ALLIANCE™ CORPORATION

THE POWER OF BEING CONNECTED.

Alliance Stamped Drawing Process & Tower Loading Questionnaire (Canada)

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 P.Eng. Stamped Drawings for SuperTitan and STG Towers, there is an additional cost for this service. P. Eng Stamped Drawings are included with all SuperTitan MAX Towers.

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.

Step 5. The tower manufacturer will then produce the site-specific P.Eng. Stamped Drawings. The lead-time for this service is approximately 7 business days. The drawings are sent directly to the customer.

*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 P.Eng. 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/ Province	Zip/ Postal Code
E-mail	Phone	
Alliance Contact		
Name	Phone	
E-mail		

Section 2: Site Information (Where will the structure be installed?			
Site name:			
Site Address		Country	
City	Province	County	Postal Code
Latitude		Longitude	
Application ☐ Broadband ☐ Microwave HOP ☐GPS ☐Private Network ☐ SCADA ☐ Wireless LAN ☐Lighting ☐Other: Please specify if other			

Section 3: Quote Type	
Budgetary ◯	Ready to purchase ◯

Section 4: Structure Details
Structure height: _____Feet or _____Meters
Structure type ☐ Self Supporting ☐ Guyed ☐Bracketed ☐Monopole ☐Other
Which type of Trylon Tower? ☐ Titan Self Support (up to 96') ☐ SuperTitan Self Support (up to 190') ☐ STG Guyed (up to 350') ☐ SuperTitan MAX Self Support (99'-251') Note that Titan Towers cannot be stamped by a P. Eng.

Section 5: Design criteria		
Wind speed definition for this tower analysis: (Select one). Following are definitions: Survival: Maximum sustained wind gust recorded over past 30-40 yr period. Cannot be used if Engineer's stamp is required. CSA: wind pressure defined by CSA S37 standard.	☐ Survival ☐ CSA S37	
What is the maximum wind speed, as dictated by the wind speed definition selected above? Regarding wind pressure vs. wind speed, the Canadian code CSA S37-01 specifies the use of pressure as it better served for calculating the force exerted on an antenna and on a tower. When a P.Eng. Stamped Drawing package is required then a Site Specific Wind Report from Environment Canada must be provided. Please contact Environment Canada at ec.scg-ecs.ec@canada.ca or Caroline Barnes at 416-739-4232.	___ PASCALS of wind pressure	
Will any radial ice accumulation occur? (May be obtained by contacting your local weather office, other weather service, or local building permit office.) *Note: Minimum Ice Accumulation in Canada is 10mm.	☐ Yes ☐ No	If yes, how thick? __ mm or __inches
Is an Engineer's stamp required on the tower drawing? Contact your local building code authority or permit office to determine if this is required. (Note: This is a 1-page drawing that shows the sections of the tower being stamped from the foundation section to the top. It also states in chart format the exact antennas installed, the exact transmission lines being installed, the wind speed and ice loading at the site and the national standard for which compliance is being wet-stamped by an engineer. In addition a report showing the capacity of tower members is also included. This drawing does NOT provide customer-specific details such as antenna mounting illustrations, grounding details, or other non-standard items.)	☐ Yes ☐ No	

Section 6: Foundation

Is an Engineer's stamp required on foundation drawing?

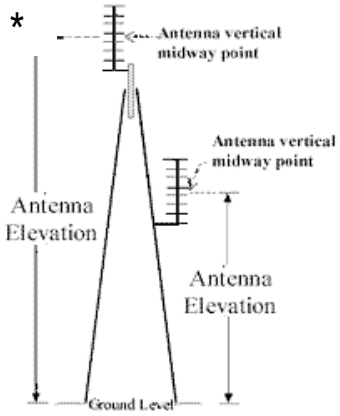
☐ Yes

☐ No

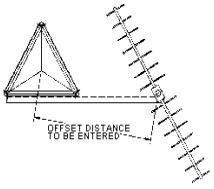
Contact your local building code authority or permit office to determine if this is required. (Note:. If required, then Alliance will require a Geotechnical Soils Report taken at the site where the tower will be installed. If the customer provides no geotechnical soils report, then Alliance must assume Normal Dry Soil and the customer must bear the full risk of that assumption being incorrect. To mitigate customer risk, Alliance highly recommends that customers hire a 3rd party geotechnical consultant to conduct a geotechnical soils report. If required, a foundation drawing stamped by a professional engineer may be purchased from your Alliance. This foundation drawing provides only: excavation details, concrete details, quantity and size of rebar, reactions at the base, overturning moment. It does NOT include seismic analysis, detailed rebar drawings or other non-standard foundation requirements. Consult Alliance if your drawing requires special information at an additional fee.)

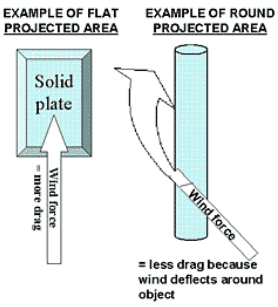
Section 7: Antenna Information

Antenna#	*Elevation Of Antenna (Feet)	** Offset Distance (feet)	Antenna Manufacturer Model Number/Type: (Dish, Yagi, Omni Dipole, Other)	L x W x D of Antenna	***Flat or Round	Projected Surface Area (sq. feet)	Weight (lbs)	Transmission Lines	
								Qty	Size (inches)
1									
2									
3									
4									
5									
6									

* 

**Offset distance is from the centroid of the tower to the antenna's center of mass.



*** 

Section 8: Accessories required				
	☐ Fall Protection	☐ Step Bolts	☐ Anti-Climb	☐ Grounding Kit
	☐ Lightning Rod	☐ Antenna Mounts	☐ Painting	☐ Other: Please specify if other

Section 9: Ship to information		
Same as Site location ☐		
Contact name:	Phone number:	
Address:	Country	
City:	Province:	Postal code:

Section 10: Additional Information, Comments or Special Requirements