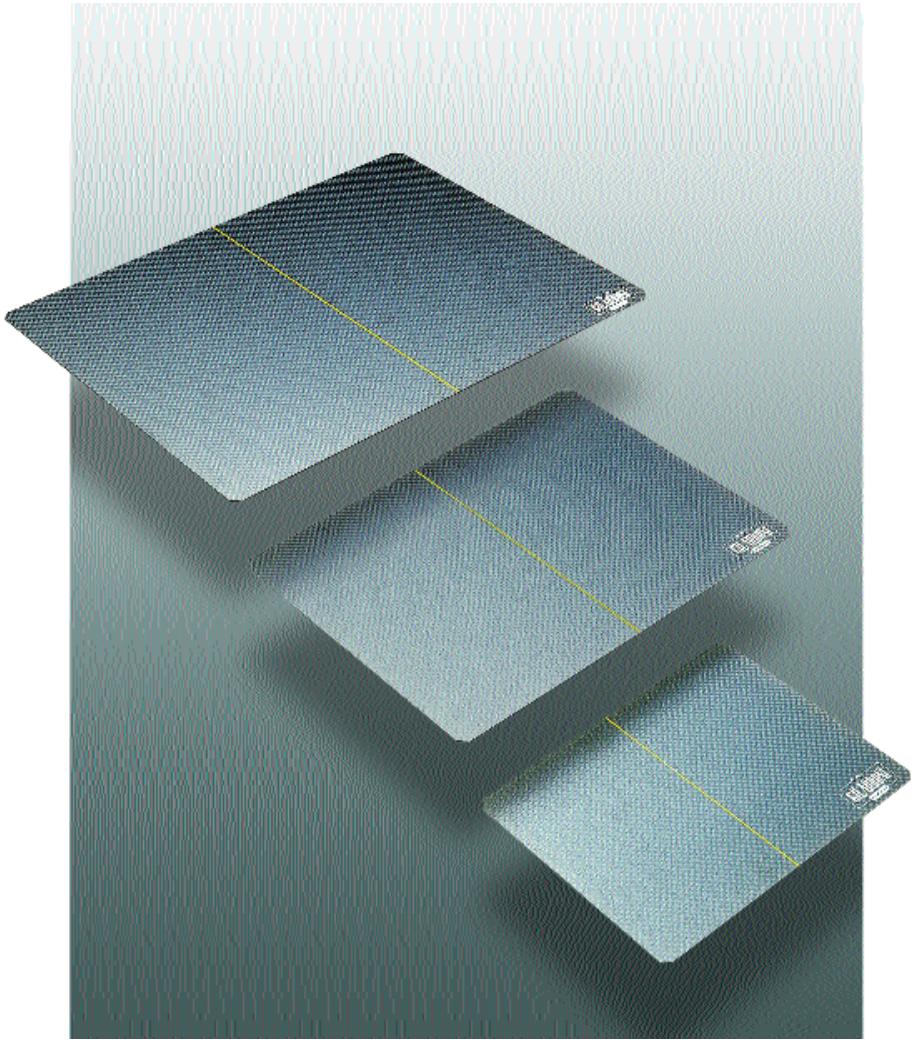
GRIDGIL

GRIDGIL
X-RAY GRIDS



Acknowledged as "HIGHLY QUALIFIED LABORATORY" with decree D.M. 9-10-1985 - L.46/82 art.4

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CSQ CSQ MED ISO 13485 CE

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DA METTERE IN SCHEDA PRODOTTO

INTRODUCTION

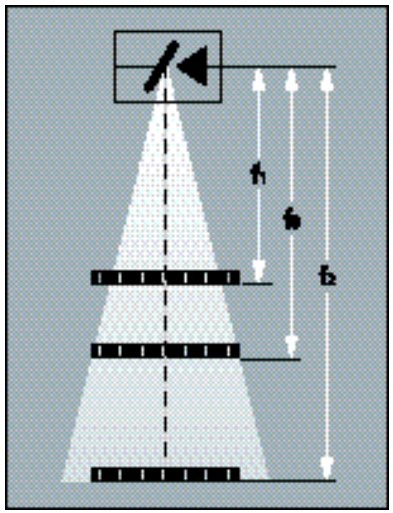
Gilardoni x-ray grids GRIDGIL produce excellent results in radiological image resolution, homogeneity and contrast. The superior quality of our grids is the result of Gilardoni's more than fifty years research and development experience in our laboratories.

Gilardoni x-ray grids excel in the optimization of radiological image quality: they ensure both the highest scattered radiation absorption as well as primary radiation transparency, the two crucial factors determining superior image accuracy for safe, reliable diagnostic analysis.

GRIDGIL proprietary design, the high quality standard of the materials and our innovative manufacturing process ensure the best possible quality for each individual grid produced in our factory.

Gilardoni's approach, seeking the highest standards and with ISO 9001 and EN 46001 certification, allows us to optimize the manufacturing process. As a result, GRIDGIL are the x-ray grids with unparalleled quality-price ratio on the world market.

APPLICATIVE DISTANCE LIMITS OF FOCALIZING GRIDS



These are established by the formulas:

$$f_1 = \frac{f_0}{1 + \frac{2 \cdot f_0 \cdot V_1}{r \cdot L}}$$

$$f_2 = \frac{f_0}{1 - \frac{2 \cdot f_0 \cdot V_2}{r \cdot L}}$$

where:
L = grid width
f_0 = focalizing distance
f_1 = lower applicative distance film
f_2 = higher applicative distance film
r = grid ratio
V_1 = peripheric primary radiation loss at f_1 limit
V_2 = peripheric primary radiation loss at f_2 limit

Applicative distance limits f_1 - f_2 are calculated only for a fixed grid according to the previous formula. For oscillating grids use L + C instead of L, where C is the total grid stroke during oscillation.

DA METTERE IN SCHEDA PRODOTTO

PRODUCTION RANGE

GRIDS FOR GENERAL DIAGNOSTICS

- Focalization 70, 100, 150, 180 cm (others on request)
- Cover: 0.4 mm aluminum sheet
- Supplied separately, inserted into a cassette or mounted onto the casing.
  Also available with single cover for use in cassettes without flat bottom.
  Fitting is done in our workshops.

l/cm	l/inch	THICKNESS(mm) Line Pb	THICKNESS(mm) Intersp. Al	Grid Ratio r	Total Thickness (mm)
40	103	0,05	0,20	6	2,20
				8	2,60
				10	3,00
				12	3,40
60	150	0,04	0,12	6	1,70
				8	1,95
				10	2,20
				12	2,45
70	175	0,03	0,12	6	1,70
				8	1,95
				10	2,20
				12	2,45

STANDARD SIZES (cm) Other sizes on request
13x18 18x24
24x30 30x30
30x40 35x35
35x43 30x80
30x90 30x120

GRIDS FOR SPECIALIZED DIAGNOSTICS

- Focalization 100, 120 cm
- Cover: in 0.5 mm carbon fiber
- Supplied separately

l/cm	l/inch	THICKNESS(mm) Line Pb	THICKNESS(mm) Intersp. HT	Grid Ratio r	Total Thickness (mm)
34	85	0,05	0,25	8	3,20
				10	3,70

SIZE ON REQUEST (cm) Shaped to design
Rectangular or round

MAMMOGRIDGIL

- Focalization 60, 65, 75 cm
- Cover: in 0.4 mm carbon fiber
- Supplied separately or inserted into cassette
- Customized products on request

l/cm	l/inch	THICKNESS(mm) Line Pb	THICKNESS(mm) Intersp. HT	Grid Ratio r	Total Thickness (mm)
36	90	0,03	0,25	4	1,75
				5	2,00
				6	2,25

STANDARD SIZES (cm) Other sizes on request
18x24 24x30

NOTE
When ordering please specify:
- N° lines/cm
- Grid ratio r
- Size and direction of the lines
- Focalizing cm