

standard panel

builder	HSH	NGR	BurntCoil (french panel)	BurntCoil (London panel)	BurntCoil (Tall Blond)	Aagas	Veleric	Anie (Tallboy)	Jarroodhaas (Tonewood DML Speaker)
post	#4116	#4120		#761	#1165	#2712	#838	2548	#2551
membran (material, thickness)	3mm poplar plywood	3mm Birch Ply	4mm poplar plywood	610x1200mm 3mm think Beech Ply 'Laserboard'	Scandinavian Birch plywood 1160x300mm	aluminium honeycomb	Revolution Ply underlayment plywood	plywood	
dimensions (WxH)	420 x 1200mm	305 x 762mm (12x30 inch)				70 3/4" high x 20 1/4" wide (1,80 x 0,51m) 3/8" (9,5mm)	16" x 23" (406 x 584mm) x .2" (5mm)		
coating	highly diluted varnish	3 thin coats of aerosol water-based poly				yes	Minwax "natural" stain and 3 light coats of Formby's Tung Oil Finish on the face		
shape detail	rounded corner R80mm	square angle				square angle	square angle		
spline	yes	no (frog legs)				no	yes with absorber between exciters and spline		
exciter	Dayton Audio DAEX25FHE-4	Dayton DAEX25Q-4					two Dayton Audio DAEX25FHE-4		
exciter gluing	original double side tape								
exciter position	offcenter H0.,39, V 0,36 (inspired by the IEC baffle)	basic 3/5, 2/5 node				center	The exciters are both at about 0.47 along the long side and at 0.3 and 0.44 across the short side.		
bandwith	about 150Hz to 20k	about 90Hz to 16kHz with sub					see post 848 (close range measurement)		
mounting method	frame with full 17x17mm foam suspension	surface mounted with foam tape to poplar frames		horizontal, 160mm from rear wall		3 points (2 at the botton, one on the top)	frame with EPDM foam (12" and 9" long)		
equalization	no	a little bit of parametric eq to smooth out the peaks and dips				no			
bass protection	no					no			
bass extention	no	2.1 configuration with a 10" velodyne sub	IB sub	IB sub					
Filter	no	Dayton DSPB-K				no	yes		
HP filter		3rd order 110Hz	200Hz	200Hz			160Hz		
LP filter		?							
H m	1,2	0,762				1,80	0,58		
W m	0,42	0,305				0,51	0,41		
A m²	0,50	0,23				0,92	0,24		
H/W	2,86	2,50				3,49	1,44		

canvas type

<b>Builder</b>	<b>Jaxboy</b>	<b>Spedge</b>
<b>post</b>	<a href="#">#4050</a>	<a href="#">#4071</a>
<b>membran (material, thickness)</b>	canvas	canvas
<b>dimensions (WxH)</b>	305 x 406 (12x16inch)	30cm x 42cm
<b>coating</b>	both sides with acrylic paint instead of pva/water, thinned to 30-50:70-50	
<b>mounting pad</b>	4x6 rounded piece of paneling	balsa ply 2mm x15cmx10cm
<b>spline</b>	yes (soft mounting)	
<b>exciter</b>	Dayton Audio DAEX25FHE-4	
<b>exciter gluing</b>	original double side tape	
<b>exciter position</b>	center	
<b>bandwith</b>		
<b>mounting method</b>	Hang the panels about 3 feet apart and a foot from a window, with doubled drapes	
<b>equalization</b>		
<b>bass protection</b>	100 $\mu$ F	
<b>bass extention</b>		
<b>Filter</b>		
<b>HP filter</b>		
<b>LP filter</b>		
<b>H m</b>	0,41	0,42
<b>W m</b>	0,30	0,3
<b>A m<sup>2</sup></b>	0,12	0,13
<b>H/W</b>	1,33	1,40

membrane material

3,5

material	mu kg/m <sup>2</sup>	D N.m	$\sqrt{D/\mu}$
XPS 20	0,63	10	3,98
XPS 9	0,3	1,3	2,08
EPS 20	0,36	5	3,73
PLY 3	1,6	20	3,54
Compo balsa	0,6	7,35	3,50
NXT ?	0,55	1,2	1,48
Paper on nomex 5mm	0,44	18,4	6,47
Tectonics DML100 ?	0,4	2,6	2,55
Polyester on paper honeycomb	0,5	3,4	2,61
Balsa 3mm	0,45	8,4	4,32

thread history

date	post	page	topic	author	comment
06/04/15	1	1	1st post	xrk971	
26/05/16	250	10			
12/08/19	<a href="#">410</a>	21	how to maximize performance	Burntcoil	DML's sound like nothing else for the money with outstanding VFM and WAF.
17/09/19	500	25			
07/11/19	750	38			
09/11/19	<a href="#">761</a>	40	London panel	Burntcoil	
17/11/19	<a href="#">838</a>	42	Veleric's plywood panel	Veleric	I'm really encouraged. They sound better than I expected for a first attempt.
05/12/19	<a href="#">877</a>	44	Canvas panel	OffGridKindaGuy	
19/12/19	<a href="#">969</a>	49	ABH	Burntcoil	
12/01/20	<a href="#">993</a>	50	London panel pictures	Burntcoil	
15/01/20	1000	50			
22/02/20	<a href="#">1165</a>	59	Tall blondes	Burntcoil	
01/03/20	1250	63			
27/03/20	<a href="#">1458</a>	73	DML Patents	Burntcoil	
29/03/20	1500	75			
07/04/20	1750	88			
25/05/20	2000	100			
20/08/20	2250	113			
10/11/20	2500	125			
01/12/20	<a href="#">2548</a>	128	Tallboy (with pictures)	Anie	
28/02/21	<a href="#">2712</a>	136	Alu honeycomb panel	Aagas	I don't have any idea what you've done, but this is f_____ing amazing
03/03/21	2750	138			
25/04/21	3000	150			
29/04/21	<a href="#">3024</a>	152	Spedge's canvas picture	Spedge	
19/06/21	<a href="#">3251</a>	163	Jaxboy's canvas panel picture		
19/06/21	<a href="#">3252</a>	163	Alu + foam receipe	Aagas	
14/08/21	3500	175			
30/08/21	<a href="#">3619</a>	181	1st reflections and ABH (acoustic black hole)	Pway	
11/09/21	3750	188			
08/11/21	4000	200			
16/12/21	<a href="#">4116</a>	206	Homeswinghome's ply panel	Homeswinghome	
17/12/21	<a href="#">4120</a>	206	NegativeGhostrider's ply panel	NegativeGhostrider	
	4250				
	4500				

# post graph

## A Study of DML's as a Full Range Speaker

