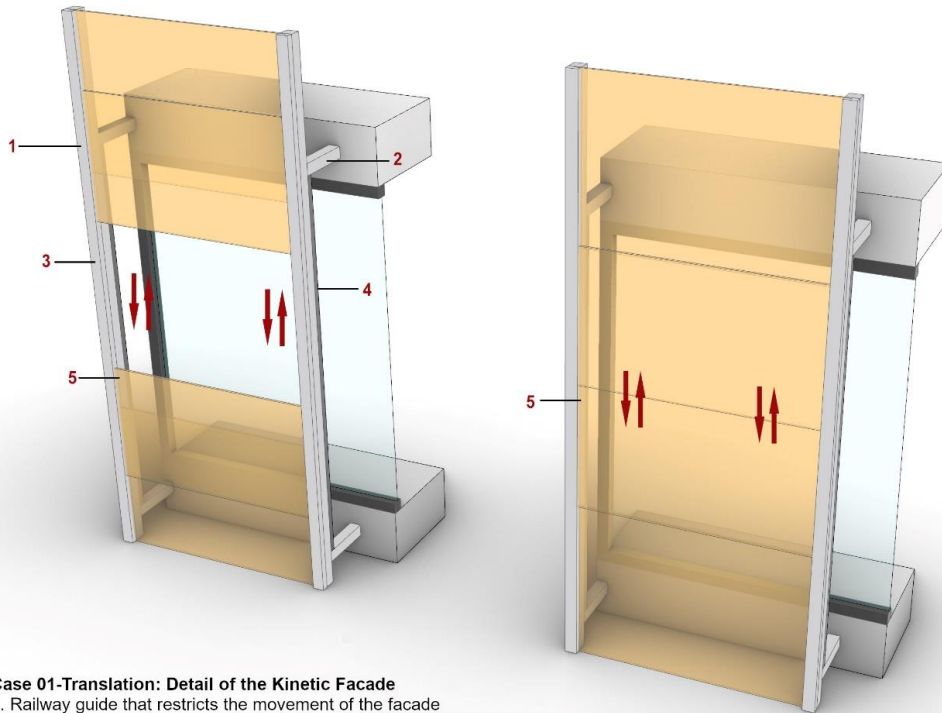


KINETIC FACADES FOR THE EXPLOITATION OF DAYLIGHTING

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KEYWORDS: Kinetic Architecture, Digital Design, Daylighting Exploitation, Parametric Design



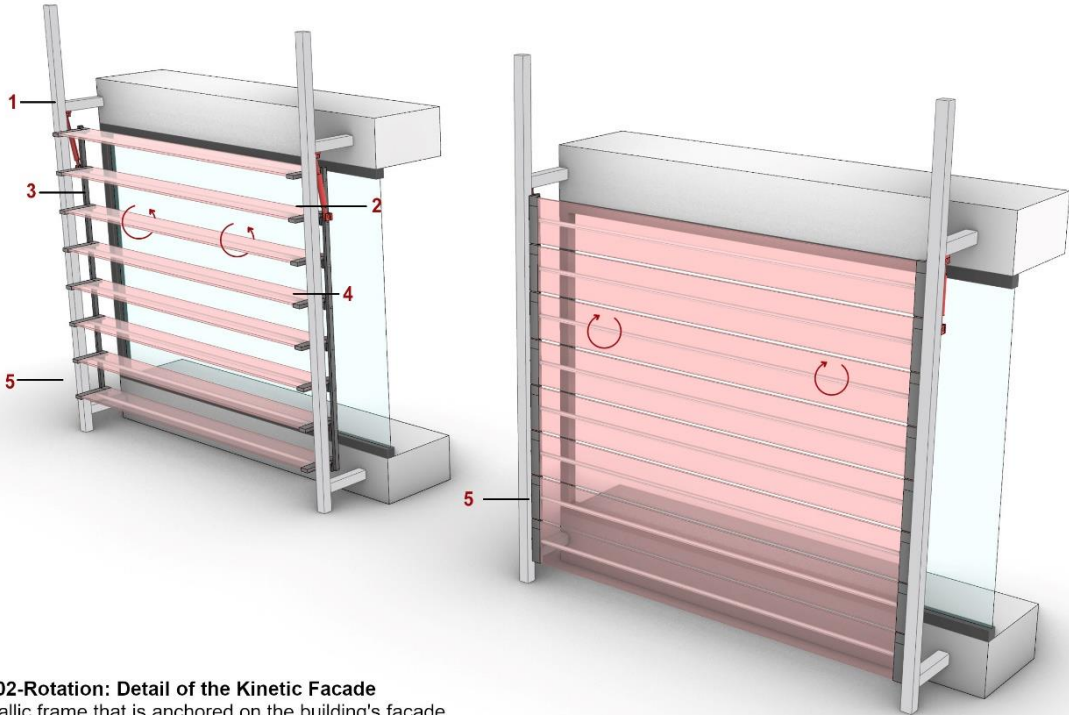
Case 01-Translation: Detail of the Kinetic Facade

1. Railway guide that restricts the movement of the facade
2. Metallic frame that is anchored on the building's facade
3. Translucent panels
4. Servomotor that enables the precise movement of the panels
5. The facade on a fully opened state and a fully closed state.

Figure 1 Translation: 3D render of the kinetic façade module. Arrows show the axis of movement of the element.



Figure 2 Translation: 3D render of the kinetic facade modules across a whole building.

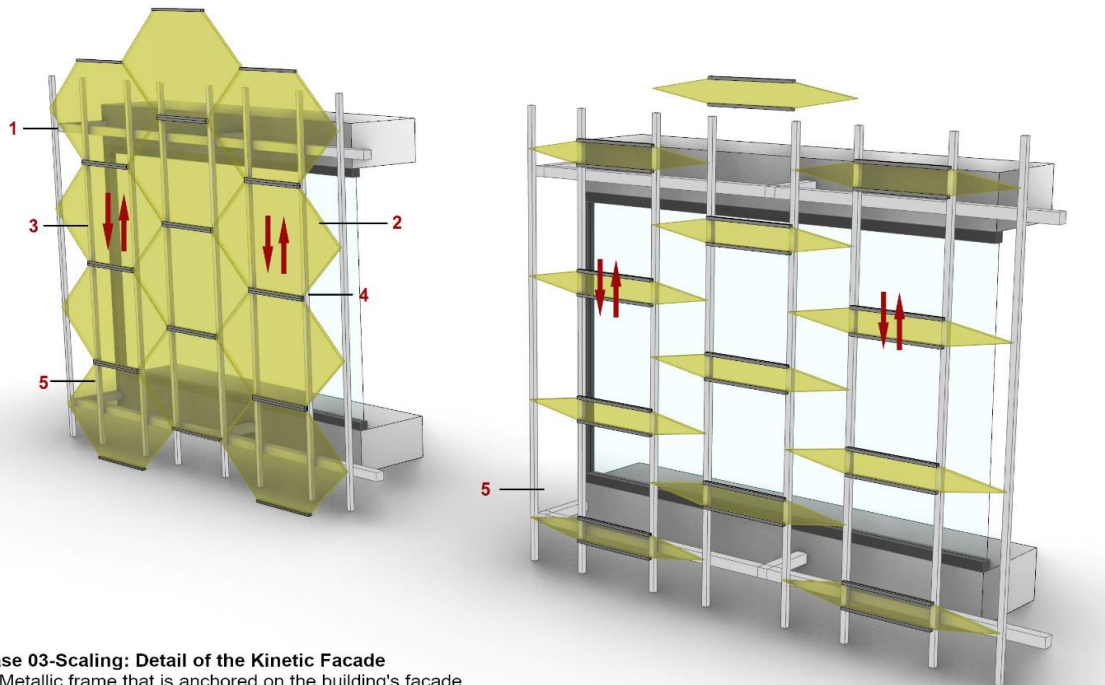


Case 02-Rotation: Detail of the Kinetic Facade
 1. Metallic frame that is anchored on the building's facade
 2. Translucent panels
 3. Railway guide that restricts the movement of the facade
 4. Anchoring rail and axis of rotation
 5. The facade on a fully opened state and a fully closed state.

Figure 3 Rotation: 3D render of the kinetic facade module. Arrows show the axis of movement of the elements.



Figure 4 Rotation: 3D render of the kinetic facade modules across a whole building.



Case 03-Scaling: Detail of the Kinetic Facade

1. Metallic frame that is anchored on the building's facade
2. Railway guide that restricts the movement of the facade
3. PTFE coated - fiberglass panels
4. Moving parts of the facade's panels
5. The facade on a fully opened state and a fully closed state.

Figure 5 Scaling: 3D render of the kinetic facade module. Each element is scaled along Z axis.

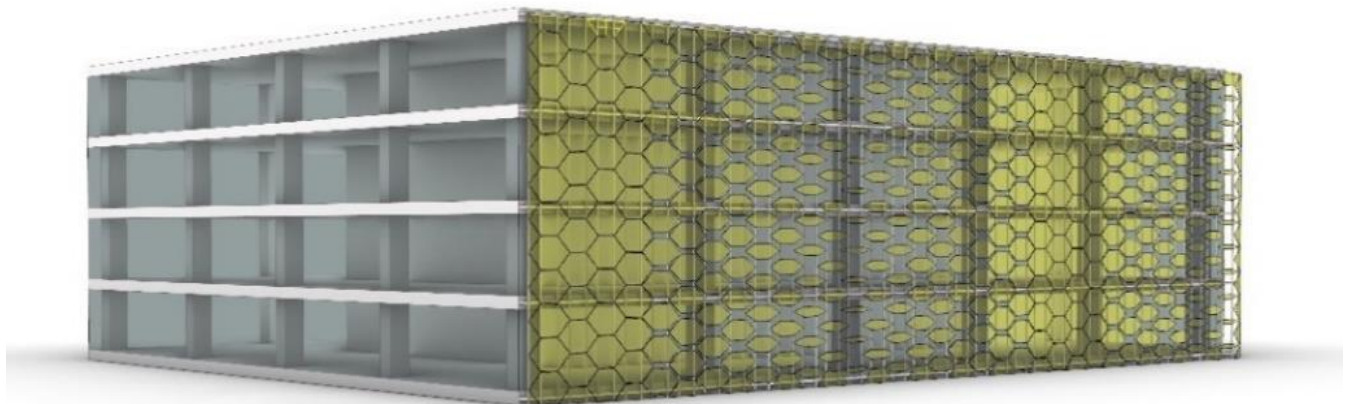


Figure 6 Scaling: 3D render of the kinetic facade modules across a whole building.