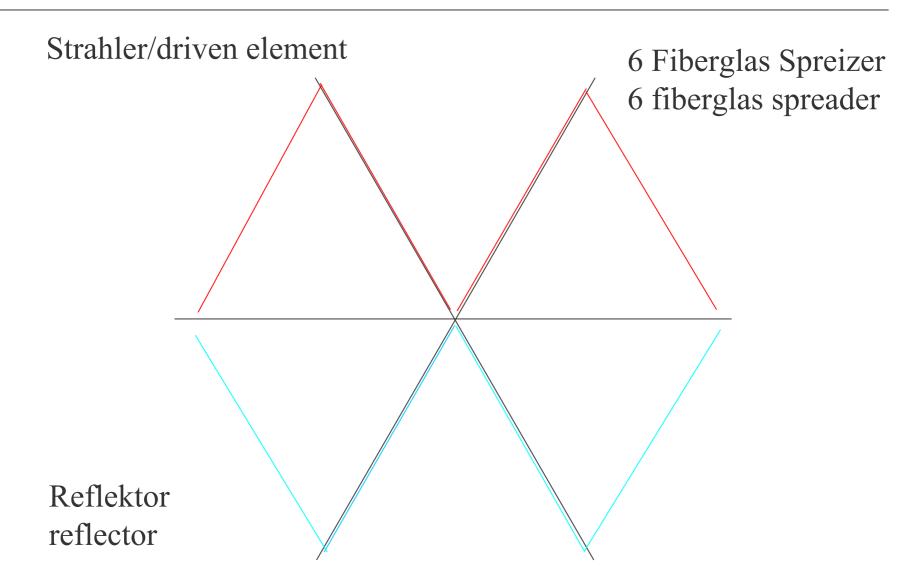
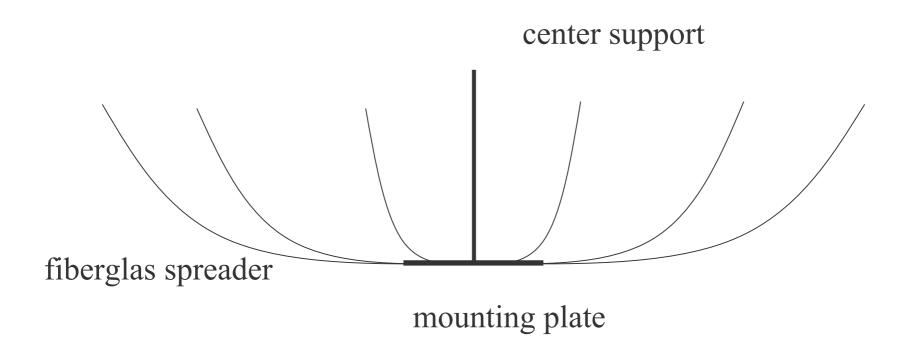
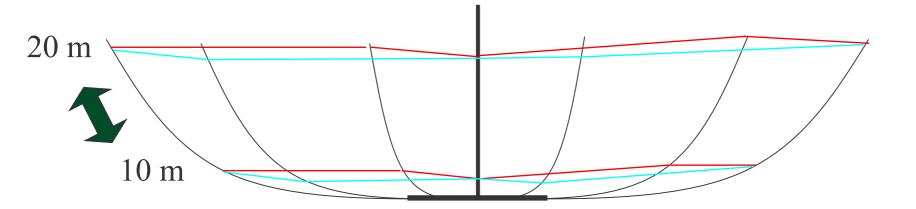


Reflektor/reflector

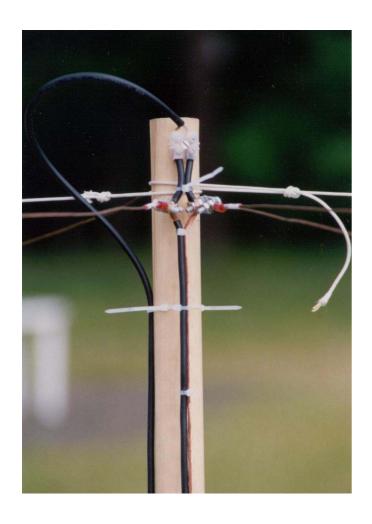


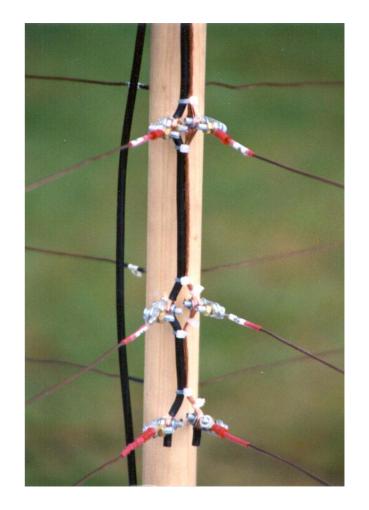


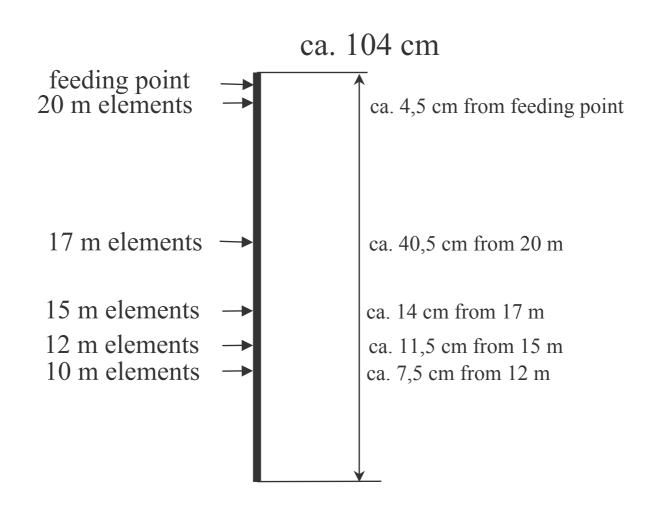


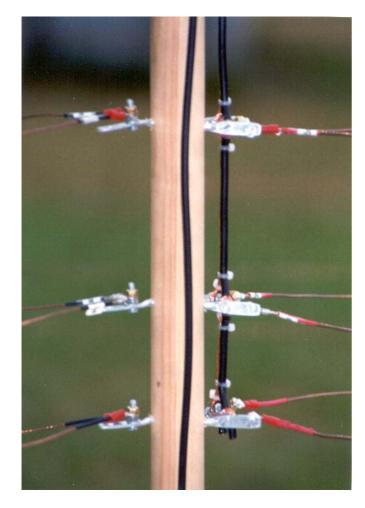
- •Center support may be a pvc tube or from fiberglas
- •elements (1,5mm² wire not insulated) are 2 legs connected between the center support and the spreaders
- •elements are feeded from the top with a low impedance feeding line
- •use big diameter (>4 mm²) wires fixed together very close



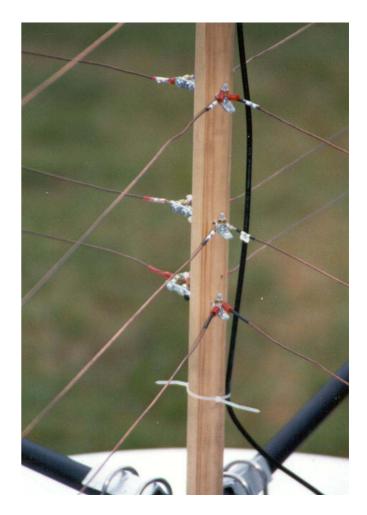








side view



reflector side

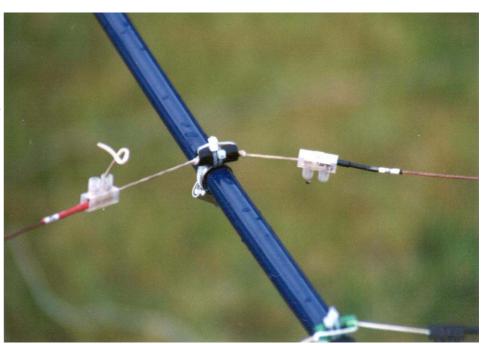
reflected W beam The Elements

	band	driven element (cm)	reflector (cm)	
	20 m	552	560	
	17 m	425	431	
	15 m	363,5	369,5	
	12 m	305	311	
	10 m	273	277,5	

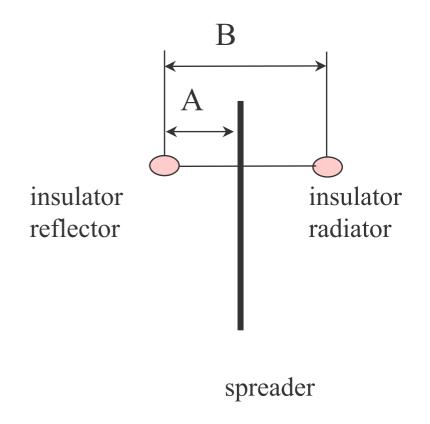
The length is for one leg and every element has 2 legs! Wire is 1,5 mm² flexible copper not insulated. If insulated it has to be shorter about 10-15 cm.

•The elements are connected via insulators to the spreaders

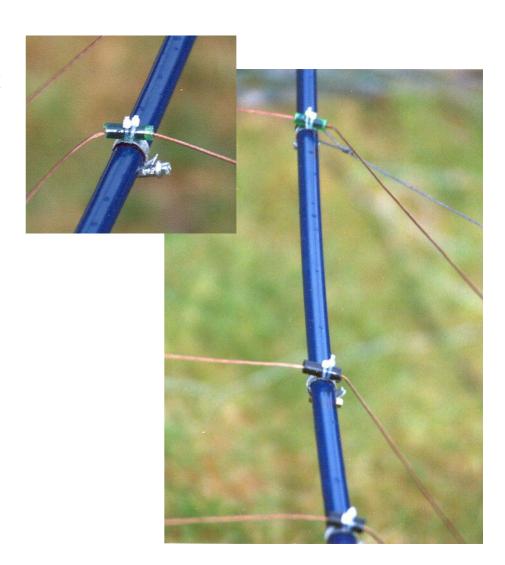
•please be patient with the length because this is critical for the impedance



band	A (cm)	B (cm)
20 m	11	28
17 m	9	22,5
15 m	8	20
12 m	6,5	17
10 m	6	15,5



Insulators are made from a small fiberglas tube to support the element wire pressed into a flexible pvc-tube to get it better fixed to the spreader. The part of fiberglas tube is needed because the wire must be able to move



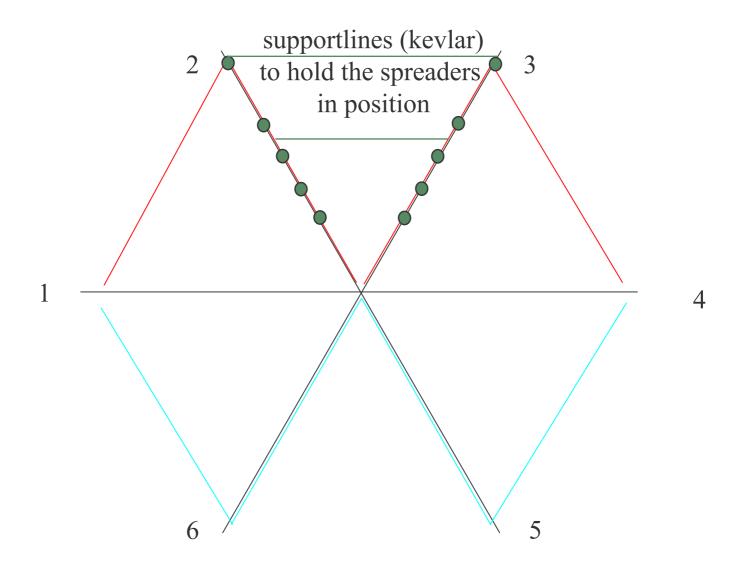
For the spreader I used 4 m long fiberglas fishing tubes.

The smallest element was removed and used for the element fixing parts.

Because of the small diameter you have to support the end at the mounting plate. I used 30 cm long wooden sticks to put it inside the tube.

If you plan to use it for portable use you better take stronger material. For a fixed location it will work fine and withstand winds of force 12







The actual version is made from custom made black fiberglas spreaders. The feeding system is inside the center mast and the feeding is from the bottom. All parts are from UV-resistant materials.