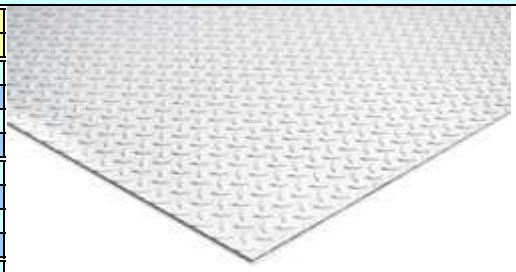
ALUMINIUM

Aluminium is an excelent material for its chemical/physical proprieties that allows to be used in a great number of applications, such as: industrial, architectural, electronics and much more.
Because of the fact that aluminium is very easy to work, light but in the same time strong and comlpetely recyclable, this material has high potential future applications. It has been verified that the proprieties of material after recycling are perfectly equal to the ones in the original state.

ALUMINIUM MANUFACTURING PROCESS: ALLOYES

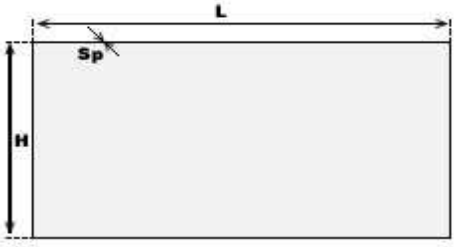
Aluminium is generally used by way of pure aluminium alloyes combined with other elements to improve the mechanical proprieties of metal and increase the strenght and corrosion resistance.

Materials that form the final product with specific characteristics are the following:
- Fe (iron) - Increase of strenght
- Si (silicon) - Also with Mg (magnesium) allow to increase the strenght.
- Cu (copper) - Improve the mechanical proprieties, reduce the deep-drawing characteristics.
- Mn (manganese) - Improve the mechanical proprieties, modify the deep-drawing characteristics.
- Mg (magnesium) - More strenght after the cold rolling.
- Cr (chrome) - More strenght in combination with other elements, such as: Cu (copper), Mn (manganese) and Mg (magnesium).
- Ti (titanium) - More strenght.
- Zn (zinco) - Reduce the corrosion resistance.



DROP SHAPED PLATES - Lenght grain 1,5 mm, alloy EN AW-5754

Thickness	Height	Width	Weight in Kg
2	1000	2000	12,5
3	1000	2000	18,0
4	1000	2000	23,4
5	1000	2000	28,8
2	1250	2500	19,0
3	1250	2500	28,0
4	1250	2500	36,5
5	1250	2500	45,0
2	1500	3000	28,4
3	1500	3000	40,0
4	1500	3000	52,6
5	1500	3000	65,0



PURE ALUMINIUM PLATES - Alloy EN AW-1050A

Thickness	Height	Width	Weight in Kg
1	1000	2000	5,4
1,5	1000	2000	8,1
2	1000	2000	10,8
3	1000	2000	16,2
4	1000	2000	21,6
5	1000	2000	27,0
6	1000	2000	32,4
1	1250	2500	8,4
1,5	1250	2500	12,7
2	1250	2500	16,9
3	1250	2500	25,4
4	1250	2500	34,0
5	1250	2500	42,2
6	1250	2500	50,6
1	1500	3000	12,2
1,5	1500	3000	18,3
2	1500	3000	24,3
3	1500	3000	36,5
4	1500	3000	48,6
5	1500	3000	60,8
6	1500	3000	72,9
2	2000	4000	43,2
3	2000	4000	64,8

ALUMINIUM PLATES - MAGNESIUM - Alloy EN AW-5754A

Thickness	Height	Width	Weight in Kg
1	1000	2000	5,4
1,5	1000	2000	8,1
2	1000	2000	10,8
3	1000	2000	16,2
5	1000	2000	27,0
8	1000	2000	43,2
10	1000	2000	54,0
12	1000	2000	64,8
15	1000	2000	81,0