WEIGHING SYSTEMS
SIESMIC & WIND LOADING RATING WORKSHEET

Fax or email to SENTRAN Applications Engineering Group: (909) 605-6305 or mail@sentranllc.com

CONTACT: _____

COMPANY: _____

ADDRESS: _____

_____

PHONE: _____

FAX: _____

EMAIL: _____

CITY: _____ STATE: _____ ZIP: _____

Δ Notice! To whom it may concern:

SENTRAN specializes in application-specific measurement solutions for the process weighing segment. Product solutions are recommended predicated on complete, accurate application information provided by the customer/client, as well as applicable industrial standards and best engineering practices.

SENTRAN products are designed to yield excellent performance under rated operating conditions. However, SENTRAN can not guarantee performance results if products are applied under less than prescribed conditions. Influence factor considerations include, but are not necessarily limited to: supported structure integrity, maintaining supported structure minimum working limits, mounting and/or load introduction anomalies, mechanical binding/force shunts, excessive environmental influences and similar related factors.

SENTRAN's product recommendations are consistent with guidelines set forth under the UBC (Uniform Building Code) for the intended use of our device(s). However, SENTRAN can in no way guarantee or warrant in any manner whatsoever the integrity of the installation, nor any aspect of the structural components, nor any information provided to SENTRAN for purposes of making our recommendation. Customer/client's are encouraged and obliged to engage the services of a fully certified civil engineer or similarly qualified technical resource for purposes of evaluating and certifying all aspects of the application relative to UBC compliance.

Ultimate Civil Engineering Directory: www.tenlinks.com/engineering/civil/ Contains links to international building code resources organized by country, standards organizations, databases.
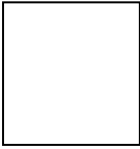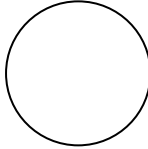

Thank you for the opportunity to be of service. SENTRAN has developed this worksheet as a means for gathering information necessary to make the best product solution recommendation for your seismic/wind loading rated weighing system. To that end, please provide complete, accurate information in the following questionnaire for all considerations influencing your application.
Once completed, fax or e-mail the document to the attention of:
SENTRAN Applications Engineering Group at (909) 605-6305 or mail@sentranllc.com.

VESSEL PROFILE INFORMATION		
1.	What is the vessel physical orientation?	Vertical ☐ Horizontal ☐ Other _____
2.	What is the vessel profile?	Round ☐ Square ☐ Other _____
3.	How is the vessel supported?	Legs ☐ Mezzanine ☐ Hanging ☐ Other _____
4.	Is the vessel "freestanding"? (No extraneous mechanical attachments)	Yes ☐ No ☐ (Describe any and all physical attachments on a separate sheet and attach it to this document. Sketches, drawings, etc.)
5.	How many supports does the vessel have?	_____ (insert number)

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6.	What is the diameter/length & width of the vessel?	_____ X _____ (insert number) Feet ☐ Meters ☐
7.	What is the height of the body of the vessel? (Do not include legs/supports)	_____ (insert number) Feet ☐ Meters ☐
8.	What is the elevation of the top of the vessel above grade?	_____ (insert number) Feet ☐ Meters ☐
9.	What is the elevation of the bottom of the vessel above grade?	_____ (insert number) Feet ☐ Meters ☐
10.	Where are vessel supports located relative to the vessel body?	Below ☐ (Please illustrate) Mezzanine ☐ Above ☐ Other _____
VESSEL LOADING INFORMATION		
11.	What is the maximum dead weight (DW) load?	_____ (insert number) Feet ☐ Meters ☐
12.	What is the maximum live weight (LW) load?	_____ (insert number) Feet ☐ Meters ☐
13.	What is the maximum dynamic loading expected, if any?	_____ (insert number) Feet ☐ Meters ☐
14.	What is the maximum gross load expected under all operating conditions?	_____ (insert number) Feet ☐ Meters ☐
15.	Is the load evenly distributed on all supports? If not, illustrate worst case uneven distribution indicating the amount of load at the appropriate points.	Yes ☐ No ☐ lbs ☐ kg ☐
ENVIRONMENTAL CONSIDERATIONS		
16.	What is the UBC Seismic Zone Rating for the vessel location??	0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐
17.	What is the maximum wind speed expected to be at this location at any time?	_____ Mph (insert number) Wind speed calculations assume an empty vessel (worst case)

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SUMMARY CALCULATIONS (Provided by SENTRAN)	☐ Seismic	☐ Wind
Calculated center of gravity (CG)		
Note: Positive values indicate compressive loads. Negative values indicate tension loading.		
Operating load per load cell/weigh module (max)		
Lateral force		lbs ☐ kgs ☐
Overturning moment		lbs-ft
Uplifting force per load cell/weigh module (max)		lbs ☐ kgs ☐
Downward force per load cell/weigh module (max)		lbs ☐ kgs ☐
Horizontal force per load cell/weigh module (max)		lbs ☐ kgs ☐
RECOMMENDED LOAD CELL/WEIGH MODULE		
Model:	Quantity	

Customer/client information provided by (Please print name): _____

Signed: _____   **Date:** _____

_____

SENTRAN information provided by (Please print name): _____

Signed: _____   **Date:** _____