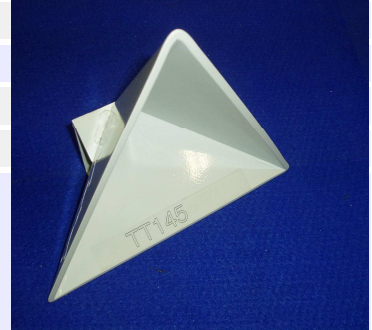




TRIHEDRAL REFLECTORS

Téthys

Plan #	4LUN04R0001
Frequency range	Microwave domain
Measurement option	On request
The reflector can be used on a very wide frequency range.	



Theoretical R.C.S.	$R.C.S. = \frac{4\pi \cdot a^4}{3\lambda^2}$ <p>R.C.S. in sqm λ : wave length in m <i>a</i> in meter (edge of the right-angled triangle from the right-angle)</p>
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Response	Monostatic
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Polarization	Rectilinear. The reflected wave is on the same plane as the wave interrogating the reflector. Option : polarizer for circular waves reflexion without inversion right or left hand
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Dimension	On request. Determination of the relevant dimension for the R.C.S. specifications.
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Options (on request)	<ul style="list-style-type: none"> * Possibility of delivering dismantled (see picture) * Surface treatment (Alodine treatment, painting...)
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Interface trihedral reflector/support	Standard interface according to plan # 4LUN04R0001 Development of any other interface on request
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Specific packaging	
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⚠ Precautions of use	The response of the trihedral reflector depends on the environment. <ul style="list-style-type: none"> ● Avoid thick fairing ● Avoid fairing made of dielectrical material with important losses ● Avoid any object (especially metallic) positioned between the trihedral and the radar (strap, screw...) ● Take care in mounting
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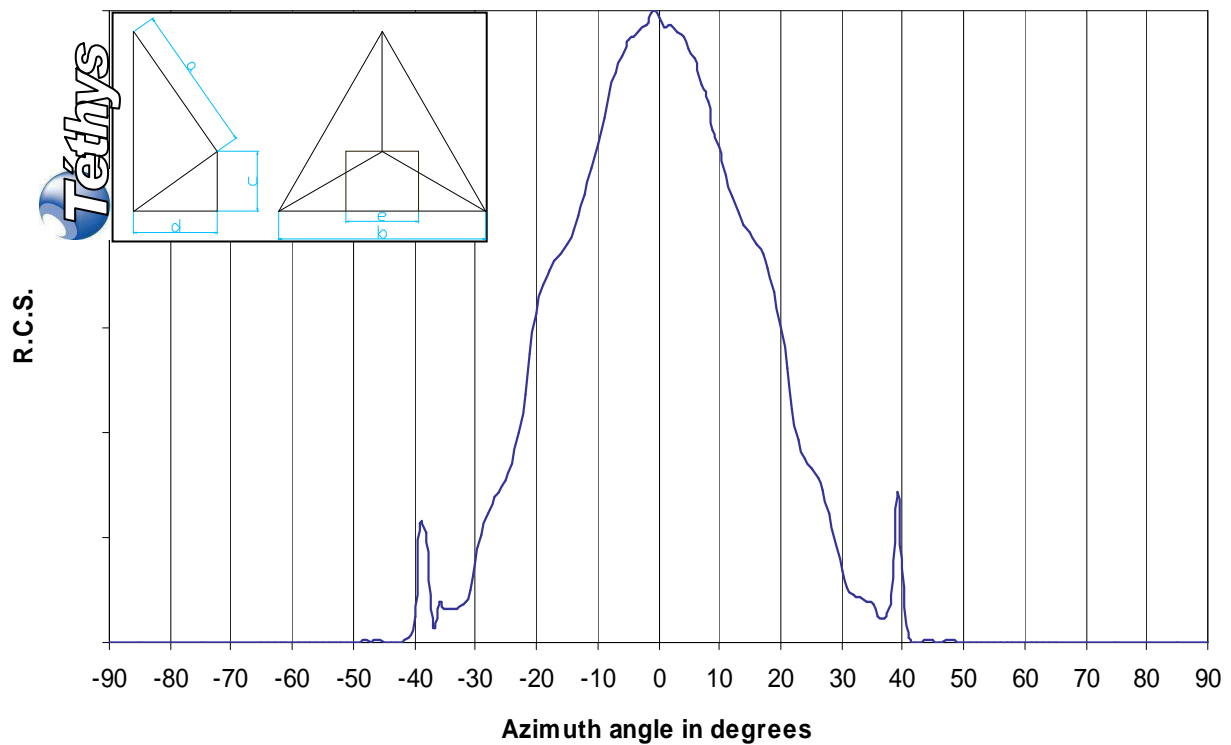




TRIHEDRAL REFLECTORS

Example of trihedral reflector

Reference	Theoretical Radar Cross Section at 0° (sqm) (aperture at -3dB : ± 20°)			Standard metal plate thickness (mm)	Weight without fixing (kg)	a (mm)
	F = 3,3 GHz	F = 9,375GHz	F = 16,5GHz			
TT400	13,0	105	324	4	3,8	400



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