WHY THERMAL BREAKS?

If something (e.g. a ventilated facade) needs to be solidly attached to a building, then it cannot be attached to the thermal insulation (e.g. rock wool). That wouldn't be solid.

However, if you attach it directly to the building (through the thermal insulation) then the attachment is solid but you create a thermal bridge. A lot of thermal energy then escapes via these thermal bridge(s) for the entire life-time of the building!

But if you use a thermal break (between the cold side and the warm side of the attachment), then the attachment is solid and no thermal bridge is created. The building is then very energy efficient.

Did you know:
Bolts reaching through the thermal break pads of the attachments of a ventilated facade build thermal bridges. However, this only affects the R-value of the entire wall construction by about 0.002% to 0.01% (numbers game regarding thermal performance) but it increases the risk of condensation.

Be responsible, build wise!

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