



WIND LOAD CALCULATION REPORT (TS 498:2021)

For preliminary design purposes only; final design must be approved
by a competent engineer in accordance with the relevant standards.

Project	Sample Project
Subject	TS 498:2021 – Wind Load Calculation for Facade
Prepared by	Civil Engineer
Approved by	MSc Civil Engineer
Date	8/13/2025

1) Inputs

Band	9-20	v (m/s)	36.00
Isolated	Yes	C _p	0.80

2) Intermediate Values

q (kN/m ²)	1.000
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3) Design Load

Formula	Value
$w = C_p \cdot q$	0.800 kN/m ²

4) Applied Rules

From TS 498:2021 Table 4, v and q can be directly taken based on the selected band.

If band is empty: $q = v^2 / 1600$ (kN/m²).

For isolated facade elements: q × 1.25 increase is applied.

Design load: $w = C_p \cdot q$.

Authority and Responsibility

This calculation report is prepared based on TS 498:2021 for preliminary design purposes. Final design and application decisions must be approved by competent engineer(s) in accordance with relevant standards.