
Subject: Wood used in 4PI construction

Posted by [mantha3](#) on Wed, 30 May 2012 13:37:47 GMT

[View Forum Message](#) <> [Reply to Message](#)

Wayne, others,

What wood do you use for the cabinet on 4PI speakers? I see the wood options on the 4PI when you buy built. I was wondering if this is the veneer and all of the boxes are built with MDF?

I was going to build. I've built two pairs of speakers and a subwoofer using the highest grade maple ply I can find. I know using plywood for speakers is debatable. I've had great sound. Some say the plywood does not seal. I use silicone in the joints and use in the inside of the speaker. I also stain and poly the outside. The 5 ply layers also criss cross so I feel good about the seal. The 4' X 8' sheet of this wood cost 110.00 and is the highest grade in Minnesota. I've seen a knot in one ply about the size of a silver dollar but that is about it. No buzzing etc. The speakers are built like tanks... Weigh in as tanks which can suck.

When using Baltic birch... is that solid baltic birch or a ply?

Just curious on build material I guess.

Thanks,
Andy

Subject: Re: Wood used in 4PI construction

Posted by [Wayne Parham](#) on Wed, 30 May 2012 14:15:38 GMT

[View Forum Message](#) <> [Reply to Message](#)

The problem with plywood isn't sealing the corners, it's the possibility of voids between laminations. Where there are voids, there is the likelihood of debris in the voids, which causes the cabinet to buzz. Honestly, the only plywood I trust is baltic birch. Most others will have voids, and some are pretty bad.

If you aren't going to move the speakers a lot or use the speakers outdoors or in humid environments, I would suggest MDF. If they will be moved a lot (like sound reinforcement speakers) or if they might be subject to water or humidity, use baltic birch plywood. In either case, an attractive, high quality wood veneer can be applied for aesthetics.

Subject: Re: Wood used in 4PI construction

Posted by [mantha3](#) on Thu, 31 May 2012 13:13:23 GMT

[View Forum Message](#) <> [Reply to Message](#)

I think I may run with Baltic Birch. I like a real solid box for speakers.

How does Baltic Birch look without a veneer? If you build with it and just sand the finished speaker cabinet and apply a good stain... Does that look good or do you need to run a veneer over it? I know this is probably some opinion type material here... Just curious to hear your opinion on this.

Thanks for the time Wayne!

Andy

Subject: Re: Wood used in 4PI construction
Posted by [mantha3](#) on Thu, 31 May 2012 13:14:22 GMT
[View Forum Message](#) <> [Reply to Message](#)

PS - I'd buy the highest grade Baltic Birch I can get... In regards to the question I just asked.

Subject: Re: Wood used in 4PI construction
Posted by [Wayne Parham](#) on Thu, 31 May 2012 15:44:14 GMT
[View Forum Message](#) <> [Reply to Message](#)

Birch has an attractive light color tone with fairly straight grain. It has a uniform texture with closed pores that are easy to finish. Many people use it without applying any other veneer.

Subject: Re: Wood used in 4PI construction
Posted by [mantha3](#) on Fri, 01 Jun 2012 12:51:46 GMT
[View Forum Message](#) <> [Reply to Message](#)

I'm going to run with Baltic Birch. I did read up on the wood. It seems it comes in 5' X 5' X 3/4" more than 4' X 8'.

I had to find a source of better grade B. Some places only had the "BBB" lower grade that has the football patchwork in the veneer. I have a place that has "B"/"BB" grade sheets of 5' X 5' X 3/4". "B" grade on one side meaning perfect veneer and then the other has the football patch work that has the football patch matching wood tone.

Thanks Wayne. I think I'm going to build this fall and doing some research at this time.

What do you charge for the 2226h and the B&C driver for the upgraded 4PI? PM or e-mail me this if you can please.

Thanks,

Andy

Subject: Re: Wood used in 4PI construction

Posted by [Wayne Parham](#) on Fri, 01 Jun 2012 20:11:08 GMT

[View Forum Message](#) <> [Reply to Message](#)

Check the shopping cart for prices and upgrade options. Each option has a drop down box showing what's available and the prices.
