

C/ Bizkargi, 6 – POL. SARRIKOLA 48195 LARRABETZU (BISCAY) Tel. 944 123 199

Technical data sheet

Title	Flat washer
Standard	NF E 25 514

1.- Functions of washers.

The main functions of washers are:

1.- To protect contact surfaces against scratches or wear that may be caused by screws or nuts by rubbing.

2.- To distribute the tightening force evenly to obtain local pressures that are close to the average pressure.

3.- To move the tightening force to different areas of the head of the screw or nut. Oversized or torn holes.

4.- To reduce the risks of loosening due to increase in the friction coefficient on the screw or nut (serrated or ribbed washers)

5.- To secure a possible loss of tightening torque due to deformation of the parts (elastic washers)

6.- To compensate for the lack of parallelism of the parts or uneven surfaces.

7.- Watertightness between the head or screw or nut and the part to be tightened (polyamide coated washer).

8.- Fastening of cables to the electrical connections.

2- Application and classes of washers

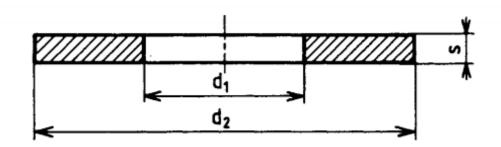
NF E25 514 stainless steel flat washers are class A washers.

There are three series for this washer standard: Series Z, series M and series L.

These washers are made of stainless Steel (A2 or A4) and have a minimum hardness of 150HV



3.- Dimensions of washers



METRIC	d1	S	d2 Z	d2 M	d2 L
3	3.2	0.8	6	8	12
4	4.3	0.8	8	10	14
5	5.3	1	10	12	16
6	6.4	1.2	12	14	18
7	7.4	1.5	14	16	20
8	8.4	1.5	16	18	22
10	10.5	2	20	22	27
12	13	2.5	24	27	32
14	15	2.5	27	30	36
16	17	3	30	32	40
18	19	3	32	36	45
20	21	3	36	40	50
22	23	3	40	45	55
24	25	4	45	50	60
27	28	4	48	55	65
30	31	4	52	60	70