

**All Dimensions in cm**

The rake is expressed as 'C' the distance from the rear face of the mast ( including track section) to the perpendicular. The perpendicular is established using a spirit level on the cabin roof flat between mast foot and main cabin hatch. Getting the boat level is fairly easy if you are on a trailer. All measurements were taken at the same time and are not claimed to be 'absolutes' but rather give a view of differences.

The view of this author is that rake has direct effect on the amount of weather or lee helm experienced. The optimum position is generally agreed to be weather helm of not more than 5 degrees in 12 to 15 knots of breeze. Any more puts the brakes on. The other appreciation is that sail shape will have been constructed around specific dimensions. So significant changes may not suit your sails. General view is that rake of 40 to 60 appears about right. The mast foot position appears less critical, but note the limitation in the class rules on how far back it can go - too much and your boom will foul the back stay!

	Measured	Measured	Measured	Est	Calc	Calc	Calc	
	A	B	C	D	E	Y	X	
	Front of mast to tack	Mast Foot to Hounds	Back of mast section to perp	Deck to Foot	Horiz Dist Front of Mast to Tack	Cabin top to hounds	Forestay Length	Difference in X
Witch Bitch	217	615	18	30	215	615	689	41 less
Swan Witch	220	615	31	30	218	614	694	28 less
Absconder	216	615	33	30	214	614	693	26 less
Calypso	220	615	40	30	218	614	697	19 less
Shee Rua	220	615	59	30	218	612	703	0 Shee
Canning Witch	219	615	60	30	217	612	703	-1 more
Witchy Poo	216	615	85	30	214	609	709	-26 more

