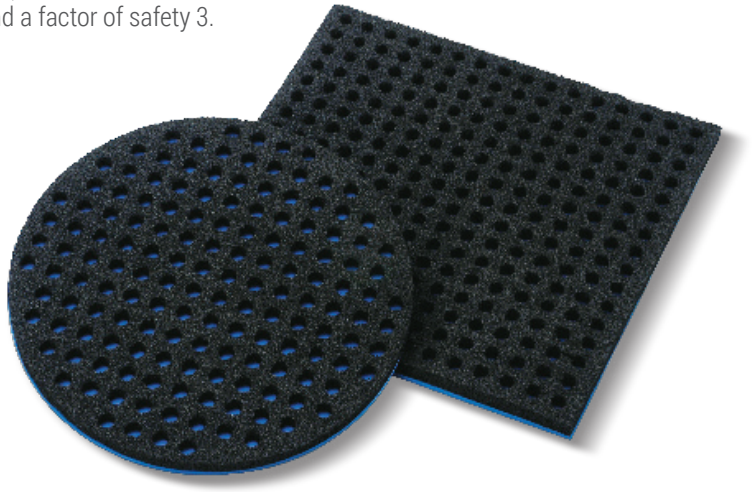
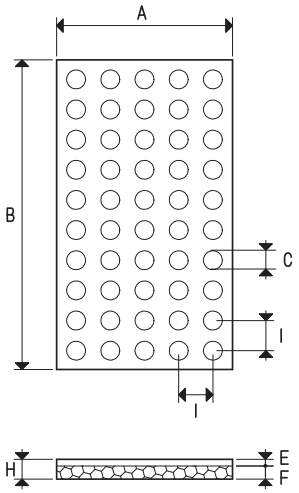
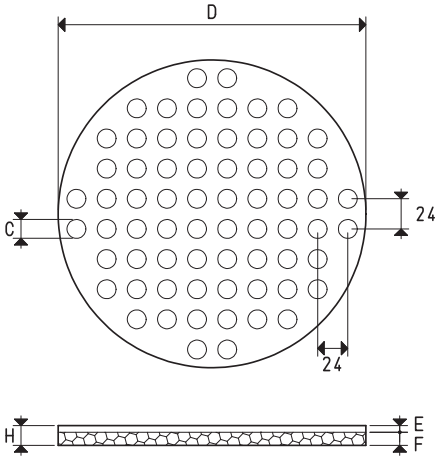
STANDARD SUCTION PLATES PX and P2X FOR OCTOPUS SYSTEMS

The suction plates PX described on this page are installed as standard on all OCTOPUS systems and, therefore, can be supplied as a spare or replacement part.
They are made with anodised aluminium sheets with calibrated holes equidistant from each other and coated with a special perforated foam rubber with two different thicknesses: 15 mm for suction plates of the PX range; 30 mm, for special suction plates of the P2X range. The foam rubber is also perforated at the calibrated holes, but its holes have a diameter of 10-15 mm. The use of calibrated holes allows for exact calculation of the flow rate of the vacuum generator to be used, to ensure that, even in the presence of losses due to transpiration or even in case of failure to cover the object to be gripped, a minimum sufficient level of vacuum remains for gripping and handling the load.
Their lifting force was calculated considering a level of vacuum of at least -75 Kpa, the total surface of the holes within the foam rubber and a factor of safety 3.



Item	Force Kg	A	B	C Ø	D Ø	E	F	H	I	Holes No.	Only rubber item	Weight Kg
PX 07 12	4.5	70	120	10	---	5	15	20	17	24	X 07 12	0.13
PX 08 08	3.0	80	80	10	---	5	15	20	17	16	X 08 08	0.12
PX 15 20	21.2	150	200	15	---	5	15	20	24	48	X 15 20	0.40
PX 20 30	42.4	200	300	15	---	5	15	20	24	96	X 20 30	0.80
PX 20 40	56.6	200	400	15	---	5	15	20	24	128	X 20 40	1.10
PX 20 60	84.8	200	600	15	---	5	15	20	24	192	X 20 60	1.70
PX 30 30	63.6	300	300	15	---	5	15	20	24	144	X 30 30	1.30
PX 30 40	84.8	300	400	15	---	5	15	20	24	192	X 30 40	1.70
PX 30 50	106.0	300	500	15	---	5	15	20	24	240	X 30 50	2.10
PX 40 40	113.1	400	400	15	---	5	15	20	24	256	X 40 40	2.20
PX 40 60	169.6	400	600	15	---	5	15	20	24	384	X 40 60	3.40
PX 40 100	282.6	400	1000	15	---	5	15	20	24	656	X 40 100	5.60
PX 60 80	339.2	600	800	15	---	5	15	20	24	768	X 60 80	6.70
PX 60 120	508.7	600	1200	15	---	5	15	20	24	1176	X 60 120	10.10
PX 80 100	597.4	800	1000	15	---	5	15	20	24	1353	X 80 100	11.30
PX DO 10	9.0	---	---	15	100	5	15	20	17	21	X DO 10	0.12
PX DO 35	65.4	---	---	15	350	5	15	20	24	148	X DO 35	1.30
PX DO 50	139.6	---	---	15	500	5	15	20	24	316	X DO 50	2.30
P2X 07 12	4.5	70	120	10	---	5	30	35	17	24	2X 07 12	0.26
P2X 08 08	3.0	80	80	10	---	5	30	35	17	16	2X 08 08	0.24
P2X 15 20	21.2	150	200	15	---	5	30	35	24	48	2X 15 20	0.44
P2X 20 30	42.4	200	300	15	---	5	30	35	24	96	2X 20 30	0.89
P2X 20 40	56.6	200	400	15	---	5	30	35	24	128	2X 20 40	1.21
P2X 20 60	84.8	200	600	15	---	5	30	35	24	192	2X 20 60	1.77
P2X 30 30	63.6	300	300	15	---	5	30	35	24	144	2X 30 30	1.36
P2X 30 40	84.8	300	400	15	---	5	30	35	24	192	2X 30 40	1.78
P2X 30 50	106.0	300	500	15	---	5	30	35	24	240	2X 30 50	2.22
P2X 40 40	113.1	400	400	15	---	5	30	35	24	256	2X 40 40	2.41
P2X 40 60	169.6	400	600	15	---	5	30	35	24	384	2X 40 60	3.55
P2X 40 100	282.6	400	1000	15	---	5	30	35	24	656	2X 40 100	5.96
P2X 60 80	339.2	600	800	15	---	5	30	35	24	768	2X 60 80	7.18
P2X 60 120	508.7	600	1200	15	---	5	30	35	24	1176	2X 60 120	10.73
P2X 80 100	597.4	800	1000	15	---	5	30	35	24	1353	2X 80 100	11.93
P2X DO 10	9.0	---	---	15	100	5	30	35	17	21	2X DO 10	0.14
P2X DO 35	65.4	---	---	15	350	5	30	35	24	148	2X DO 35	1.49
P2X DO 50	139.6	---	---	15	500	5	30	35	24	316	2X DO 50	2.48





Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$