**Room 14-20240430 171250-Opname van vergadering - Trim**

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Okay, so I'm making a zoning design. Zoning is a method for searching for geometrically relevant shapes that represent a bigger picture of a building. Zoning designs can be used to create better structural designs.

Okay, there are some definitions and hurdles for zoning. I'll treat the VV as D in the assignment. So zones should be as large as possible, so a zone cannot be a subset of another zone.

Okay, let's go. Next step. Expected 25 minutes.

It is now 17.17, which is great. Read the following speech carefully. Okay, next step.

The visualization on the left shows a B as D. B as D is building speech design. AOE has found all zones and zones and designs for this B as D. Okay, go to the next step. Please refer to the information sheet for more information about zoning and structural design or as D. Spatial design, maybe.

Okay, next step. Please wait. This can take a minute.

Okay, I'm waiting. Fantastic. Pick one zone design.

You would like to continue it. Say it aloud what you think. So this is zone one.

Okay, there's the situation. Then I have this zone. So zone design one.

Let's see what's the difference between all those designs. So this is one big zone, the blue one, and the red one is over there. And then zone seven has fun design.

Yeah, okay. I don't like zone one. I don't like the zone design one.

I think it's too big. And this section is just too big. That blue section.

Zone design two is more suitable into smaller elements. So I think that is more suitable. So in design three, I don't like it because it has big parts at the top, then smaller parts underneath.

Why would you do this? I don't know. So in design four, I quite like. Yeah, I quite like.

What's the difference? I see. I think zone design four is better than zone design two. Because in zone design four, the whole thing is just one design, one zone, and I don't feel like that particularly.

The same holds for zone design five. I'm choosing zone design two because I started with more zones and it's more logical, in my opinion, and I have more freedom on what to do eventually, I guess. Also, the bottom part, so the first floor and second floor are other zones.

And also the floor is subdivided into multiple zones, and that's what I quite like actually. So I'm choosing zone design two. And I choose the next step, I'm sure.

I am sure about this. So step three, from every zone design, structural design can be made. This time, pick one zone design based on expected structural performance.

Pick one zone design based on expected structural performance of the corresponding structural design. Say it is. So I'm just looking at my screen at the moment.

I'm thinking design zone one. So I like that the bottom part is subdivided into multiple elements. That is a very big purple part which spans two floors.

I don't like that. Zone design two. Yeah, yeah, yeah.

I can get into that. It has multiple designs, multiple zones. I like that the floors are divided into multiple zones.

I like that the first and second floor are subdivided into multiple zones, so that is okay with me. Then I go to zone three. Here, let's see what's the difference with two.

Yeah, so the zones are merged together, I think, when I see this. Which is, I think it's fine. I really like zone design number three, actually.

Just this feeling that it gives more stability overall when you merge those two zones. Also zone design four. I don't like that the square is one big zone and zone design five.

I don't like that the square is one big zone. So my option would be zone design two or three. I am choosing zone design three.

Hi, you could ask and I'll answer this question. I like that all the that the floors are in three zones and I like that also the top part is divided into two zones. So I'm choosing two.

It's just more logical for my overview. So step four. Take one of the zone designs and say out loud what your reasoning is.

If you want, you can use the construction margin compliance of the structural design. That would result from each zone design. Okay, so what does structural compliance mean? Our lower compliance means higher stiffness.

So zone design one has a mass of three to nine four, four, two, four, six, two, nine, seven. Zone design two has a mass of three, seven, two, and four, five. So it's higher mass and a higher compliance.

So it's not bad than the first one. So the first one is the best. Zone design three has a mass the same as zone design two and has more or less the same compliance as two.

So it's not the best one. Zone design four and five have a higher mass and higher compliance. So higher mass is not good and higher compliance is also not good.

Lower compliance is a higher stiffness. So you want to have the lowest compliance and that is zone design one. And you want to minimize the mass, I think.

So that's just more it's just logical to put zone design one and that's the preferred zone design. And yes, okay. Step five is adapt the BSD to create a new BSD you desire with maximum of 10 modifications.

You can do the adding or deleting, moving, and resizing spaces. The next step AI will create zone designs for your new BSD. Say out loud every time you think undo.

Okay. So space number three is quite big, I see. Let me get familiar with the building first.

I want to get rid of zone number 10. I don't like that zone. So I delete space.

I delete number 10. Avoid number 10. It's just this weird shape that was added onto the building, I feel like.

And for structure design it doesn't make any sense to have this because you need new stability. You need new stability systems in place to also make this stable. So placing enter to do this.

And I want to have a new space. So I'm going to add a space. Size x, y, z. Location x, y, and z. This is kind of difficult for me.

So the size is 60. If I want to add something here, what do I have to do? Size x, y, and z. I want to add something. Where do you want to add? Here.

Okay. Where the location is, you mean? Yeah. Here as a reference.

But basically it's from the 0,0 count. Ah. Thank you.

Thank you. No pressure. X? No, it's good.

I think the y and 0 should be good, but you can see where it's going to go. This one? Yeah, try it. Oh no.

Is it working? Yeah. Did it do something? I don't know. We have a new man here.

Yeah. This is also nice. I think it's because you're going to place your y at 120.

But you can just move it now. Ah. So you have space 10.

No. Thank you. So I'm going to change this new location to 60, and y 120, and z 30.

Ah, this is what I want. This is what I want. I feel like this is great, man.

Okay. Yeah, I think it's more stable now. So we're going to choose next up, and I'll be with this.

Make sure that spaces do not... Oh, can you see that? Okay, we add a space. I'm going to do it again. Size x, y, z. So this is the size for this.

So this 120, and 60, and 30. The location is 120, 120, 30. Enter.

Oh, so we're going to move the space a little bit. Space number 10. The new location 120, 120, 30.

This doesn't work. Add space. I think I'm not made for this kind of things.

Let's make a smaller one then. I think that's also fine. 120, 1x, 60, 30.

What? No, I don't have that anymore. Size. So 60, 60, 30.

Location x, the first x is just 120. 120, 30. Did it make the most sense for me? No.

So we're gonna... Oh, fuck. I've reached my modifications. Oopsie, whoopsie.

And now span is overlapping number 9, which is not good. This can take a minute. The only way to do this is to move the space to 120, 120, 30, 120, 30, 120, 30, 120, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 120, 30, 30, 120, 30, 30, 120, 30, 30, 120, 30, 120, 30, 30, 120, 30, 30, 30, 30, 30, 30 But based on these two designs, I like zone design one more, so we're going to choose this one, and I don't like that the bottom one is one complete zone, instead I would prefer this zone, because it's more, yeah, it's more, the floor level is more, so there's different zones, that makes sense.

Step seven, I already found all zone designs from one of my DVDs, and from all these designs, pick one zone design you would like to continue with, say it out loud what you think. So I would like zone design one, for the same reason as last time, and I choose next, and also I choose next, because there's the previous one, you know, um

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