

2009 February UPDATE

The width between the back fins spacings are a rough guide. Download the 'Width between the back fins formula' for a more detailed table of different widths for different length boards

Mckee M4 Quattro & Mckee M5 Multisystem Formula for Shortboards & Guns

Board length	Standard Rounded		Square Tail & Swallow Tail Positions		Thruster tail fin for M5 Multisystem	
	Distance from tail	Back fins	Distance from tail	Front Fins		
5' 6"	12.6 cm	4-15/16"	27.1 cm	10-11/16"	8.3 cm	3-1/4"
5' 9"	12.8	5	27.4	10-13/16"	8.3	3-1/4"
6' 0"	12.9	5-1/16"	27.7	10-15/16"	8.4	3-5/16"
6' 3"	13.0	5-3/16"	28.0	11-1/16"	8.6	3-3/8"
6' 6"	13.3	5-5/16"	28.7	11-5/16"	8.8	3-7/16"
6' 9"	13.8	5-7/16"	29.4	11-9/16"	8.9	3-1/2"
7' 0"	14.3	5-5/8"	31.1	12-1/4"	9.1	3-9/16"
7' 3"	14.8	5-13/16"	31.8	12-1/2"	9.2	3-5/8"
7' 6"	15.3	6"	32.5	12-13/16"	9.4	3-11/16"
7' 9"	15.8	6-1/4"	33.2	13-1/16"	9.5	3-3/4"
8' 0"	16.3	6-7/16"	33.9	13-3/8"	9.7	3-13/16"
8' 3"	16.8	6-5/8"	34.8	13-11/16"	9.8	3-7/8"
8' 6"	17.3	6-13/16"	35.3	13-15/16"	10.0	3-15/16"
8' 9"	17.8	7"	36.0	14-3/16"	10.2	4"
9' 0"	18.3	7-3/16"	36.7	14-7/16"	10.3	4-1/16"
9' 3"	18.5	7-5/16"	37.4	14-3/4"	10.5	4-1/8"
9' 6"	19	7-1/2"	38.1	15"	10.6	4-3/16"
9' 9"	19.8	13/16"	38.8	15-5/16"	10.8	4-1/4"
10' 0"	20.3	8"	39.5	15-9/16"	11.0	4-5/16"

Width between back fins #	
Width at 12" up from tail	
12-1/2" & under	5-1/16"
12-3/4"	5-1/8"
13"	5-3/16"
13-1/4"	5-3/8"
13-1/2"	5-9/16"
13-3/4"	5-3/4"
14"	5-15/16"
14-1/4"	6-1/8"
14-1/2"	6-5/16"
14-3/4"	6-1/2"
15"	6-11/16"
15-1/4"	6-7/8"
15-1/2"	7-1/16"
15-3/4"	7-1/4"
16"	7-7/16"
16-1/4"	7-9/16"
16-1/2"	7-13/16"
16-3/4"	8"
17"	8-3/16"
17-1/4"	8-3/8"
17-1/2"	8-9/16"
17-3/4"	8-3/4"

For pintails add 0.5cm (3/16") to back side fin distances

Fin positioning is based on tail area in relation to the 'Sweet Spot' of back foot placement. Search for the happy medium.

Fine tuning the Quattro cluster for narrow tails.				
note: for pintails also add the 0.5cm (3/16") to back fins before this addition				
tail width at 12" up				
	Pintails		Square & Swallowtails	
13"	0.3 cm	1/8"	0 cm	0"
12-3/4"	0.6 cm	1/4"	0.5 cm	3/16"
12-1/4"	0.9 cm	3/8"	0.9 cm	3/8"
11-3/4"	1.3 cm	1/2"	1.6 cm	5/8"
11-1/4"	1.6 cm	5/8"	1.9 cm	3/4"
10-3/4" & Under	1.81 cm	13/16"	2.55 cm	1"

FIN DIRECTION COMPENSATION		
Compensation for all boards 5'10" & Under		
Add this amount to distance from stringer at nose		
5' 10"	+ 0.2 cm	+ 1/16"
5' 9"	+ 0.35	+ 1/8"
5' 8"	+ 0.5	+ 3/16"
5' 7"	+ 0.65	+ 1/4"
5' 6"	+ 0.8	+ 5/16"
5' 5"	+ 0.95	+ 3/8"
5' 4"	+ 1.1	+ 7/16"
5' 3"	+ 1.3	+ 1/2"
5' 2"	+ 1.45	+ 9/16"
5' 1"	+ 1.6	+ 5/8"
5' 0"	+ 1.75	+ 11/16"

FIN DIRECTION DATA IN DETAILED FORM

AT 12" 30.4CM FROM TAIL		Distance from stringer at nose				
TAIL WIDTH		FRONT cm		BACK cm		
cm	30.4		inches		inches	
	31.1	12"	3.7	1-7/16"	0.6	1/4"
		12-1/4"	3.8	1-1/2"	0.6	1/4"
	31.7	12-1/2"	3.9	1-9/16"	0.6	1/4"
	32.4	12-3/4"	4.1	1-5/8"	0.6	1/4"
	33	13"	4.3	1-11/16"	0.6	1/4"
	33.6	13-1/4"	4.5	1-3/4"	0.6	1/4"
	34.3	13-1/2"	4.6	1-13/16"	0.8	5/16"
	34.9	13-3/4"	4.7	1-7/8"	1	3/8"
	35.6	14"	4.9	1-15/16"	1.1	7/16"
	36.2	14-1/4"	5.1	2"	1.3	1/2"
	36.8	14-1/2"	5.2	2-1/16"	1.4	9/16"
	37.5	14-3/4"	5.4	2-1/8"	1.6	5/8"
	38.1	15"	5.6	2-3/16"	1.8	11/16"
	38.7	15-1/4"	5.7	2-1/4"	1.9	3/4"
	39.4	15-1/2"	5.9	2-5/16"	2.1	13/16"
	40	15-3/4"	6	2-3/8"	2.3	7/8"
	40.6	16"	6.2	2-7/16"	2.4	15/16"
	41.3	16-1/4"	6.3	2-1/2"	2.6	1"
	41.9	16-1/2"	6.5	2-9/16"	2.7	1-1/16"
	42.6	16-3/4"	6.7	2-5/8"	2.8	1-1/8"
	43.2	17"	6.8	2-11/16"	3	1-3/16"
	43.8	17-1/4"	7	2-3/4"	3.2	1-1/4"
	44.4	17-1/2"	7.2	2-13/16"	3.3	1-5/16"
	45.1	17-3/4"	7.3	2-7/8"	3.5	1-3/8"

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