

Executive Summary for the Removal of Lattice Profiles in the AMAN Residence Design

The design evolution of the AMAN residence, originally conceived by architects KKAA, included the integration of lattice profiles as a defining architectural element. However, through detailed design assessment and feedback phases, critical concerns necessitating their removal have arisen. This document outlines the primary factors influencing this design decision, presenting a comprehensive justification aligned with the city's urban and architectural standards.

1. Structural Integrity and Design Limitations

The initial conceptualization featured thinner, more numerous lattice profiles intended to complement the building's aesthetic. However, engineering analyses revealed that these profiles, constructed from aluminum, presented significant structural challenges. The slender design threatened to bend or even break under environmental stresses such as wind loads. This deformation risk was heightened by the proximity of the lattice to the facade glass, posing potential contact and damage — scenarios unacceptable by structural integrity standards. Additionally, compensatory design adjustments necessitated the profiles' thickening, deviating from the architectural intent and introducing further complications.





2. Operational and Maintenance Impediments

The lattice profiles, in their original and modified forms, severely obstructed access to the building's glazing for routine cleaning and maintenance. This obstruction not only raises operational costs but also diminishes the building's sustainability by increasing the difficulty of maintaining the glass surfaces in prime condition. The lattice thus emerges as a prohibitive factor against maintaining the building's aesthetic and functional longevity, contrary to initial design objectives that prioritize ease of maintenance and operations.



3. Safety Concerns Regarding Facade Cleaning

Incorporating the lattice profiles induces potential hazards for maintenance personnel tasked with facade cleaning. The presence of these architectural elements introduces collision risks that could compromise safety during cleaning operations. Furthermore, any accidental impact with these profiles during maintenance activities could lead to facade damage or personnel injury, warranting significant concern and revision.



4. Obstruction of Scenic Views and Resident Dissatisfaction

The transition to thicker lattice profiles not only results in visual clutter but has engendered discontent among residents, whose views have been obstructed significantly. This alteration diminishes the living experience and aesthetic value perceived by apartment owners, which were intrinsic selling points of the development. The broader and denser profiles compromise the transparency and openness initially promised, leading to legitimate grievances from current and prospective residents.



Original Design



Engineered Design



No-lattice view

Conclusion and Recommendations

Given the outlined challenges — structural unreliability, maintenance impracticality, safety risks, and resident dissatisfaction — the decision to remove the lattice profiles is both prudent and necessary. This modification prioritizes architectural integrity, operational efficiency, user safety, and resident satisfaction. The revised facade design will better serve the diverse needs of the building's stakeholders while enhancing the aesthetic harmony with Miami Beach's urban narrative.

Future architectural strategies will continue to engage innovative solutions that conflate aesthetic appeal with function and safety, ensuring that design philosophies are not only visionary but executable and sustainable.