

COMMANDS: 001 AS – EDITING

AS - Add Support.

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Now to add a support to a truss, this needs to be done in the panel drawings.

For us to add a support, let's say for example we need to add in a solar panel that we missed. So, we'll throw this solar panel in here and let's say it's got the 5 kN per square meter load. And we don't want to delete and rebuild all our trusses.

We just want to add a support to say ST1. Add the load to ST1 with the support. We're going to our truss. We find ST1. Let's do a point load just for argument's sake. Let's point load it there. Do a TTD and oh shit. It fails. So, what do we need to do?

We need to add a support along here somewhere, to help support that truss. We need to check if there's going to be a wall frame that can do that. We've got this wall frame coming along here. Let's check where that measurement is for that wall frame. So that wall frame is sitting from our centreline back to the outside end of 3535mm. So, 3535mm from this support line here into our truss is where that wall frame is.

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Let's draw a line. Move that 3535mm. And that is where our wall frame is going to be sitting. Here we will add a support right under there. Now when we check the truss again as a TTD, we're still failing because this bottom cord is taking all the load now. Obviously that top was going to fail, but this bottom cord, we need to put a web in through here. So, we will do the insert web command.

I'll take it from this point to this point, enter and enter again. Now that's thrown in a web right where that wall frame is. But we have to adjust these two webs around it because we can't have one web overlapping another.

I will use the ST command, and this is basic AutoCAD commands. This is just me moving my studs around so I can re-edit, member square, and that will reset all the ends of my moved webs and we will now do a check on that. That is still failing because now we've got a top cord here that's failing.

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Now let's double that top cord. So, there's a bit to consider when you're editing and now we've got a pass on that top cord. We'll update that. That is how you add in a support although there is a little bit more work involved depending on what you're adding the support in here for.

Knowing that you cannot add a support in, if you do not have anything below it that's going to act as a support. For example, we can't just throw in a support over here because we've got no wall frame. We can't just throw support here because there's no wall frame. There's nothing supporting it.

We need to think sensibly and add the support where the actual support is. Keeping in mind we have to re-code this frame as a load bearing frame to support those trusses.

That is AS – Add Support.