

Tower Loading Questionnaire (USA)



Instructions for use:

Step 1: Complete all sections of the Alliance Tower Questionnaire. Call your Alliance Account Manager if you need assistance to complete this form. Return completed questionnaire to your Alliance Account Manager.

Step 2: Alliance will conduct a tower analysis and provide you with a tower model recommendation.

Step 3: If the Municipality where the tower is to be located requires PE Stamped Drawings there is an additional cost for this service.

Step 4. For a custom designed foundation, Geotechnical Soils Reports must be submitted with the purchase order. Any special requirements or instructions should be included.

*Note that Alliance accepts no liability for incorrect data supplied by the customer. Therefore, it is incumbent on the customer to do proper research. Any costs resulting from incorrect or missing data will be borne by the customer, including paying for an entirely new PE Stamped Drawing package if it must be redone with a different tower model.

Date submitted			
Section 1: Customer Contact Information			
Name	Alliance Account Number		
Title	Company name		
Address	Country		
City	State	Zip Code	
E-mail	Phone		
Alliance Contact			
Name	Phone		
E-mail			
Section 2: Site Information (Where will the structure be installed?)			
Site name:			
Site Address:			
City	State	County	Zip Code
Latitude		Longitude	
Application			
<input type="checkbox"/> Broadband <input type="checkbox"/> Microwave HOP <input type="checkbox"/> GPS <input type="checkbox"/> Private Network <input type="checkbox"/> SCADA <input type="checkbox"/> Wireless LAN <input type="checkbox"/> Lighting <input type="checkbox"/> Other: Please specify if other			
Section 3: Quote Type			
Budgetary		Ready to purchase	
Section 4: Structure Details			
Structure height:		Feet	
Structure type			
<input type="checkbox"/> Self-Supporting <input type="checkbox"/> Guyed <input type="checkbox"/> Bracketed <input type="checkbox"/> Monopole <input type="checkbox"/> Other			
Preferred Tower Vendor?			
<input type="checkbox"/> ROHN <input type="checkbox"/> Sabre <input type="checkbox"/> Trylon <input type="checkbox"/> Other Specify if Other:			

Section 5: Design criteria	
<p>Wind speed definition for this tower analysis:</p> <p>(Select one). Following are definitions: <u>Survival</u>: max. Sustained wind gust recorded over past 30-40 yr period. Cannot be used if Engineer's stamp is required. <u>EIA-222F</u>: Basic county wind speed defined by EIA standard. Specified in some areas. <u>TIA-222G</u>: Most recent revision of US testing standard = basic country wind speed defined by TIA standard</p>	<p><input type="checkbox"/> Survival</p> <p><input type="checkbox"/> EIA-222-F</p> <p><input type="checkbox"/> TIA-222-G</p> <p>If TIA-222-G is selected complete the Importance Class section.</p>
If TIA-222-G is selected complete the following:	
Importance Class	<p><input type="checkbox"/> Importance Class 1: ie: Structures used for services where a delay in returning the services would be acceptable such as residential wireless, conventional two-way radio, television, scanner reception, wireless cable, amateur and CB radio.</p> <p><input type="checkbox"/> Importance Class 2: ie: Structures used for commercial services such as commercial wireless, television and radio broadcasting, cellular, PCS, CATV operators and microwave communications.</p> <p><input type="checkbox"/> Importance Class 3: ie: Structures used for essential wireless communications such as civil or national defense, emergency rescue or disaster operations, military navigation where a delay in the services would be unacceptable.</p> <p>NOTE: If section is not completed the tower analysis will default to Class 2</p>
If you select Class 2 or Class 3, please complete the following 3 sections (Exposure Category, Topographic Category and Site Class).	
Exposure Category	<p><input type="checkbox"/> B: (Urban, fully built-up area)</p> <p><input type="checkbox"/> C: (Rural open terrain – default and most common exposure category)</p> <p><input type="checkbox"/> D: (Within a half mile of a shore line)</p> <p>NOTE: If this is not completed, tower analysis will default to Category C</p>
Topographic Category	<p><input type="checkbox"/> 1: (No abrupt topographic changes immediately surrounding the tower)</p> <p><input type="checkbox"/> 2: (Tower located, within a distance equal to the height of the tower, on or near the crest of an escarpment)</p> <p>NOTE: If this is not completed, the tower analysis will default to Category 1</p>
Site Class Required where earthquake loading is to be investigated. This information may be obtained from the US Geological Survey	<p><input type="checkbox"/> A: (Hard rock with 10-ft or less of overburden)</p> <p><input type="checkbox"/> B: (Competent rock with moderate fracturing with 10-ft or less of overburden)</p> <p><input type="checkbox"/> C: (Very dense soil, soft rock or highly weathered and fractured rock)</p> <p><input type="checkbox"/> D: (Stiff Soil)</p> <p><input type="checkbox"/> E: (Weak Soil with high moisture content)</p> <p>NOTE: If this is not completed, tower analysis will default to Class D</p>

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Section 5a: Design Criteria

Is an Engineer's stamp required on the tower drawing? Yes No

Section 6: Foundation

Is an Engineer's stamp required on foundation drawing? Yes No

Section 7: Antenna Information

Antenna #	Elevation of Antenna (ft.)	Offset Distance (ft.)	Antenna Manufacturer Model Number/Type: (Dish, Yagi, Omni, Dipole, Other)
1			
2			
3			
4			
5			
6			

Section 8: Accessories required

Fall Protection
 Step Bolts
 Anti-Climb
 Grounding Kit
 Lightning Rod
 Antenna Mounts
 Other:
 Radomes
 Ice Shield

Section 9: Ship to information

Same as Site location

Contact name: _____ Phone number: _____

Address: _____ City: _____ State: _____ Zip Code: _____

Section 10: Additional Information, Comments or Special Requirements