Subject: Smith Horn Group Build - Please Complete Survey
Posted by GarMan on Fri, 15 Sep 2006 15:06:36 GMT
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There seems to be some good interest in a Smith Horn group build project. If you are interested, please complete the survey below to determine the level and type of "prep work" we're looking for.Throat Size:- 1"- 1.5"- 2"Pre-fab Components:- Vanes- Throat Plate- BodyVane Pre-fab:(What type of joinery are you looking for? A mortise joint will require an increase in the vane to account for the tenons. Dowel joints can use the same vanes as butt-joints)- Flat butt joint- Mortise jointThroat Adaptor:- Straight bore- Circular to rectangular transitionPre-fab Material:- MDF- hardwoodPlease add any other questions you think I may have missed.gar.

Subject: Re: Smith Horn Group Build - Please Complete Survey
Posted by GarMan on Fri, 15 Sep 2006 15:09:45 GMT
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Here's my response:Throat Size:- 1"Pre-fab Components:- VanesVane Pre-fab:- Flat butt jointThroat Adaptor:N/APre-fab Material:- hardwood

Subject: My survey
Posted by SteveBrown on Fri, 15 Sep 2006 15:49:52 GMT
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Throat Size:- 1"Pre-fab Components:- Vanes- Throat PlateVane Pre-fab:- Flat butt jointThroat Adaptor:- Straight borePre-fab Material: either

Subject: ditto (nt)
Posted by colinhester on Fri, 15 Sep 2006 16:37:22 GMT
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Subject: Re: Smith Horn Group Build - Please Complete Survey
Posted by Manualblock on Fri, 15 Sep 2006 17:33:15 GMT

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Here's mine:1"Vane Throat PlateBodyMortise/ either one is fine but I like the joint integrity of the mortise and I don't see why it would be a lot more money so why not?I would like to use one of my Altec drivers so I would assume that means rectangle to circle? If not then eithor one will do.Hardwood; I guess plywood is out of the question then? Baltic Birch?Looks good so far.Thanks for doing this survey Garman.

Subject: Re: Smith Horn Group Build - Please Complete Survey
Posted by PakProtector on Fri, 15 Sep 2006 19:33:06 GMT
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Hey-Hey!!!,I am not sure what you mean by 'vanes'.anyway...1.375 throat.Conical section, 19" axial length8 petals to approximate the cone, 13 mm, 11-ply birch?35-degree included angle/flare, maybe 40Mating to two-bolt old RCA compression driver. Throat terminated in the mounting plate, perhaps 1/4" copper? no special throat section.cheers,Douglas

Subject: Re: Smith Horn Group Build - Please Complete Survey
Posted by GarMan on Fri, 15 Sep 2006 20:54:25 GMT
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The vanes are the petals inside the horn to create the flare.

Subject: Re: Smith Horn Group Build - Please Complete Survey
Posted by PakProtector on Fri, 15 Sep 2006 21:06:14 GMT
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Oh, got you...:)Yes, 8 vanes. Probably 40-degrees included, or at least that is what my notes say. Now to get the good plywood.The issue I have is that it requires a 22.5 degree miter. With a serious tool shortage, this isn't easy to step around. The back plate/mount is quite easy by comparison...:)cheers,Douglas

Subject: Re: I'll listen to Steves. Enough unfinished projects. nt
Posted by Bill Epstein on Fri, 15 Sep 2006 21:57:35 GMT

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Subject: Sounds good to me! (nt)
Posted by SteveBrown on Fri, 15 Sep 2006 23:39:34 GMT
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nt

Subject: A bit of info
Posted by wunhuanglo on Sat, 16 Sep 2006 09:37:25 GMT
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I have a pair of Visaton 1-inch throat adapters for their Smith horn.The round inlet is 25mm (1 inch) diameter, measured with a scale.The outlet is 42mm (1-5/8 inch) horizontal by 32mm (1-1/4 inch). vertical.The transition distance is 70mm (2-3/4 inch) face-to-face.If you use the Westlake-style adapter this won't make any diference, of course.FWIW,Charlie

Subject: You know you want to
Posted by colinhester on Sat, 16 Sep 2006 13:39:04 GMT
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Come on, Bill. Play with us. Pleeeeeease.....

Subject: Re: You know you want to
Posted by GarMan on Sat, 16 Sep 2006 13:44:41 GMT
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Yah. How long will it really take you to slap a couple of pieces of wood over the vanes?

Subject: Re: A bit of info
Posted by GarMan on Sun, 17 Sep 2006 03:45:05 GMT
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The 1.25" vertical outlet seems strange to me. The plans for smith horns I've seen all have a lower outlet than inlet.For example, the JBL 2328 throat adaptor transitions 2" drivers down to 1-3/8" height into 2397 horns.

Subject: Re: A bit of info
Posted by wunhuanglo on Sun, 17 Sep 2006 18:52:50 GMT
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That's why I posted it; on the off-chance somebody may find it significant. It certainly is diferent than the common understanding. The Visaton horn is 90mm thick O/A; by eye the height of the vanes looks at least 25mm.
Visaton 300 Horn

Subject: Re: Smith Horn Group Build - Status please
Posted by Scholl on Sun, 14 Jan 2007 13:23:03 GMT
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Is this build going forward. I'd be interested in a pair. Smith Horns look good for MTM type designs.THanks, Scott Scholl