



Residency

A Carbon Analysis of Residential Typologies

Adrian Smith + Gordon Gill Architecture

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- RESIDENSITY is the culmination of a seven-year study analyzing nine building typologies to develop a deeper understanding of the relationships between different building densities and the amount of land and infrastructure required to support them
- This is a book geared toward City Planners, Architects, Engineers, Climate Scientists, Developers, and other A/E professionals interested in learning more about urban growth solutions
- The project has been featured in Architect Magazine's "Carbon" issue: https://www.architectmagazine.com/design/with-housings-carbon-footprint-density-matters_o

RESIDENSITY: A Carbon Analysis of Residential Typologies is the culmination of a seven-year study analysing nine building typologies to understand the relationships between building densities and the amount of land and infrastructure required to support them.

The book investigates how much embodied and consumed carbon is used in each typology and how it affects density and open space from the viewpoint of sustainability, carbon emissions, and carbon sequestration. The study determines which building typology is the most sustainable on a comparative basis. Nine prototypical buildings were designed – Megatall, Supertall, High-Rise, Mid-Rise, Low-rise, Courtyard, Three-Flat, Urban Single-Family, and Suburban Single-Family – set within nine prototypical communities. The study designates an archetypal residential community of 2,000 units with an average unit size of 150 sm as a reasonable and representative cross section of different housing typologies.

The Partners of **Adrian Smith + Gordon Gill Architecture**, Adrian Smith, Gordon Gill, and Robert Forest are globally recognised as leaders in the profession of architecture. They have presented at dozens of international industry events and conferences; and have lectured at universities across the world. Their works have been exhibited at the Skyscraper Museum and the Center for Architecture, both in New York, the Chicago Architecture Center, Deutsches Technikmuseum Berlin, the Cooper-Hewitt National Design Museum, and the Museum of Contemporary Art Chicago. Their drawings and sketches can be found in the permanent collections of the Art Institute Chicago and the V&A Museum in London.

Projects under their direction have been awarded more than 150 design awards including dozens of international design and sustainability awards, nine National AIA awards, 35 Illinois AIA and Chicago AIA awards, and three ULI Awards for Excellence, as well as several Progressive Architecture Design Awards. Adrian, Gordon, and Bob's work has been featured hundreds of publications including pieces in Architectural Record, Architect Magazine, Architectural Digest, the Architect's Newspaper, Chicago Magazine, the New York Times, Popular Science, and Wallpaper. The firm has published several notable books as well.