

nominal
modular

45 Degrees

Standard 19" Rack Assembly Instructions



IMPORTANT SAFETY INSTRUCTIONS

 **CAUTION:** This product has sharp points and edges.
Please handle with care.

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INSTRUCCIONES IMPORTANTES DE SEGURIDAD

 **ATTENTION:** Este producto tiene puntas y bordes afilados.
Por favor, manéjelo con cuidado.

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INSTRUCTIONS DE SÉCURITÉ IMPORTANTES

 **PRECAUCIÓN:** Ce produit comporte des pointes et des
arêtes vives. Veuillez le manipuler avec précaution.

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 **重要な安全上のご注意**
注意

本製品には鋭利な先端部および縁部があります。
けがを防止するため、必ず慎重にお取り扱いください。

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Liability Waiver

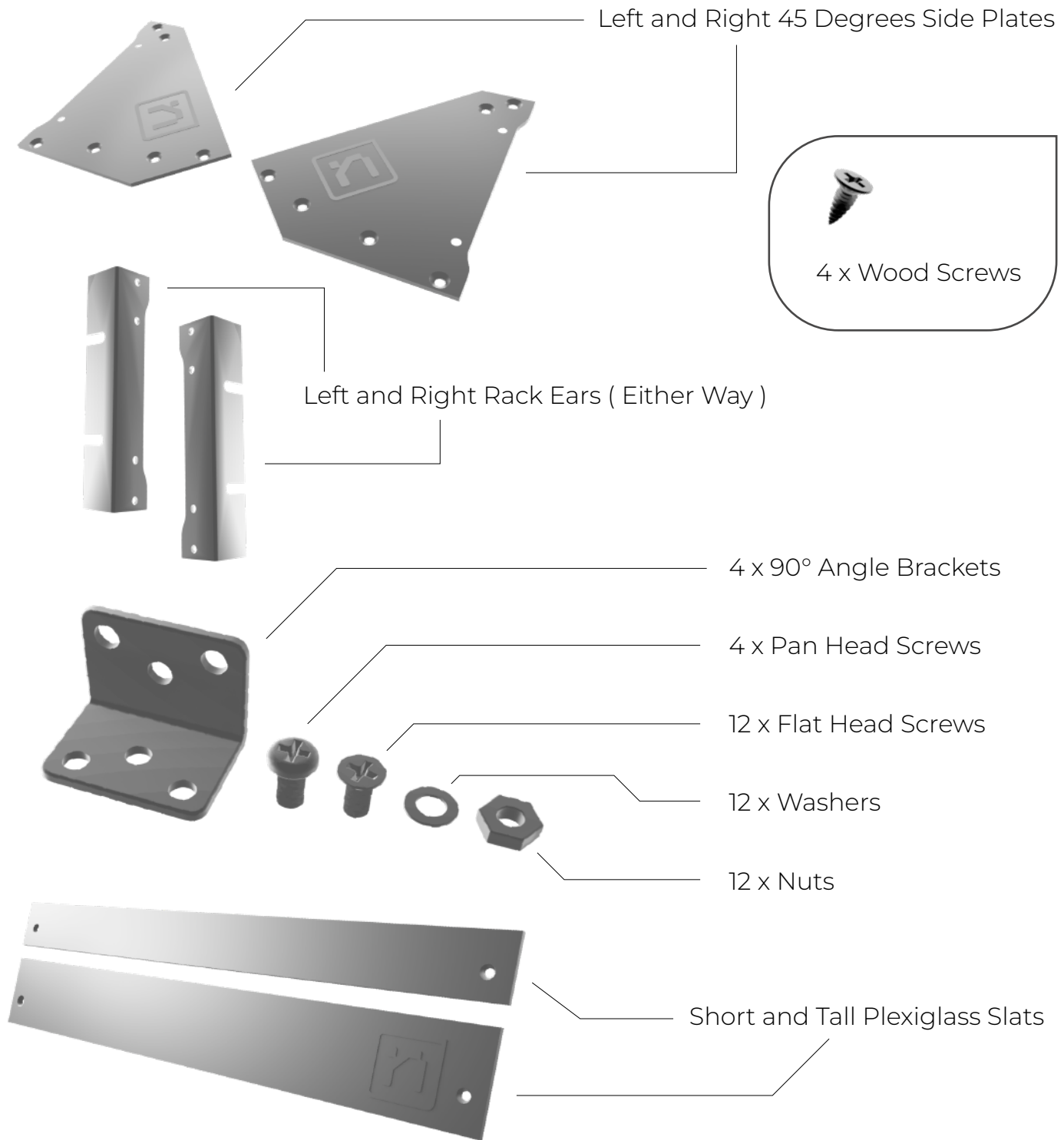
By assembling and using this product, you acknowledge and accept
that Nominal Modular is not responsible for any injury, damage, or loss
arising from its use. All risks are assumed solely by the user.

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TOOLS YOU WILL NEED:



1. Phillips Head No. 2 (standard)
(Do not use power drill as it maybe cause injury)
2. Small Pliers or MM Hex Socket Wrench
(You may also hand tighten mostly everything)



* Currently only compatible with: 84HP TipTop Audio ZRails and 84HP TipTop Audio Happy Ending Kits
(Rails are not included)



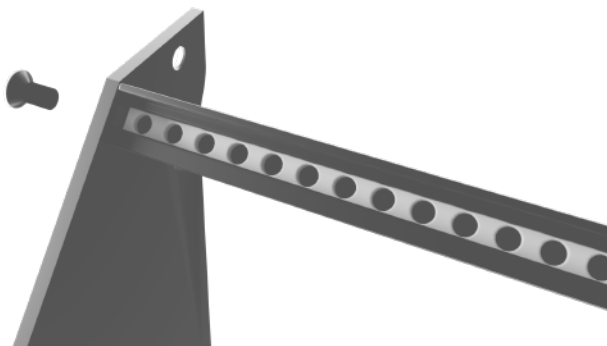
Position left side plate as seen on a flat surface and ensure ample work space that will accommodate the length of the 45 Degrees rack.

Position what will be your bottom rail and align with the rail screw hole and the countersunk hole on the plate as seen and hand tighten.

Do not over tighten

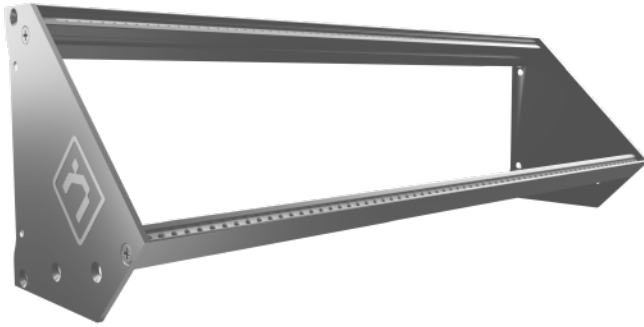


Now you can continue and complete the right side.



Next, turn the unit right side up and attach your top rail at a 45° angle by aligning screw holes on your rail like you did for the bottom rail..

Do not over tighten

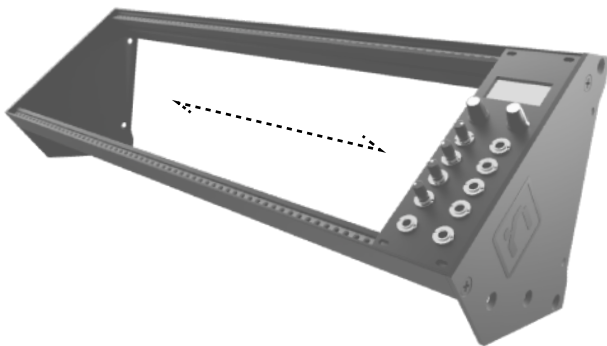


At this point the unit should start looking like it should.



Next, drop in a module or two.

You won't need any knurlies, screws or ribbon cable for this next step.



Slide the modules back and forth and make sure any of the slight gaps (slight top and bottom gaps are normal to accommodate any of your current and future modules) are even from left to right.

Drop in one module on each end and you can now tighten down your rack screws nice and tight.



Left and right sides use 2 x pan head screws, 2 x washers and 2 x nuts.

Make sure you have these rack ears even with the side plates as best as possible. You can achieve this on your flat work surface and adjusting the pieces so your backside dips on the side plate and the rack ears are even.

The rack ears can go for either left or right

If you notice the washer has a sharper edged side than the other. Face the sharper side down toward the metal side plate so it “bites” in to the metal better. This will also help if you are simply hand tighteining but it is best to have something like a simple pair of pliers to prevent the nut from spinning while tightening. down the screws from here on out.

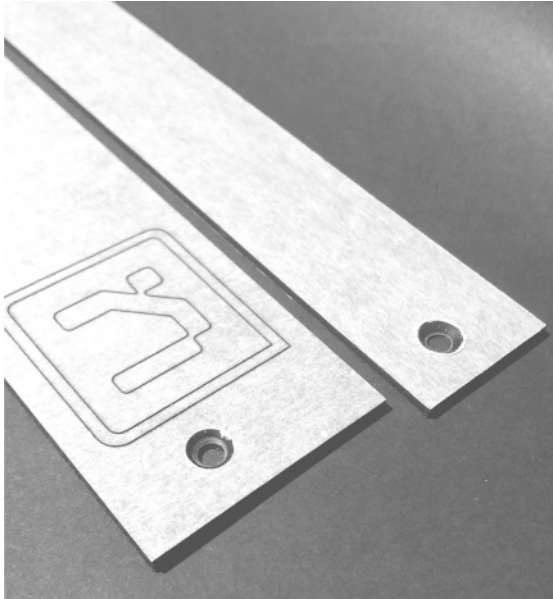
We can see the left hand side being assembled in the way it should.



After completing the left side it should look like its shown here.

Continue onto the right hand side to complete this stage of assembly.

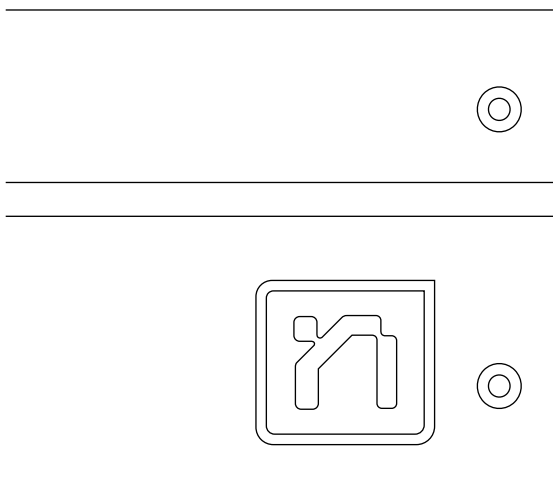
45 Degrees



We will now address the slats that will keep all of your module's ribbon cables nicely tucked away in your new hybrid rack/case.

The two included slats come with a protective layer on both sides that you can easily peel off.

Matte side faces out.

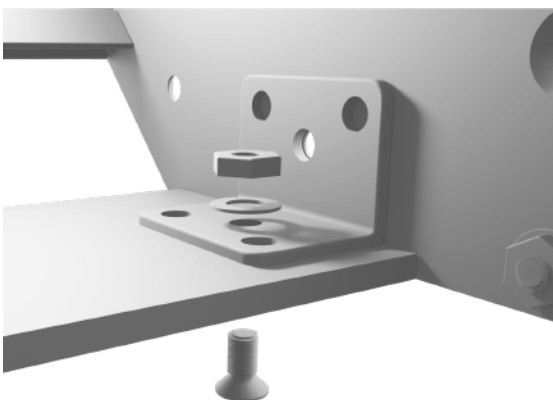


ANGLED SLAT

Notice that the front face of the slats have a countersunk screw hole.

BOTTOM SLAT

These holes are slightly closer to the bottom on each piece.

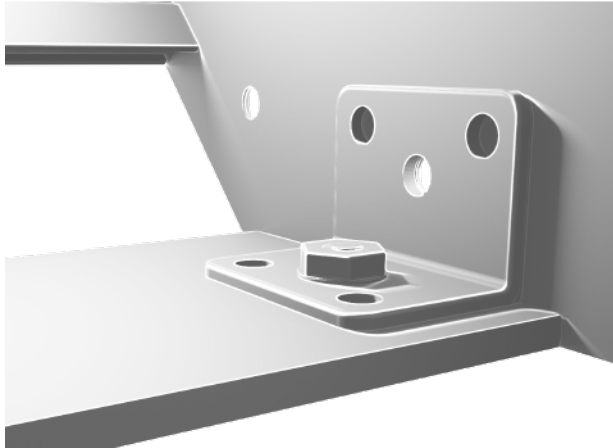


Both slats have 2 x holes for attaching to the left and right side plates. You will only need to concern yourself with the center holes of the included brackets.

These will take flat head screws, brackets, washers and nuts. They should be put together in the way shown.

Do the same for the other side.

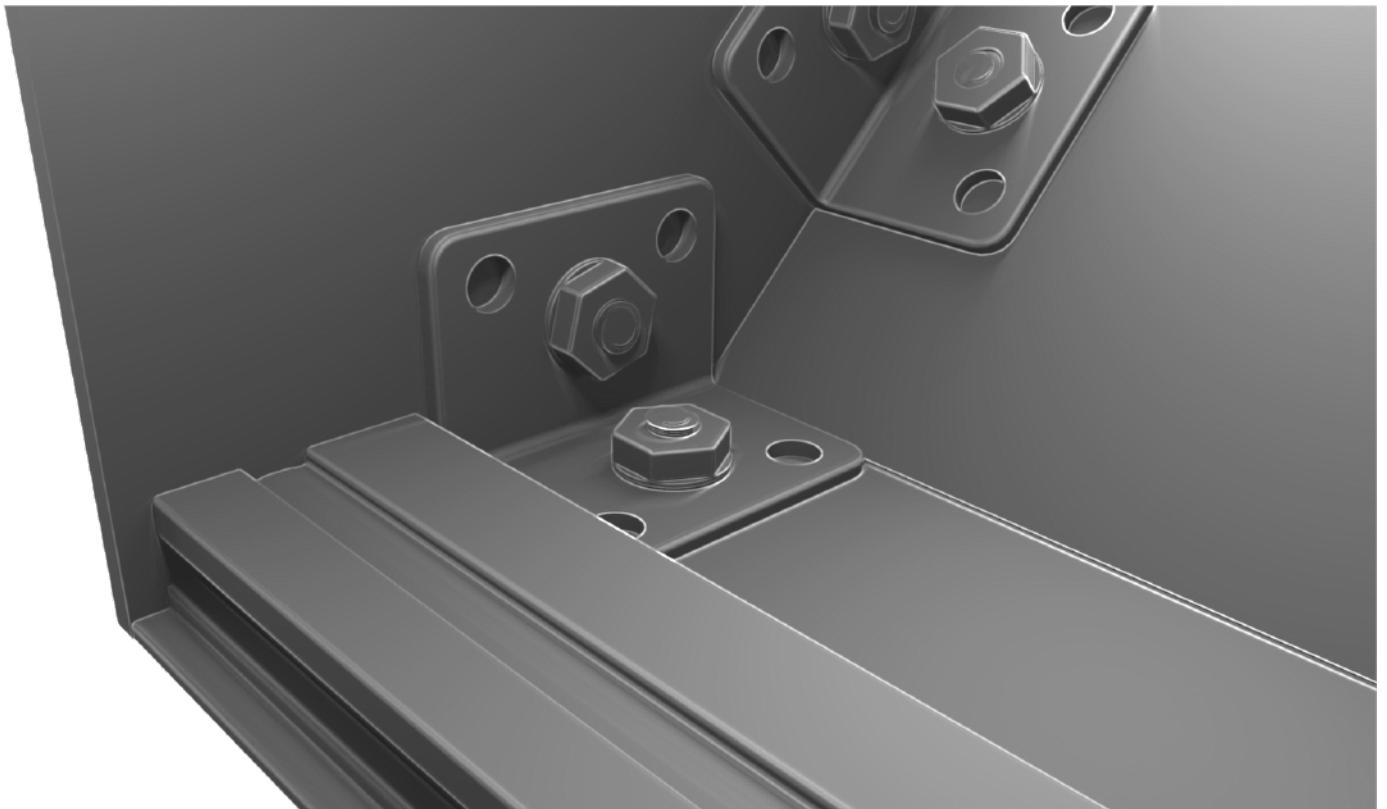
Do not over tighten these slats yet as they should be finessed into place once the slats are both on.



To make this easier on yourself use your flat work surface to make sure the slat is flat and even with the bottom of the side plate.

Attach to the side plate with flat screw, washer and nut same as the previous illustration.

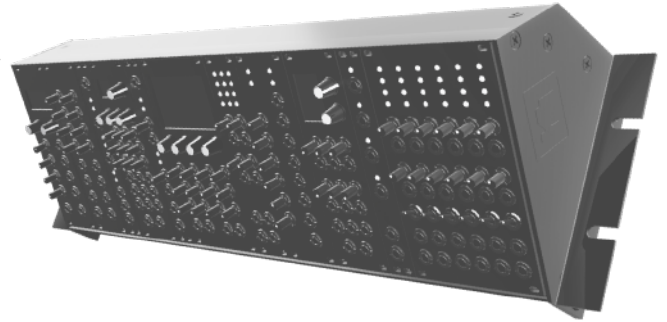
Do the same for the other side.



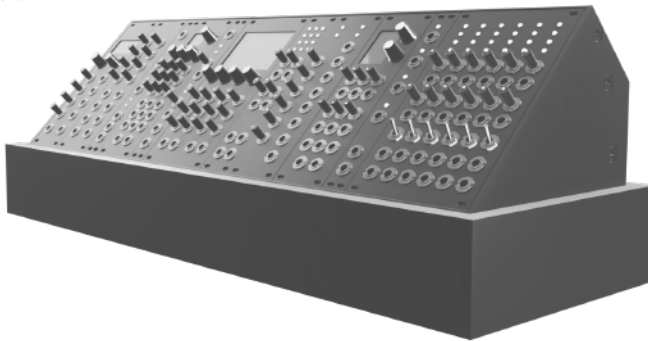
Next turn the unit so that the front is flat on your work surface. Follow the same steps as the bottom slat. Once everything is in evenly then do tighten everything down at this point. Your done! All you need to do is mount it to your standard 19" studio rack and enjoy! (send me pictures!)

There are many ways to utilize 45 Degrees.

Lets say you have a tall 16U Rack? You can now use it upside down and access the modules on the top row without a problem...



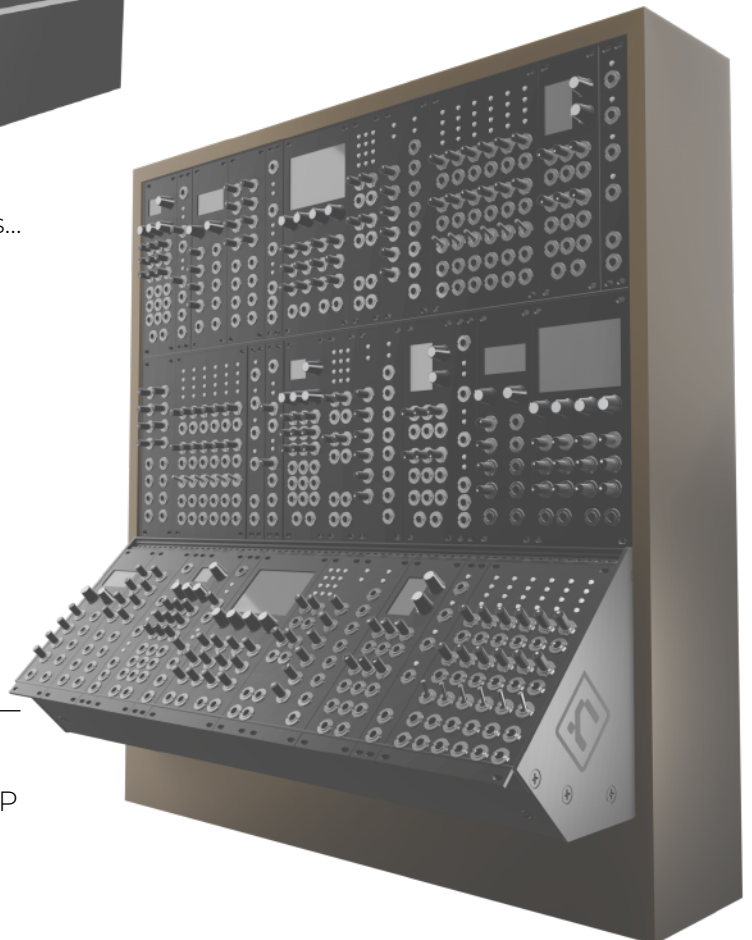
You can easily make a "pod" style case and remove the ears...



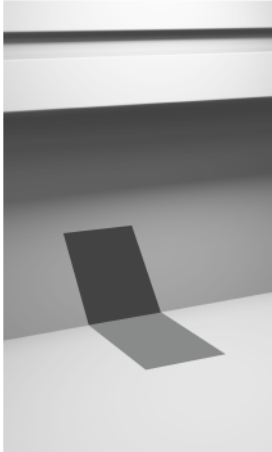
You can use it in a 19" standard rack with the ears...



You are already have a DIY case and using a 84HP ZRail system by TipTop Audio you now have a lot more freedom and modular use of your case.

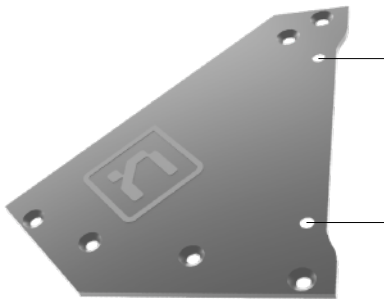


You can always use 45 Degrees to make a simple DIY case from scratch.



QUICK TIP:

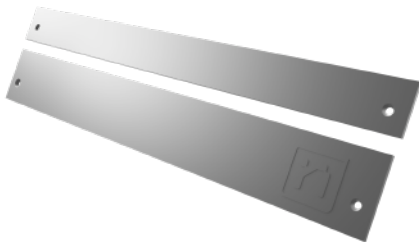
If one or both slats want to stay bowed you can use a simple piece of tape on the inside to keep them together in your chosen position.



QUICK TIP:

45 Degrees is considered a hybrid rack/ case for a reason. Having removable rack ears to use in a DIY case of a diy pod scenario makes it a very useful and versatile addition to any eurorack set up.

There are 4 x wood screws included and the side plates have countersunk inside holes to make it a painless and useful transition.



QUICK TIP:

Don't be afraid to customize your slats! Paint, stickers or whatever!

If you are going to paint just do a bit of research for the best acrylic plastic spray primer.

STAY TUNED!

More exciting things coming in the near future.

