PanelBolic – An Hybrid DIY Project of Panel and Parabolic Solar Cooker

Prof. Elmo Dutra Filho, MSc

Sunny Cooking Fogões Solares – Porto Alegre – RS – South Brazil
Where I live... Porto Alegre City – Rio Grande do Sul state – South Brasil
Twenty years ago… I was caught by a virus… Solar Cooking…
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First attempt in parabolic solar cooker – thermo molded PS sheets
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First attempt in parabolic solar cooker – thermo molded 2mm PS sheets

- Cut here
- PS sheet 50 cm X 50 cm
- Flaps to be folded with heat
- Mold Area
Second attempt in parabolic SC – 6 petals satellite dish, Mylar covered
Third attempt in parabolic SC – plannifying parabolas – panelbolic SC!
A light parabolic SC – just 2 kg!
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My DATS version – Dual Angle Twelve sided
Four petals of DATS parabolic SC
DATS pattern – 12 petals like that!
Materials I use: plastic alveolar PP sheets (Coroplast) and polyester film
How to planify a parabola?

Layout of EB Hypar 42 Cooker Reflector - [https://www.earthboundtech.com/eb-hypar-cooker](https://www.earthboundtech.com/eb-hypar-cooker)
How to planify a parabola?

http://www.angelfire.com/80s/shobhapardeshi/twelvesided.html
How to planify a parabola?
Thank you!!! Ask me my card!

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