



BUILD WHAT IS DESIGNED

SLAB TO SLAB SOLUTION



Agenda



- Who is U-Kon Systems.
- Build What is Designed: Design Assist
- R&D Commitment
- Thermal Performance Leader
- Systems
- Slab to Slab



ABOUT

For over 26 years U-kon Engineering has stood for innovative sub-structure systems for ventilated facades.

In collaboration with leading manufacturers of facade cladding materials, we develop and produce high-quality solutions with a focus on an optimum price and performance ratio.

Our state of the art production facility that TUV ISO 9001 certified can produce materials in short notice.

Production capacity - 240,000 m2 per month Industrial and warehouse complex - 7000 m2 Implemented facades - 21,000,000 m2 Over 40 system modifications













BUILD WHAT IS DESIGNED

-kon®

U-kon Systems provide a completely new approach in supply chain of facade materials.

We offering to all our customers a design assist service on all stages especially on a very early stage of the project.

With this approach we can eliminate most of the future problems and make installation more predictable in terms of cost, schedule and appearance.





BUILD WHAT IS DESIGNED



Preliminary design stage

Review specified stone and sizes Review layout (consider the waste factor)

Provide attachment method options
Provide structural recommendation
Fabrication recommendations
Installation tips

Value engineering of our own system



Provide detailed cost calculation Provide mockup support Installer/Fabricator support



Construction stage

Shop drawings of the entire system Installation assist Proper installation instruction and steps of the installation of the system





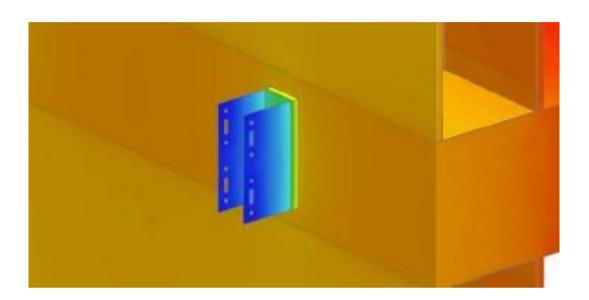


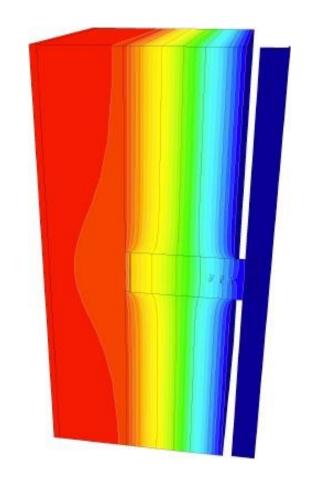
THERMAL PERFORMANCE

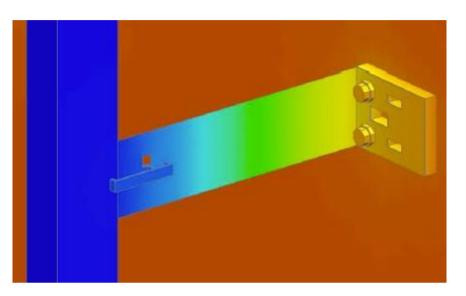
U-kon Systems can achieve the highest thermal performance requirements.

The U-kon System components Passive House certified.

The U-kon System components conducted long term actual full scale thermal tests and 3D modelling

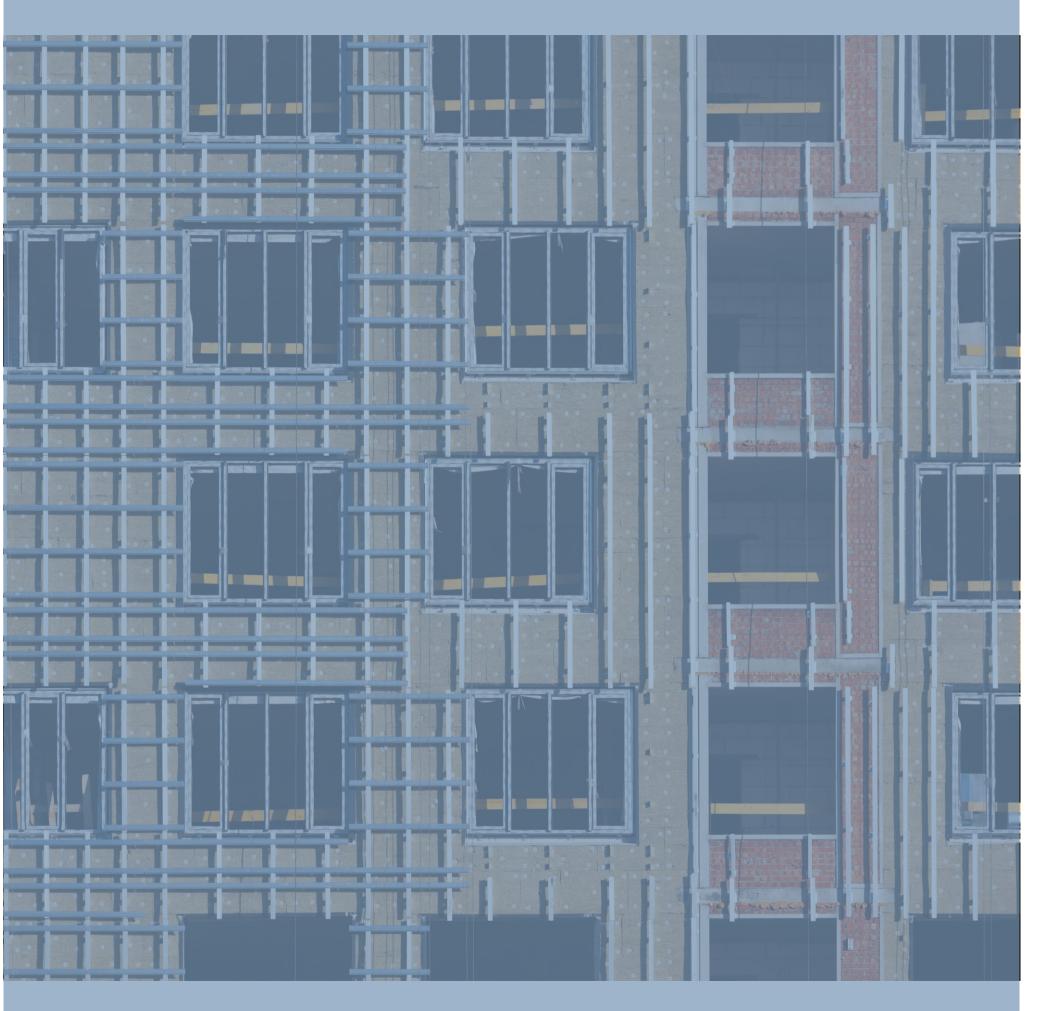












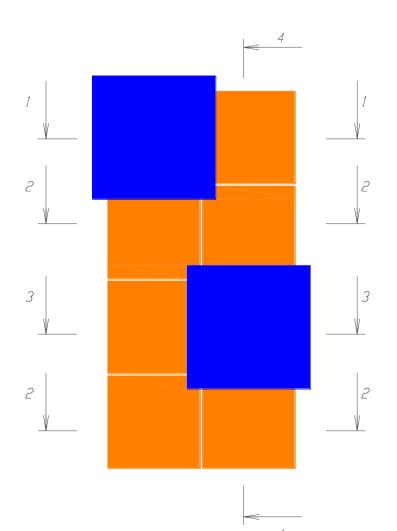
R&D

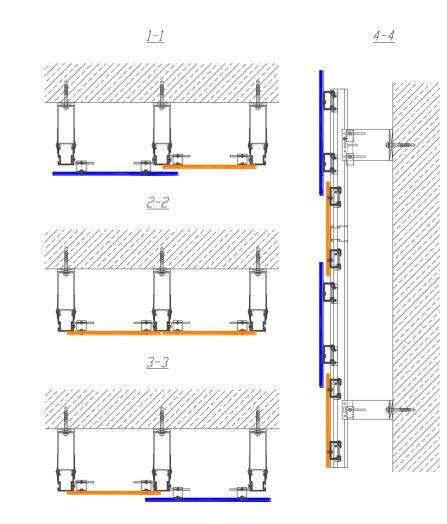


Our R&D and Engineering team are constantly in search of architectural and technical excellence of facade systems. We share our entire knowledge with our customers and provide custom solutions to reduce the increasing complexity of facade design and installation.

As part of our work, we would like to highlight the technical support provided for each project from start to end of the construction.

All our experience in design and realization make it possible for us to achieve almost any facade design.





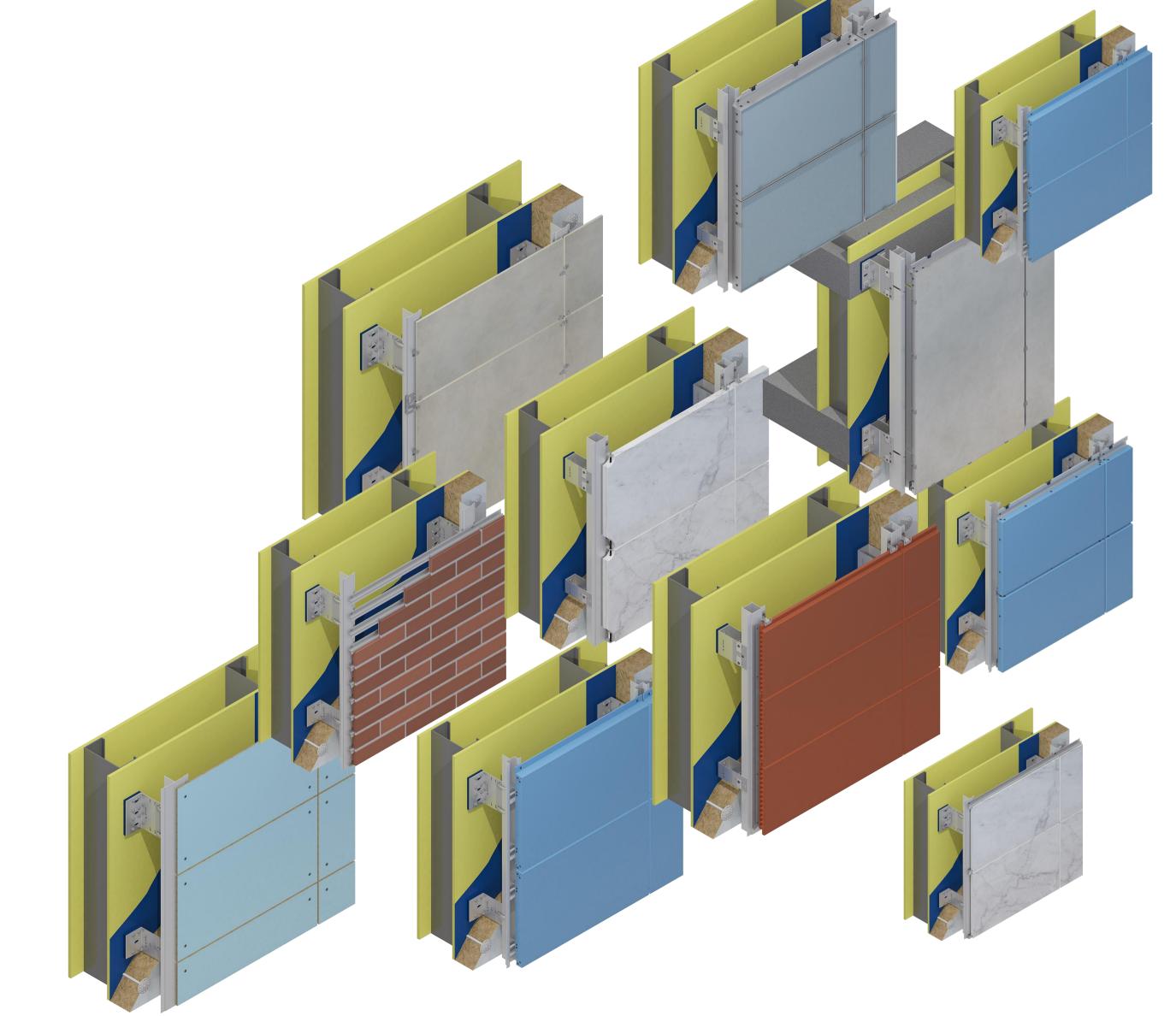
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SYSTEMS

Our substructure systems are able to adapt to the specific needs of each project.

We can provide customized systems for specific projects and provide full support at every stage of the project starting from the early design stage.

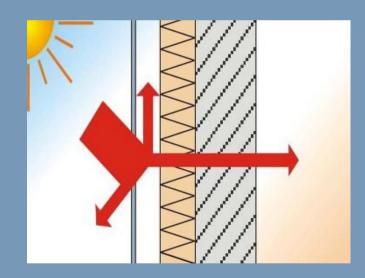
U-kon Systems has always been considered a high-quality rear ventilated facade manufacturer in terms of technology, quality and safety. All these qualities helped us to win large-scale projects such as universities, hospitals, airports stadiums etc.



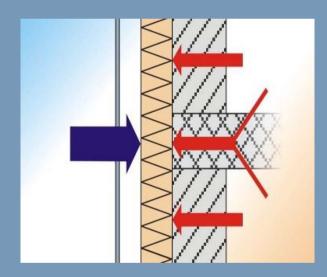


REAR VENTILATED SYSTEM

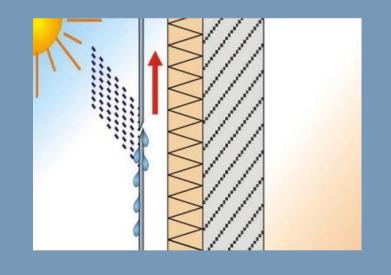
Rainscreen System provides a shield against rain, snow, and ice, preventing penetration water, mold through exterior walls and providing an excellent thermal and sound performance of the building.



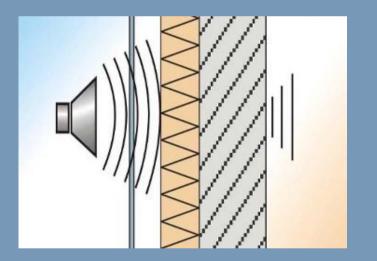
The cladding protects enclosure walls against the direct sun. The air cavity between insulation and cladding created a "chimney effect" which cools the building and helps to save energy in the summertime.



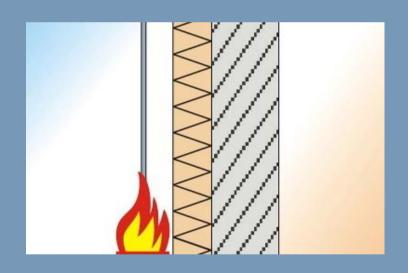
In wintertime exterior insulation layer preventing the escape of heat from the inside of the building.



The rear ventilated facade allows water to penetrate through open joints but not more than 5%. Effective ventilation behind the cladding effectively removing any water inside of facade system.



The rear ventilated facade consists of several layers including fibre insulation which helps to reduce a sound level up to 15 dB.



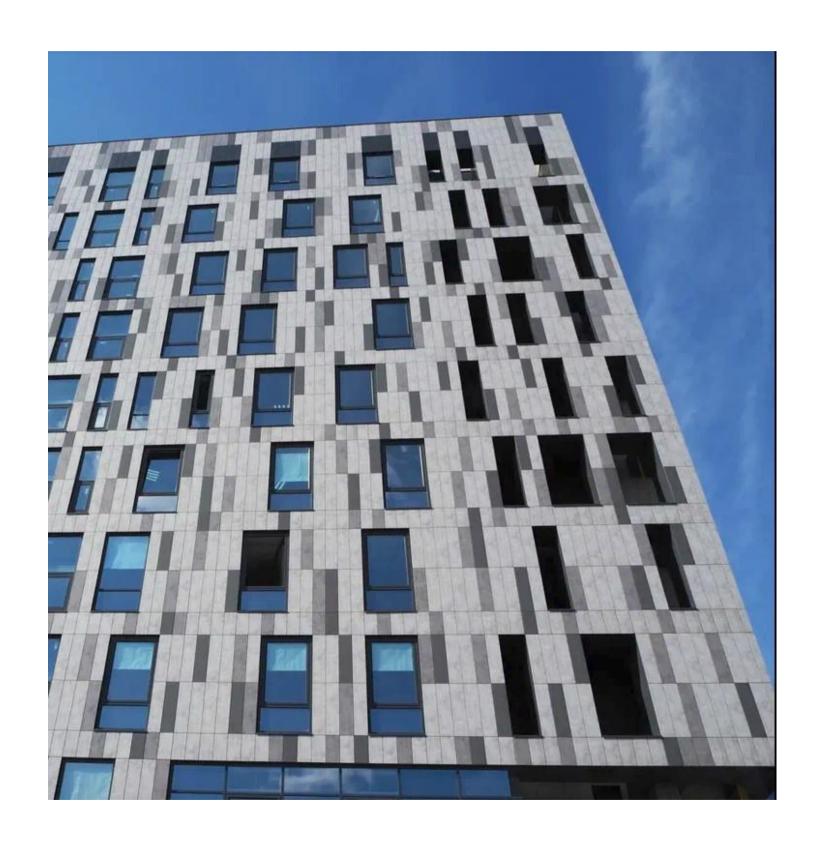
Proper design rear ventilated facade is a fire safe.

Slab to Slab Agenda



- Problem: Distributed Clip Systems for Ventilated Facade
- Solution: Slab to Slab Subsystem
- Key Success Factor #1: Portfolio of Systems
- Key Success Factor #2: Wall Alignment
- Examples





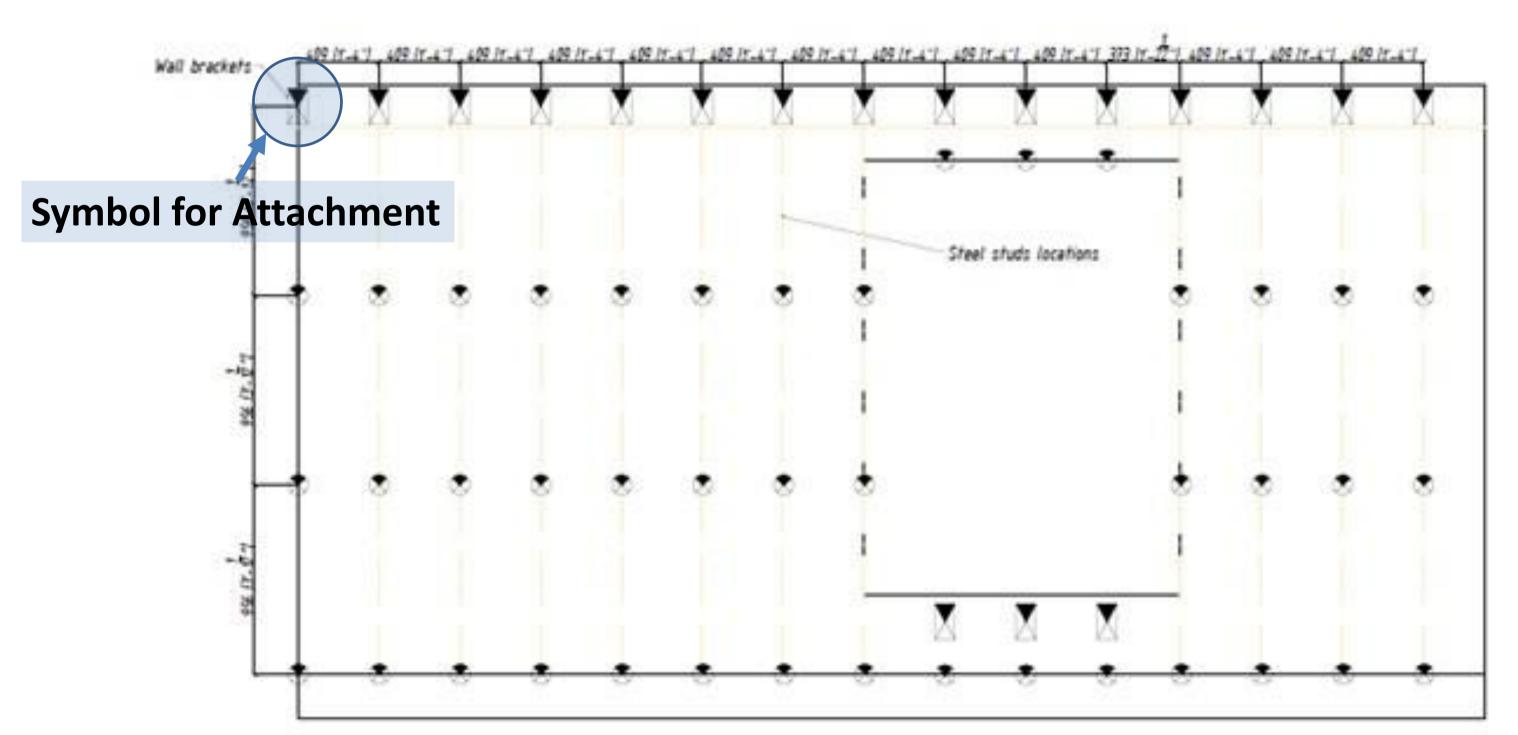




Problem: Subsystems Attached across Wall



Regular assembly every @16" OC every studs



60 Brackets on 30' of wall

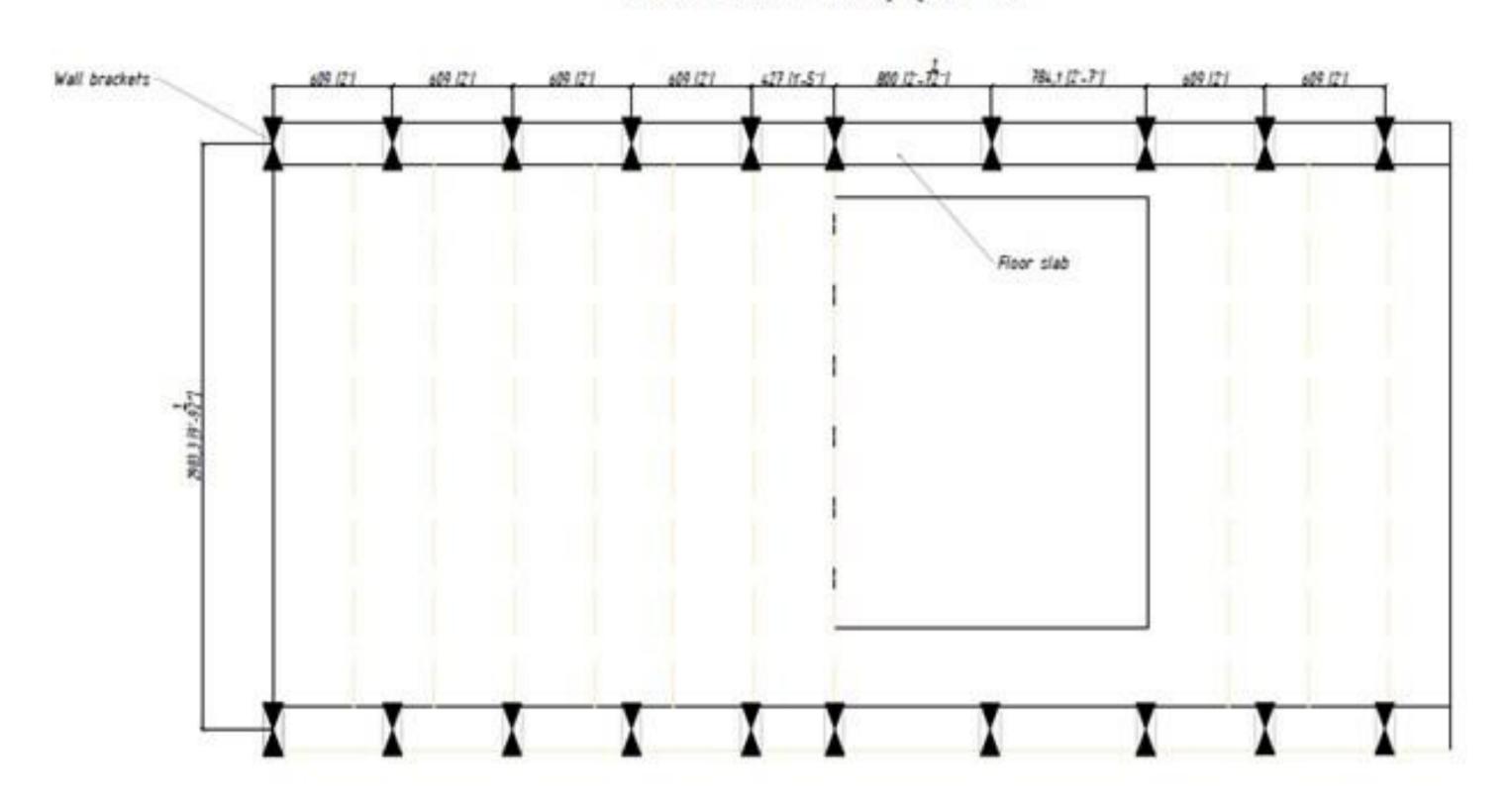
- Expense
- Time
- Mistakes
- Alignment
- Cost of subwall
- Trade handoff



Solution: Slab to Slab Subsystem



Slab to Slab assembly (@24" UL



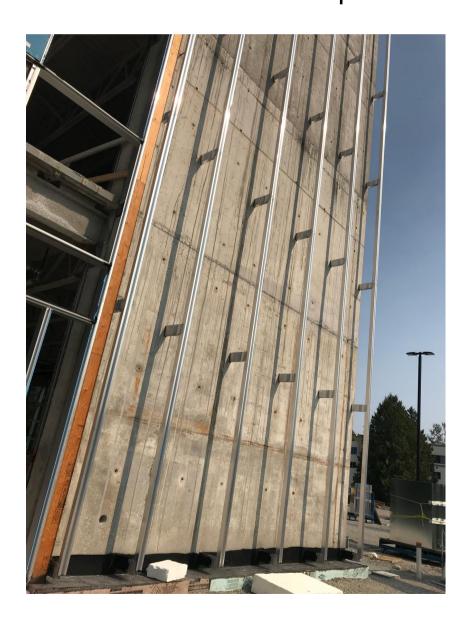
2/3 fewer clips

- Speed
- Cost
- Accuracy and alignment
- Subwall lighter.
- Trade handoff clean

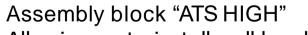


KSF #1: LEADING PORTFOLIO OF SYSTEMS

U-kon Systems offering several options to attach wall brackets to the wall depends on facade design, structural or thermal requirements.







Allowing us to install wall brackets directly to the floor slabs avoiding the installation of wall brackets to the wall. This solution has a lot of advantages:

- -Best thermal performance by reducing the number of connections (wall brackets) to the wall
- Fast installation
- Suitable for all U-kon Systems
- Best solution for complex facade design



Assembly block "ATS"
ATS assembly provides an effective installation substructure system
Ukon to the concrete, CMU and brick backup walls.

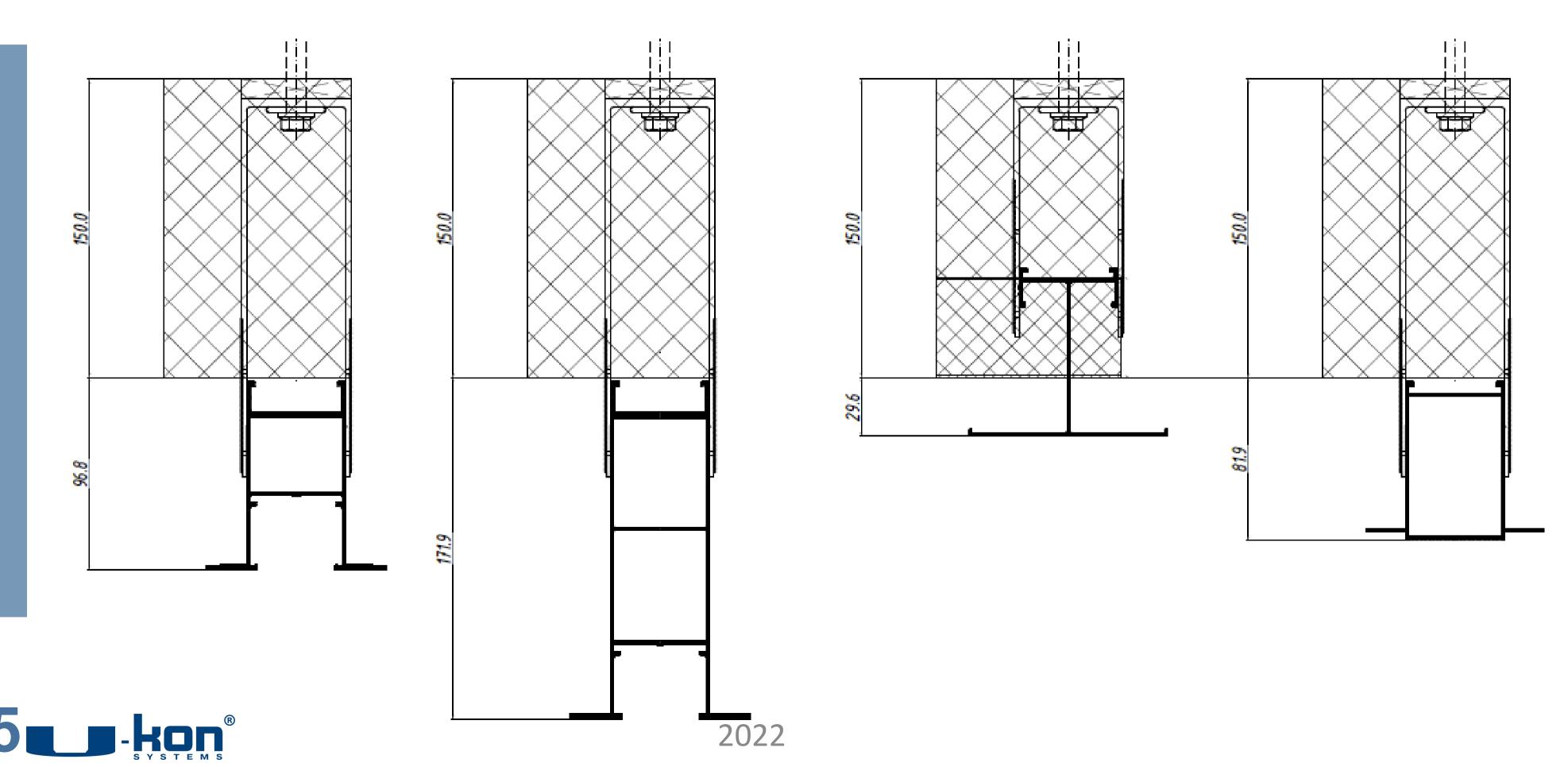
The ATS assembly can be used for heavy cladding panels 250 kg/m2 (51 psf)

Suitable for all U-kon Systems



Assembly block "LT"
The most common system to attach wall brackets directly to steel or wood studs wall.
Suitable for all U-kon Systems

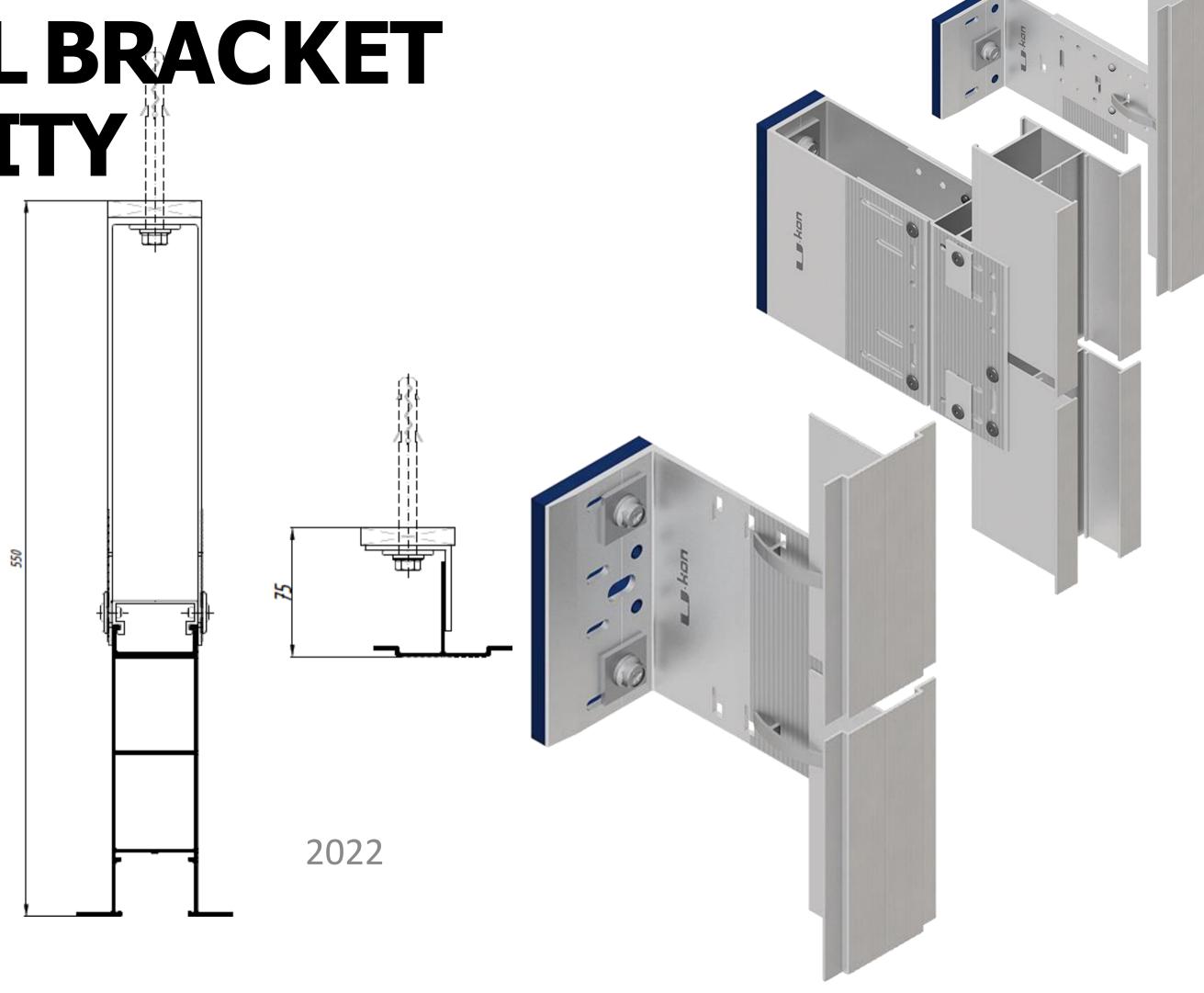
Unmatched Attachment Choices



KSF #2: WALL BRACKET ADJUSTABILITY

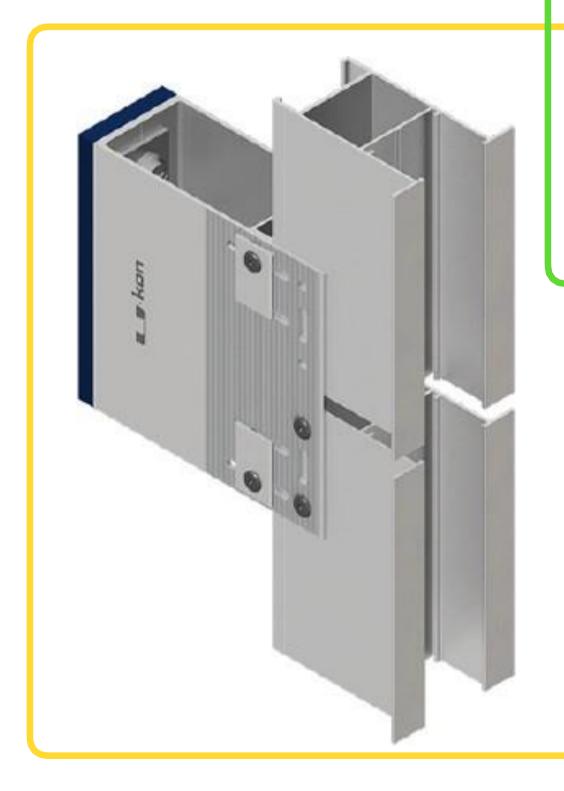
The U-kon Systems has a wide variety of wall brackets that can accommodate any thickness of exterior insulation.

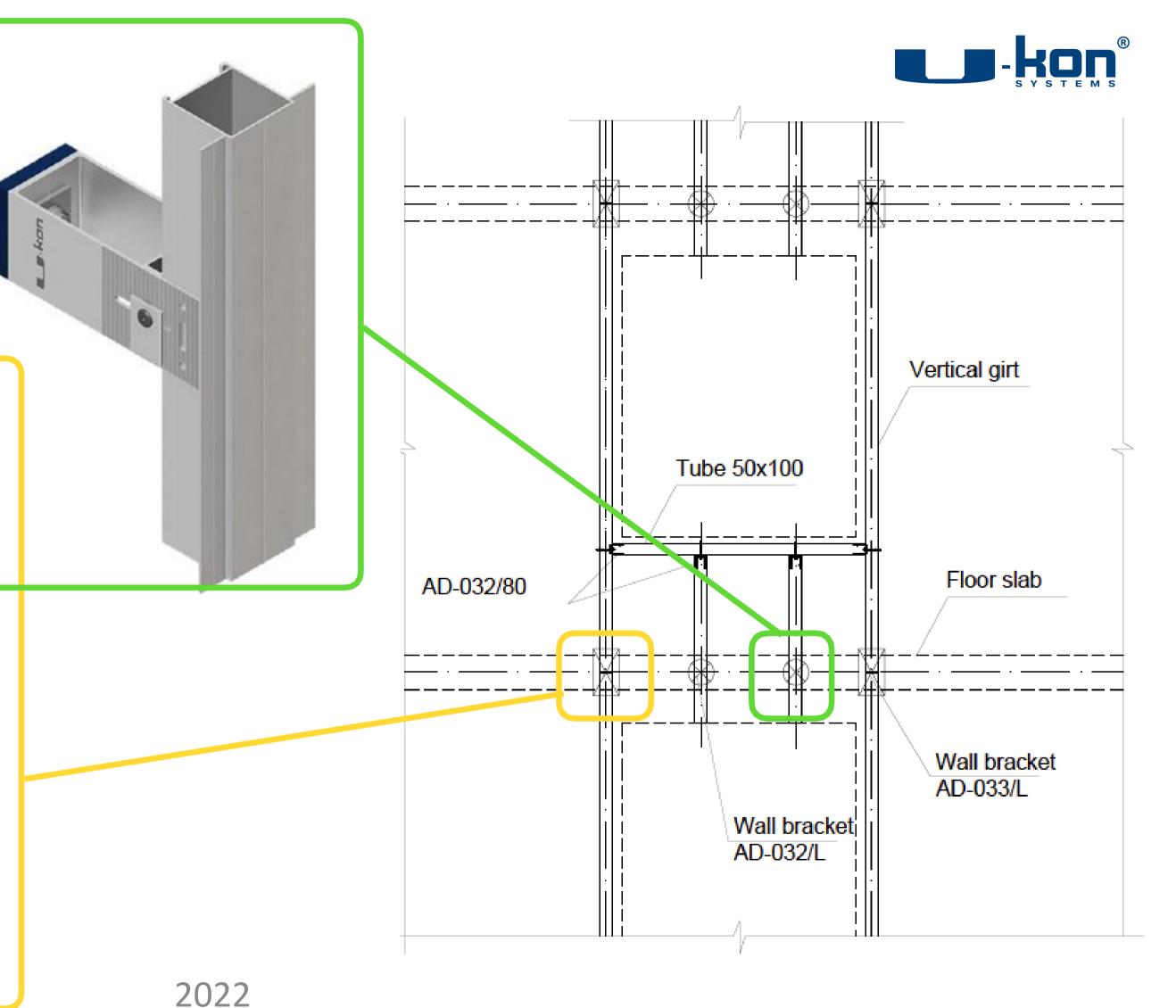
The maximum standard extension is 550 mm (21.5")





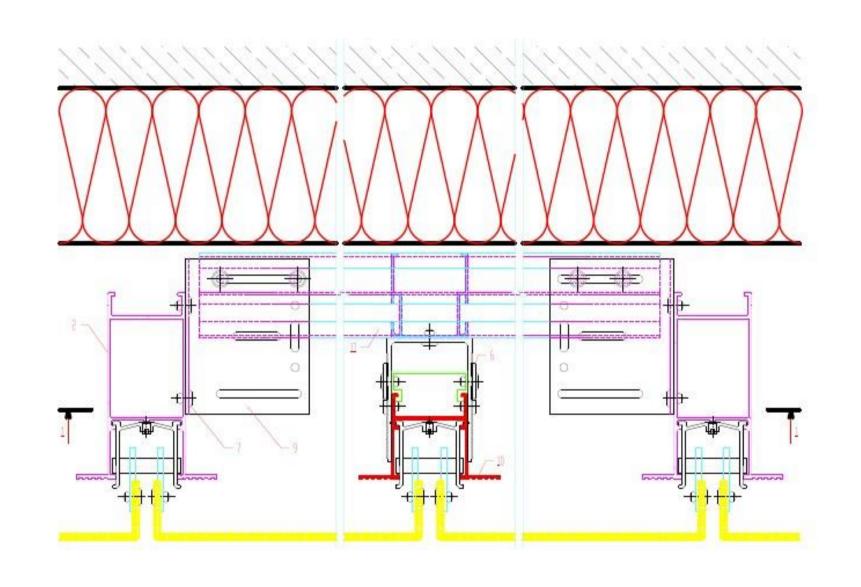
Window Detail SLAB TO SLAB

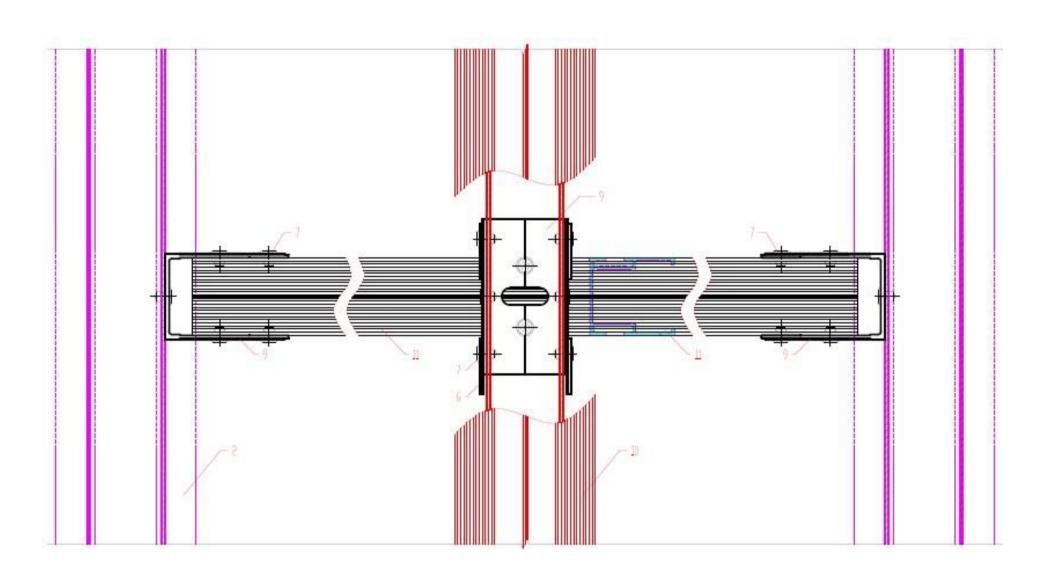






PLAN and FRONT veiw

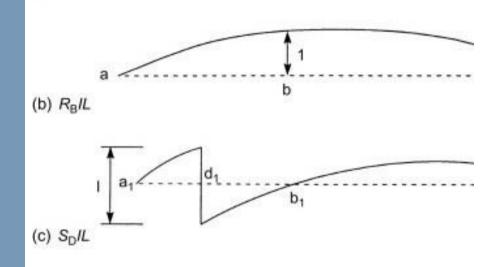


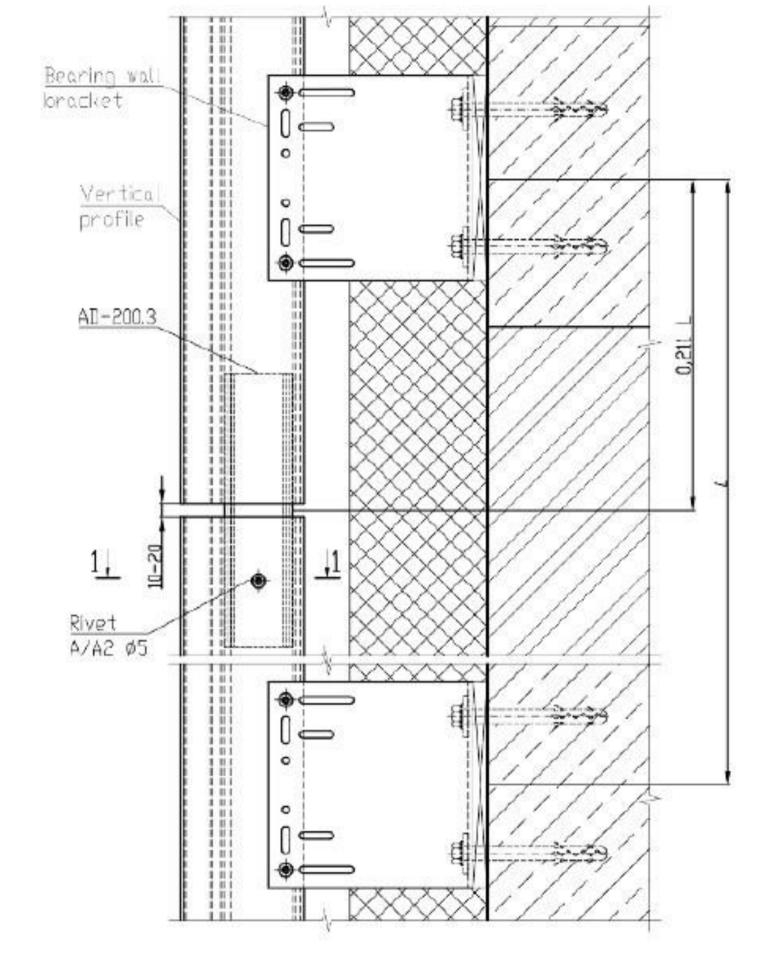


19 2022

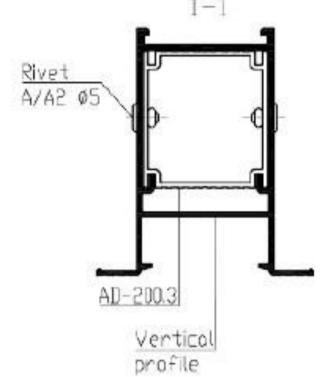
SLAB TO SLAB Engineering

Detail











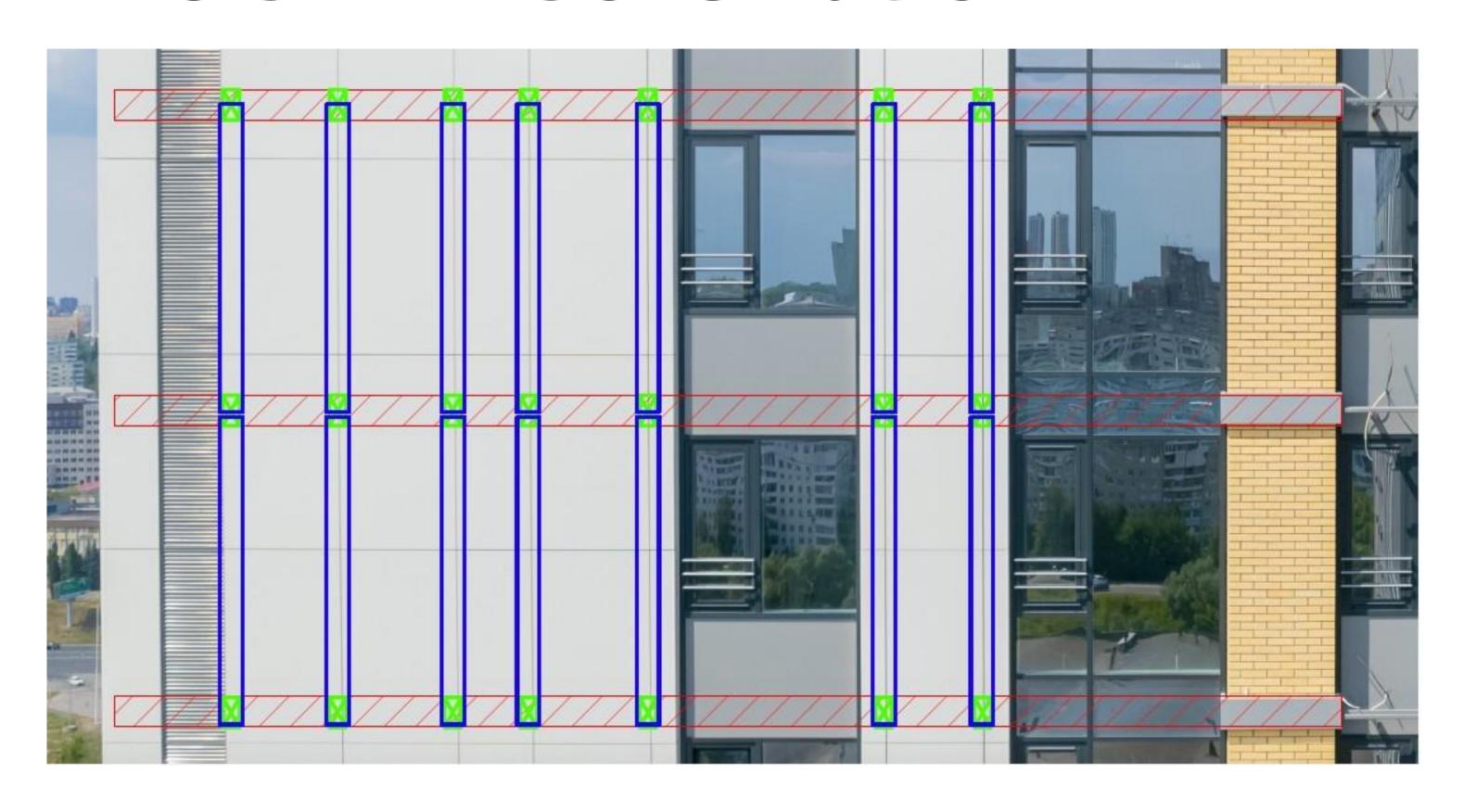
AD-034/L



AD-033/L



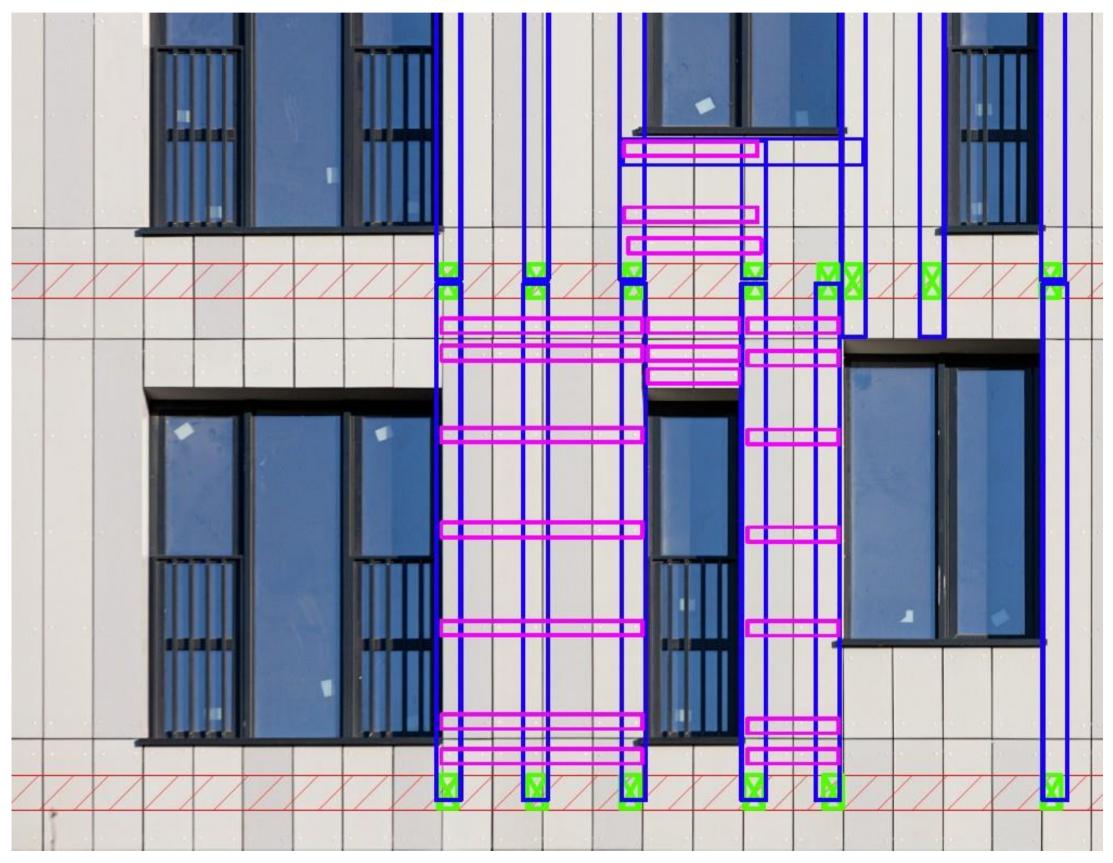
SLAB TO SLAB: Schematic





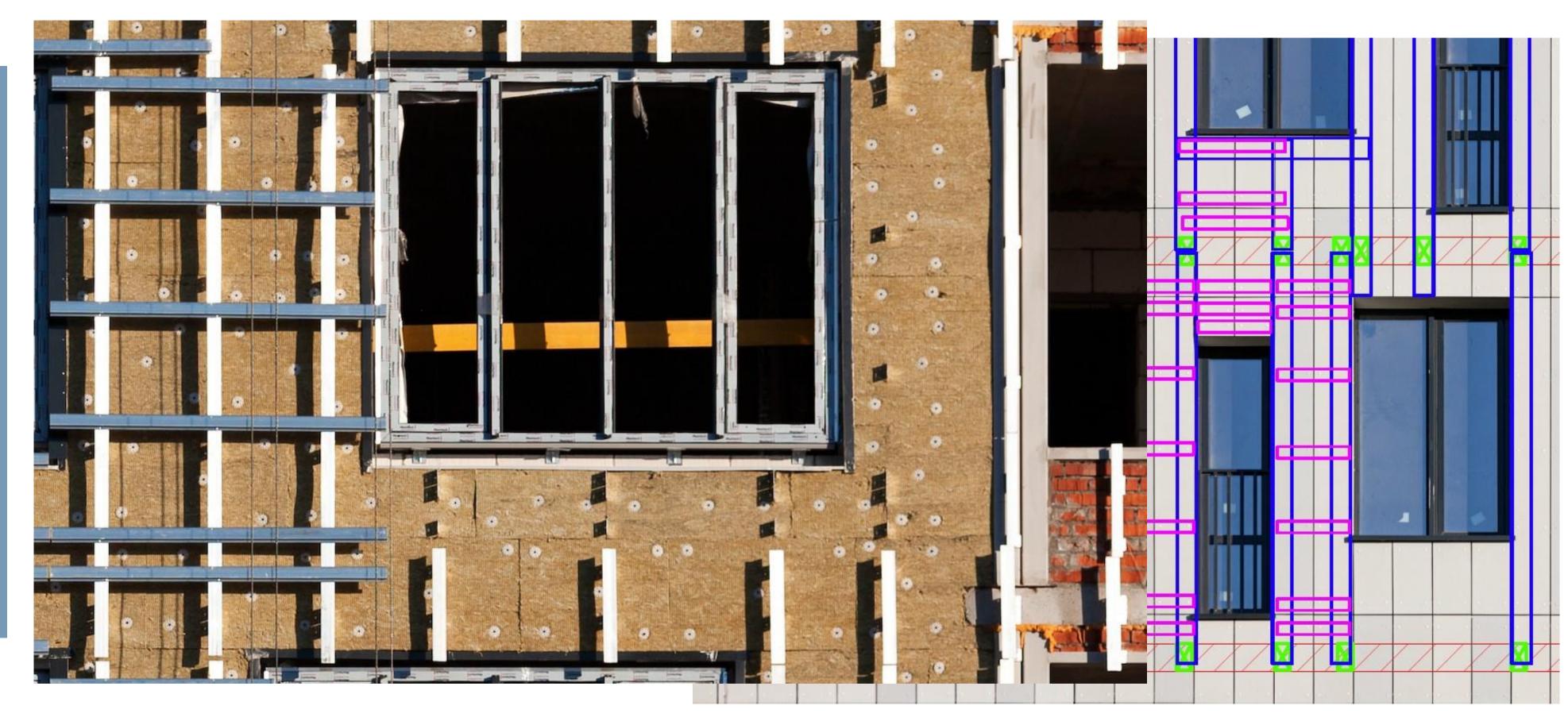


SLAB TO SLAB Schematic



23 2022

SLAB TO SLAB: Build What is Designed

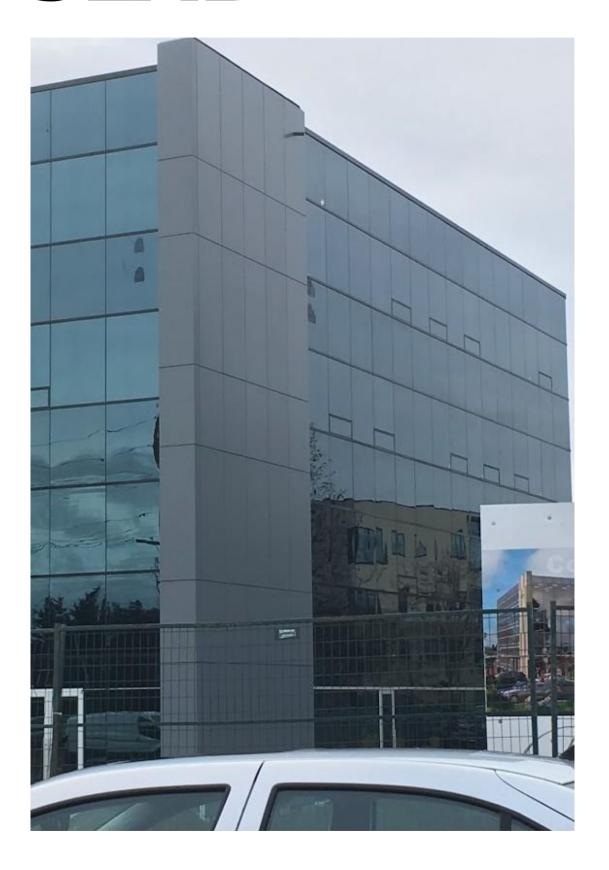


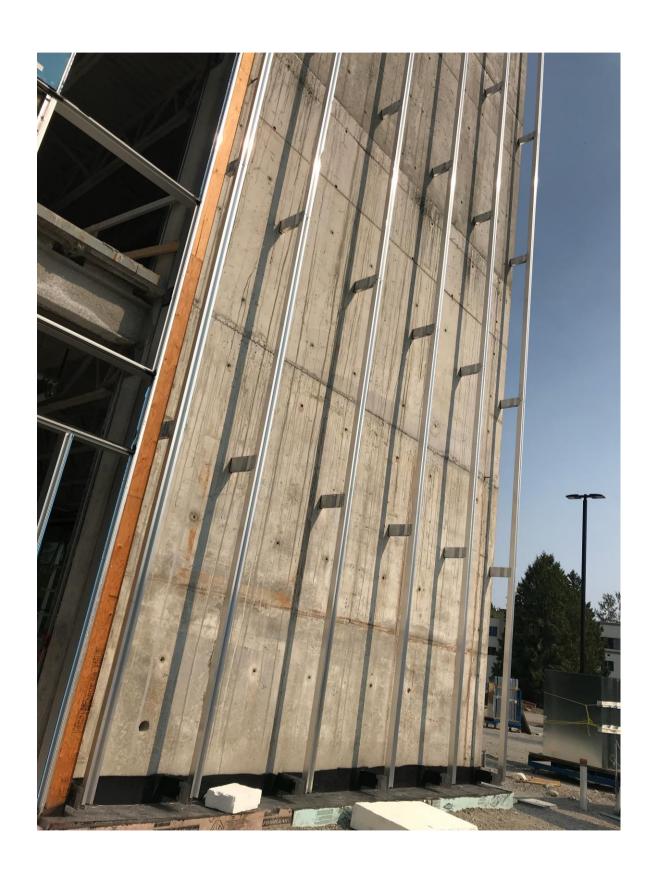


Examples



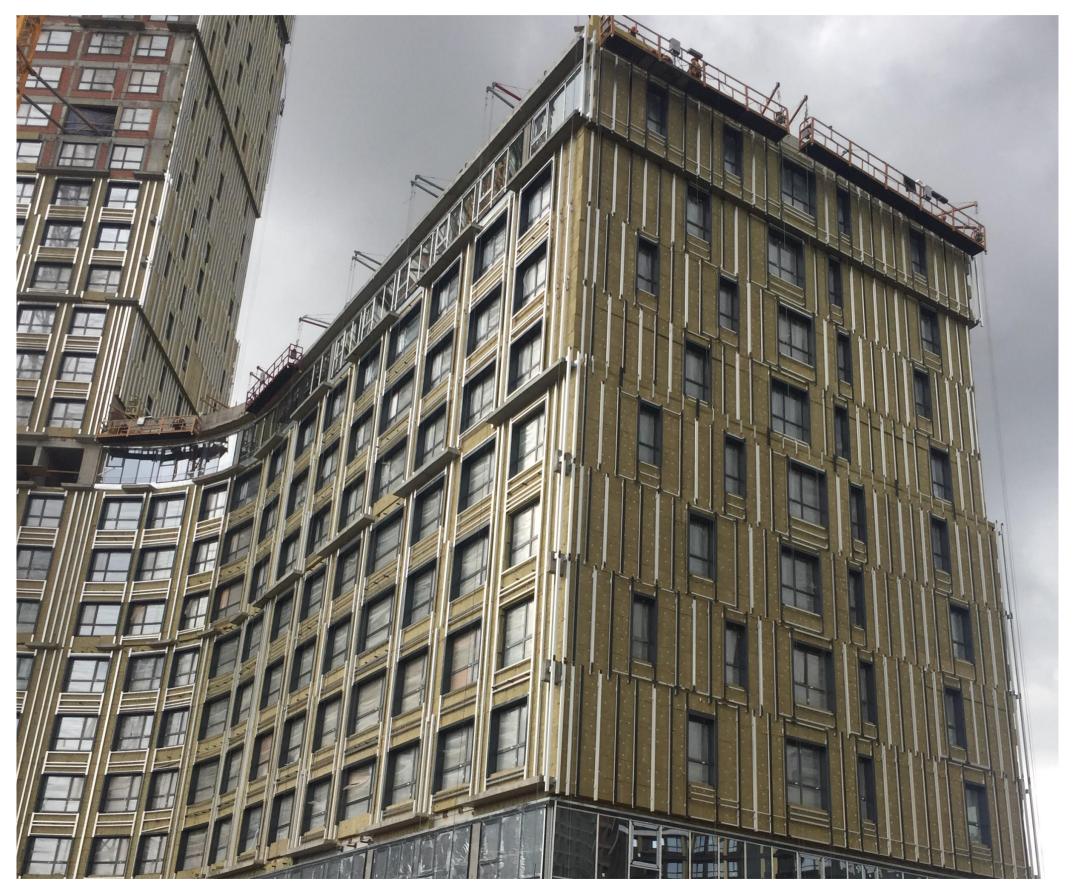






26 2022



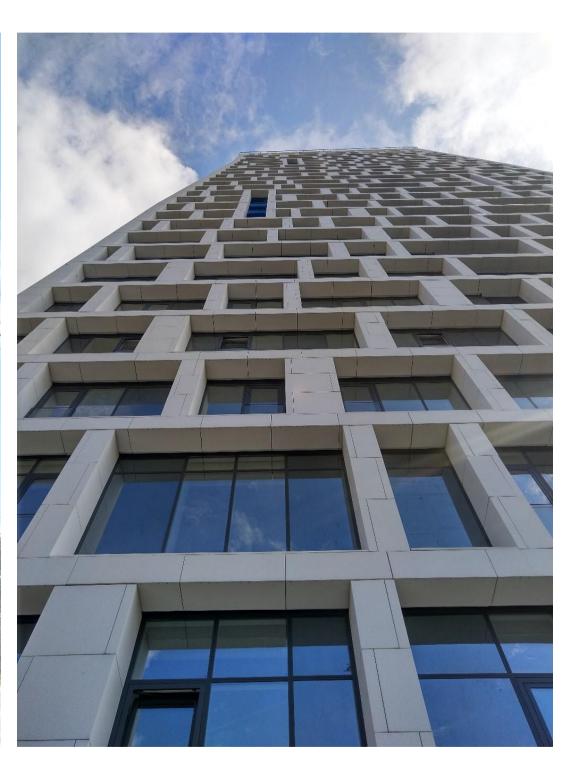


27 2022









Slab to Slab Agenda



- ✓ Problem: Distributed Clip Systems for Ventilated Facade
- ✓ Solution: Slab to Slab Subsystem
- √ Key Success Factor #1: Portfolio of Systems
- ✓ Key Success Factor #2: Wall Alignment
- ✓ Examples





Thank you

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