Carpet, Built-Up and Super Built-Up Area

Built-up and super built-up area of a flat from its carpet area, wall and balcony share and loading factor, with the effective price per square foot of carpet area.

Method: Carpet; built-up and super built-up area definitions

Input parameters

Unit system: SI

Parameter	Value	Unit
Carpet area	1,000.0	ft²
Walls and balconies as a share of carpet area	20.000	%
Loading factor on built-up area (common areas)	30.000	%
Price per square foot of super built-up area	6,000.0	

Calculated results

Parameter	Value	Unit
Built-up area	1,200.0	ft²
Super built-up area	1,560.0	ft²
Total price	9,360,000	
Effective price per square foot of carpet area	9,360.0	
Carpet as a share of super built-up	64.103	%

Notes for this case

• Carpet area is the usable floor inside the walls. Built-up area adds the thickness of walls and the balconies; super built-up (saleable) area adds a share of common areas such as lobbies, stairs and lifts through the loading factor. Where flats are priced per square foot of super built-up area, the effective price per square foot of carpet is higher by the ratio of the two areas. Under RERA in India sales must be stated on carpet area.

Formula and method

$$A_b = A_c(1 + f_w), \quad A_{sb} = A_b(1 + f_L), \quad c_c = c\frac{A_{sb}}{A_c}$$

Variables

A_c	Carpet area	m²
f_w	Walls and balconies as a share of carpet area	-
f_L	Loading factor on built-up area (common areas)	-
c	Price per square foot of super built-up area	-
A_b	Built-up area	m²
A_{sb}	Super built-up area	m²
C	Total price	-
c_c	Effective price per square foot of carpet area	-
A_c/A_{sb}	Carpet as a share of super built-up	-

Method and standards

Carpet area.

Assumptions and limits

- Factors as quoted by the builder.

References

Carpet, built-up and super built-up area definitions

Report details

Report reference	FCC-JG93-TQW6 (the same inputs always give the same reference)
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Release checks	3 reference cases of this calculator, computed independently, are checked on every release

Results are for engineering estimation. Verify critical designs against the referenced standards and your own data.

This calculator online

https://calc.firecad.com/civil/quantities/carpet-builtup-area

Open this case on calc.firecad.com →

Reopens the calculator with the inputs of this report.