

Commercial Tenant Load Calculator

Compare tenant lighting, receptacle, HVAC, process, and kitchen load groups against an entered demand factor and capacity.

Generated October 10, 2026

<https://www.elecatrrix.com/commercial-industrial-loads/commercial-tenant-load-calculator/>

Inputs

Input	Value	Unit
Lighting load	12	kW
Receptacle load	8	kW
HVAC load	20	kW
Process load	6	kW
Kitchen load	4	kW
Entered tenant demand factor	80	%
Entered tenant capacity	45	kW

Results

Result	Value	Unit
Connected tenant load total	50	kW
Entered-demand tenant load	40	kW
Tenant capacity margin	5	kW

Calculation details

Detail	Value	Unit
Calculation basis	Tenant worksheet sums entered load groups and applies the entered demand factor.	
Review boundary	Tenant worksheet arithmetic only; no occupancy table, feeder/service size, code demand method, or lease/load approval is made.	

Formulas

$$P_{connected} = P_{lighting} + P_{receptacle} + P_{HVAC} + P_{process} + P_{kitchen}$$

$$P_{demand} = P_{connected} \times \frac{fracD_{tenant}}{100}$$

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$M_{\text{capacity}} = P_{\text{entered capacity}} - P_{\text{demand}}$

Warnings and limitations

Tenant worksheet arithmetic only; this calculator does not perform a code-compliant tenant load calculation, choose an occupancy table, size feeders or service, approve lease loads, or approve code compliance.