSIONS (5383 H112)

BULB BARS

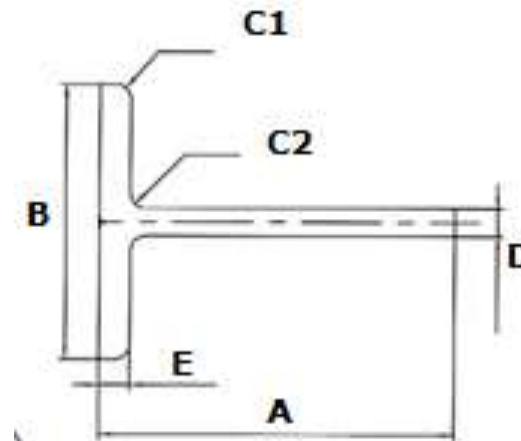


Sections (mm)	40x4	50x4,5	60x4,8	70x5	80x5	90x5,5	100x5,5	120x6
A	40	50	60	70	80	90	100	120
B	8,0	10,0	12,0	14,0	16,6	18,0	21,0	30,0
C1	R2	R2	R2	R2	R2	R2	R2	R2
C2	R4	R4	R4	R4	R4	R4	R4	R3
C3	R6	R10	R10	R12	R14	R16	R16	R2
D	4,0	4,5	4,8	5,0	5,0	5,5	5,5	6,0
Theoretical Weight Kgs/M	0,50	0,72	0,95	1,15	1,37	1,66	1,66	2,65

These extrusions are offered in 6 meter lengths and are Bureau Veritas certified.

SEALIUM ® EXTRUSIONS (5383 H112)

« T » PROFILES



Sections (mm)	40x4	50x4,5	60x4,8	70x5	80x5	90x5,5	100x5,5	120x6
A	40	50	60	70	80	90	100	120
B	8,0	10,0	12,0	14,0	16,6	18,0	21,0	30,0
E	R2	R2	R2	R2	R2	R2	R2	R2
C1	R4	R4	R4	R4	R4	R4	R4	R3
C2	R6	R10	R10	R12	R14	R16	R16	R2
D	4,0	4,5	4,8	5,0	5,0	5,5	5,5	6,0
Theoretical Weight Kgs/M	0,50	0,72	0,95	1,15	1,37	1,66	1,66	2,65

These extrusions are offered in 6 meter lengths and are Bureau Veritas certified.

SEALIUM ® EXTRUSIONS(5383 H112)

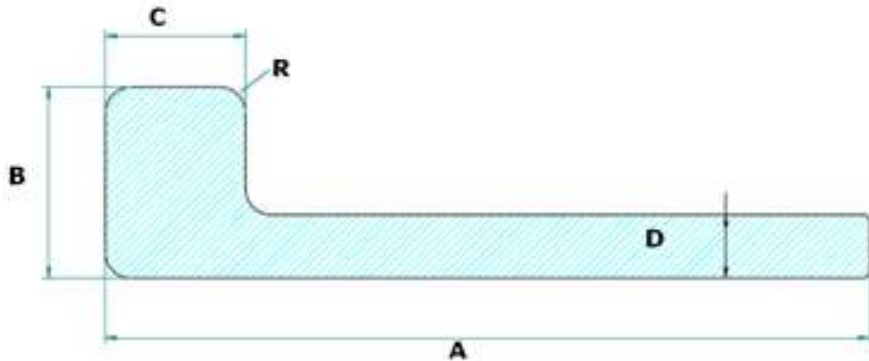
With best advantages specifically for aluminium designers, builders, operators and owners of modern technically advanced light marine crafts, Sealium® extrusions offer new ways to:

- Reduce total costs of metallic hull structure (after assembling),
- Radically improve vessel performance with the best available mechanical and corrosion resistance.
- Reduce weight and increase interior space.

ADVANTAGES

- Sealium® extrusions combine the best available aluminium alloy for marine applications with optimised section designs.
- Sealium® extrusions are to be used when a stronger aluminium structure is required, and whenever weight reduction or increased interior space are crucial.
- Sealium® extrusions perform best when used with Sealium® sheets and plates to give the best overall structural performance from same alloy construction.
- Best strength available for marine applications (i.e 26% higher welded Yield Stress than 6082).
- Shapes and dimensions have been specially designed to offer naval architects and boat builders new perspectives with optimised shapes to provide the best balance between highest section modulus, lowest weight and smallest dimensions.
- Improved fatigue behavior.
- Greater recycling value for the entire Sealium® welded assembly.

6005A T6 BULB BARS



Our bulb bars are available in 6005A T6 alloy, and in 6 meter lengths. They are Bureau Veritas and ABS certified.



Sections (mm)	45x4	60x5	85x5	100x6	120x6	150x8
A	45	60	85	100	120	150
B	11,5	15,0	20,0	24,0	28,0	60,0
C	8	11	15	18	22	20
D	4	5	5	6	6	8
R	2	2	2	2	3	3
Theoretical Weight Kgs/M	0,65	1,11	1,76	2,50	3,25	6,05



5754 H111 ROUND PIPES

OD (mm)	Thk (mm)	ID (mm)	Weight Kgs / M
30,0	5,0	20,0	1,06
33,4	4,55	24,3	1,15
40,0	5,0	30,0	1,49
42,2	4,85	32,5	1,55
48,3	5,08	38,14	1,85
50,0	5,0	40,0	1,91
60,0	5,0	50,0	2,34
60,3	5,54	49,22	2,57
70,0	5,0	60,0	2,76
76,1	7,01	62,0	4,13
80,0	5,0	70,0	3,18
88,9	7,62	73,66	5,25
90,0	5,0	80,0	3,58
100,0	5,0	90,0	4,03
101,6	8,08	85,44	6,40
110,0	5,0	100,0	4,45
114,3	8,56	97,18	7,68
125,0	5,0	115,0	5,09
140,0	5,0	130,0	5,73
150,0	5,0	140,0	6,05
160,0	5,0	150,0	5,67
180,0	5,0	170,0	7,42
200,0	5,0	190,0	8,27

All of our 5754 H111 round pipes are offered in 6 meter lengths, except:

- 101,6 x 8,08 mm
- 114,3 x 8,56 mm

Which lengths are between 4 and 5 meters.



6082 T6 EXTRUSIONS



Profiles	Round Tubes	Square Tubes	Flat Bars	"T" Profiles
30x5	●			
40x4		●		●
40x5	●			
40x8			●	
40x10			●	
40x12			●	
50x5	●			●
60x5	●			
60x6	●		●	
80x5	●			
100x10	●			

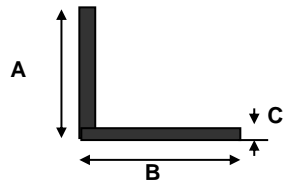
These profiles are available in 6 meter lengths.

Do not hesitate to contact us for any other sections and dimensions.



6060 T6 STANDARD EXTRUSIONS

SHARP ANGLE BARS



- Brut
- Anodisé - Laqué RAL 9010

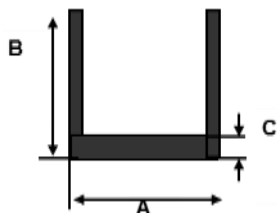
EGALES		
A x B x C	~ kg/ml	6060 T6
15 x 15 x 1,5	0,12	●
15 x 15 x 2	0,15	●
20 x 20 x 1,5	0,16	●
20 x 20 x 2	0,21	● ●
25 x 25 x 2	0,26	● ●
25 x 25 x 2,5	0,32	●
30 x 30 x 2	0,31	● ●
30 x 30 x 3	0,46	●
35 x 35 x 3	0,54	●
40 x 40 x 2	0,42	● ●
40 x 40 x 3	0,62	●
40 x 40 x 4	0,82	●
50 x 50 x 2	0,53	● ●
50 x 50 x 3	0,79	●
50 x 50 x 4	1,04	●
50 x 50 x 5	1,28	●
60 x 60 x 2	0,64	●
60 x 60 x 4	1,25	●
60 x 60 x 6	1,84	●
80 x 80 x 8	3,28	●
100 x 100 x 10	5,13	●

INEGALES		
A x B x C	~ kg/ml	6060 T6
15 x 10 x 2	0,12	●
20 x 10 x 2	0,15	●
20 x 15 x 2	0,18	●
25 x 15 x 2	0,21	●
30 x 20 x 2	0,26	● ●
30 x 20 x 3	0,38	●
40 x 20 x 2	0,31	● ●
40 x 20 x 3	0,46	●
40 x 25 x 2	0,34	●
40 x 25 x 3	0,50	●
40 x 30 x 2	0,37	●
50 x 20 x 2	0,37	● ●
50 x 30 x 2	0,42	●
50 x 30 x 3	0,62	●
50 x 30 x 4	0,82	●
60 x 20 x 2	0,42	●
60 x 30 x 2	0,48	●
60 x 40 x 2	0,53	● ●
60 x 40 x 4	1,03	●
60 x 40 x 5	1,28	●
80 x 40 x 4	1,25	●
80 x 50 x 5	1,69	●
80 x 50 x 6	2,01	●
100 x 20 x 2	0,63	● ●
100 x 50 x 5	1,95	●



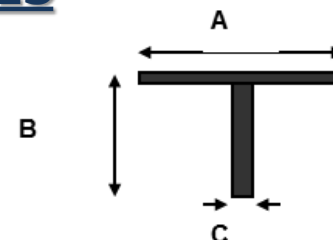
6060 T6 STANDARD EXTRUSIONS

« U » PROFILES WITH SHARP ANGLES



A x B x C	~ kg/ml	6060 T6
10 x 10 x 2	0,14	●
15 x 15 x 2	0,22	●
20 x 20 x 2	0,30	●
25 x 25 x 2	0,38	●
25 x 25 x 2,5	0,47	●
30 x 20 x 2	0,36	●
30 x 30 x 2	0,46	●
30 x 30 x 3	0,68	●
40 x 20 x 2	0,41	●
40 x 40 x 2	0,62	●
40 x 40 x 4	1,21	●
50 x 25 x 2,5	0,64	●
50 x 30 x 3	0,84	●
50 x 30 x 4	1,10	●
60 x 40 x 4	1,43	●
80 x 40 x 4	1,64	●
80 x 40 x 5	2,03	●
80 x 50 x 5	2,30	●
100 x 50 x 5	2,57	●
125 x 63 x 6	3,87	●
140 x 70 x 8	5,70	●
160 x 80 x 10	8,10	●

« T » PROFILES WITH SHARP ANGLES

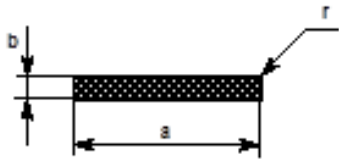


A x B x C	~ kg/ml	6060 T6
25 x 25 x 2	0,26	●
30 x 30 x 2	0,31	●
30 x 30 x 3	0,46	●
40 x 40 x 3	0,62	●
40 x 40 x 4	0,82	●
50 x 50 x 5	1,28	●
60 x 60 x 6	1,85	●
80 x 80 x 8	3,28	●



6060 T6 STANDARD EXTRUSIONS

FLAT BARS



- Brut
- Anodisé - Laqué RAL 9010

Section (mm)	~ kg/ml	6060 T6
10 x 5	0,13	●
15 x 2	0,08	●
15 x 3	0,12	●
15 x 5	0,20	●
15x10	0,41	●
20 x 2	0,11	● ●
20 x 3	0,16	●
20 x 4	0,22	● ●
20 x 5	0,27	● ●
20 x 6	0,32	●
20 x 8	0,43	●
20 x 10	0,54	●
20 x 12	0,65	●
20 x 15	0,81	●
25 x 2	0,14	●
25 x 3	0,21	●
25 x 4	0,27	●
25 x 5	0,34	●
25 x 6	0,41	●
25 x 8	0,54	●
25 x 10	0,68	●
25 x 12	0,81	●
25 x 15	1,01	●
30 x 2	0,16	●
30 x 3	0,24	●
30 x 4	0,32	●
30 x 5	0,41	●
30 x 6	0,49	●
30 x 8	0,65	●

Section (mm)	kg/ml	6060 T6
30 x 12	0,97	●
30 x 15	1,22	●
30 x 20	1,62	●
35 x 8	0,76	●
40 x 2	0,22	●
40 x 3	0,32	● ●
40 x 4	0,43	●
40 x 5	0,54	●
40 x 6	0,65	●
40 x 8	0,86	●
40 x 10	1,08	●
40 x 12	1,28	●
40 x 15	1,62	●
40 x 20	2,16	●
40 x 30	3,24	●
50 x 2	0,27	●
50 x 3	0,40	●
50 x 4	0,54	●
50 x 5	0,67	●
50 x 6	0,81	●
50 x 8	1,08	●
50 x 10	1,35	●
50 x 12	1,62	●
50 x 15	2,02	●
50 x 20	2,70	●
50 x 25	3,37	●
60 x 5	0,81	●
60 x 6	0,97	●
60 x 8	1,30	●
60 x 10	1,62	●

Section (mm)	kg/ml	6060 T6
60 x 12	1,94	●
60x 15	2,43	●
60 x 20	3,24	●
60 x 30	4,86	●
70 x 5	0,95	●
80 x 5	1,08	●
80 x 6	1,30	●
80 x 8	1,73	●
80 x 10	2,16	●
80 x 15	3,24	●
80 x 20	4,32	●
80 x 40	8,64	●
100 x 5	1,35	●
100 x 6	1,62	●
100 x 8	2,16	●
100 x 10	2,70	●
100 x 12	3,24	●
100 x 15	4,05	●
100 x 20	5,40	●
120 x 5	1,62	●
120 x 10	3,24	●
120 x 15	4,86	●
120 x 20	6,48	●
140 x 10	10,00	●
150 x 5	2,02	●
150 x 10	4,05	●
150 x 15	6,08	●
160 x 10	4,32	●
200 x 10	5,4	●

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6060 T6 STANDARD EXTRUSIONS

SQUARE PIPES WITH SHARP ANGLES

- Brut
- Anodisé - Laqué RAL 9010

A x B x ép.	~ kg/ml	6060 T6
20 x 20 x 1,5	0,30	●
20 x 20 x 2	0,39	●
25 x 25 x 2	0,50	●
25 x 25 x 3	0,71	●
30 x 30 x 1,5	0,46	●
30 x 30 x 2	0,61	● ●
30 x 30 x 3	0,88	●
35 x 35 x 2	0,71	● ●
40 x 40 x 2	0,82	● ●
40 x 40 x 3 AA	1,19	●
40 x 40 x 3	1,20	●
40 x 40 x 4	1,56	●
45 x 45 x 2	0,93	●
50 x 50 x 2	1,04	● ●

A x B x ép.	~ kg/ml	6060 T6
50 x 50 x 2,5	1,28	●
50 x 50 x 3	1,52	●
50 x 50 x 4	1,99	●
60 x 60 x 2	1,25	●
60 x 60 x 3	1,85	●
60 x 60 x 4	2,42	●
70 x 70 x 4	2,85	●
80 x 80 x 2	1,69	● ●
80 x 80 x 4	3,28	●
80 x 80 x 5	4,05	●
100 x 100 x 2	2,12	● ●
100 x 100 x 4	4,15	●
150 x 150 x 5	6,15	●



6060 T6 STANDARD EXTRUSIONS

RECTANGULAR PIPES WITH SHARP ANGLES

- Brut
- Anodisé - Laqué RAL 9010

A x B x ép.	~ kg/ml	6060 T6
25 x 15 x 2	0,39	●
30 x 15 x 1,5	0,34	●
30 x 20 x 2	0,50	●
40 x 20 x 2	0,61	● ●
40 x 20 x 3	0,88	●
40 x 20 x 4	1,12	●
50 x 20 x 2	0,71	●
50 x 25 x 2	0,77	●
50 x 30 x 2	0,82	● ●
50 x 30 x 3	1,20	●
50 x 30 x 3 AA	1,20	●
60 x 30 x 2	0,93	●
60 x 30 x 3	1,36	●
60 x 40 x 2	1,04	● ●
60 x 40 x 3	1,52	●
60 x 40 x 4	1,98	●
80 x 20 x 2	1,04	●
80 x 40 x 2	1,25	● ●

A x B x ép.	~ kg/ml	6060 T6
80 x 40 x 3	1,85	●
80 x 40 x 4	2,41	●
80 x 40 x 4 AA	2,41	●
80 x 50 x 5	3,24	●
100 x 40 x 2	1,47	●
100 x 40 x 3	2,17	●
100 x 50 x 2	1,58	● ●
100 x 50 x 2,5	1,96	●
100 x 50 x 3	2,33	●
100 x 50 x 4	3,07	●
100 x 50 x 5	3,78	●
120 x 60 x 3	2,82	●
130 x 50 x 4	3,71	●
150 x 50 x 4	4,15	●
150 x 80 x 4	4,80	●
200 x 50 x 4	5,23	●
200 x 100 x 4	6,30	●



6060 T6 STANDARD EXTRUSIONS

ROUNDS PIPES

Sections (mm)	~ kg/ml	6060 T6
16 x 2	0,25	●
20 x 1,5	0,23	●
20 x 2	0,32	●
22 x 1,5	0,26	●
25 x 1,5	0,31	●
25 x 2	0,40	●
25 x 2,5	0,49	●
26 x 2,5	0,56	●
30 x 2	0,49	● ●
30 x 3	0,71	●
30 x 4	0,91	●
30 x 5	1,10	●
35 x 2	0,58	●
35 x 5	1,32	●
40 x 2	0,67	● ●
40 x 5	1,54	●

Sections (mm)	~ kg/ml	6060 T6
45 x 2	0,76	●
50 x 2	0,84	● ●
50 x 2,5	1,04	●
50 x 3	1,24	●
50 x 4	1,56	●
50 x 5	1,98	●
50 x 10	3,52	●
55 x 2	0,93	●
60 x 2	1,02	●
60 x 3	1,45	●
60 x 5	2,42	●
60 x 10	4,40	●
70 x 5	2,86	●
75 x 5	2,97	●
80 x 2	1,37	●
80 x 5	3,30	●

Sections (mm)	~ kg/ml	6060 T6
80 x 10	6,16	●
90 x 5	3,74	●
100 x 2	1,66	●
100 x 5	4,18	●
100 x 10	7,92	●
110 x 5	4,62	●
120 x 5	5,06	●
120 x 10	9,68	●
130 x 5	5,30	●
130 x 10	10,56	●
140 x 5	5,94	●
140 x 10	11,44	●
150 x 5	6,38	●
160 x 5	6,82	●
200 x 5	8,58	●

6060 T6 STANDARD EXTRUSIONS

ROUND BARS

Diam.	~ kg/ml	6060 T6
10	0,22	●
12	0,32	●
14	0,43	●
16	0,56	●
18	0,71	●
20	0,88	●
25	1,37	●
30	1,98	●
40	3,52	●
50	5,50	●

SQUARE BARS

Diam.	~ kg/ml	6060 T6
10	0,28	●
12	0,40	●
14	0,55	●
16	0,72	●
20	1,12	●
22	1,36	●
25	1,75	●
30	2,52	●
40	4,48	●
50	7,00	●



FLANGES



Flanges available on stock are made from round bars in 5083 F.

DN	Diam Ext (mm)	Diam Int (mm)	Ep (mm)	Nb Trous (mm)	Diam Trous (mm)	Entraxe Trous (mm)
DN 20	105	27,6	16	4	14	75
DN 25	115	34,7	16	4	14	85
DN 32	140	43,1	16	4	18	100
DN 40	150	49,0	16	4	18	110
DN 50	165	61,1	20	4	18	125
DN 65	185	77,1	20	4	18	145
DN 80	200	90,0	25	8	18	160
DN 90	210	102,2	25	8	18	170
DN 100	220	115,7	25	8	18	180

For any other dimensions, do not hesitate to contact us.

90° ELBOWS

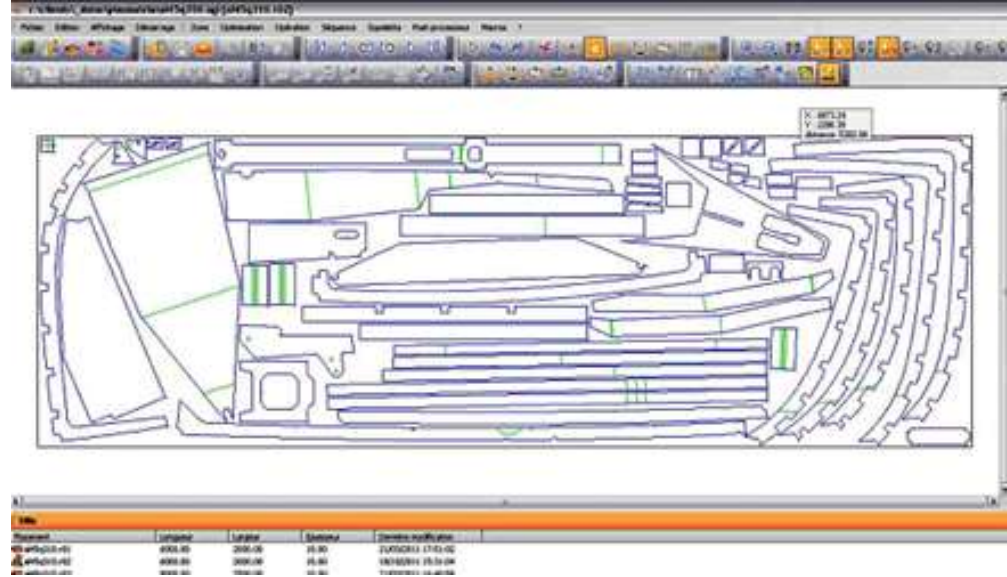


Elbows which are available on stock are bent from round pipes in 5754 H111.

Diam Ext (mm)	Ep (mm)	Rayon à l'axe (mm)	Lgr Droite (mm)
33,4	4,55	68	80/80
42,2	4,85	80	85/85
48,3	5,08	97	100/100
60,3	5,54	120	150/150
76,1	7,01	152	180/180
88,9	7,62	178	200/200
101,6	8,08	203	250/250
114,3	8,56	250	300/300

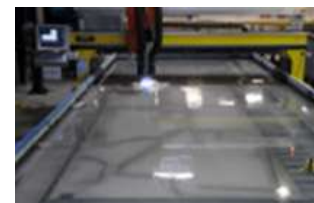
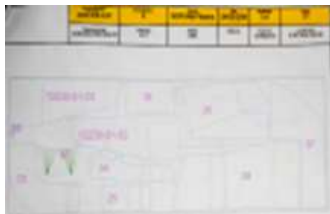
For any other dimensions, do not hesitate to contact us.

UNDERWATER HIGH DEFINITION PLASMA CUTTING



2 CUTTING POOLS:
 ➤ 3000x9000mm
 ➤ 3000x12000mm

OPTIMIZATION:
 Gain up to 15% of used metal !



OPTIMIZATION

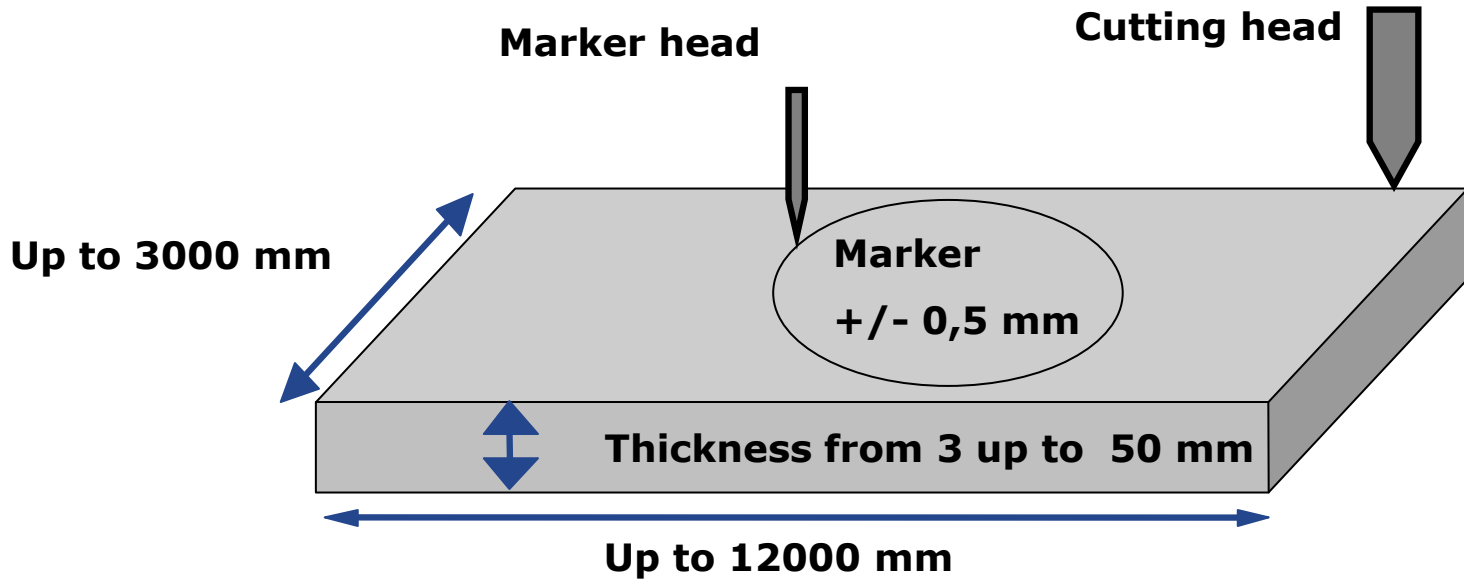
HANDLING

MARKING

CUTTING

PACKAGING

PLASMA CUTTING CAPACITIES



THICKNESS

From 3 up to 12mm:
 From 12 up to 25mm:
 From 25 up to 50mm:

DIMENSION TOLERANCES

+/- 1mm
 +/- 1,5mm
 +/- 2mm

ANGLE CUT

0 - 1mm
 0 - 2mm
 0 - 4mm

The complete or partial cut of your ship, associated with the marking of the parts (water lines, sheet and profile assembling, mark lines...) can reduce by more than a half the time of manual marking and cutting. This in addition of the gain of metal use !!!

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