

20 July 2023 Campoformido, Italy
Brno Planetarium
Czech Republic

Object: Sales Order for Dome Cleaning

Signing this order form, the Customer will accept the following conditions.

- Quotation to clean exterior, by vacuuming, and interior, by vacuuming and or washing, of the 55 ft diameter NanoSeam, 360 degrees in plan, 180 degrees elevation Brno Observatory dome.

Total Price 42,000 Eur net

Terms:

- Spitz documents attached are part of the agreement
- Delivery location: Brno, Czech Republic
- Date of work: Week of Jan 8th
- Duration of work: 5 days
- Prices include equipment, supervision of service, and labor.
- Customer to supply access to facility, scaffolding per Spitz requirements, general lighting and power.
- Seats removed by others as required.
- All cleaning performed on a best effort basis as results vary with dome's general condition.
- VIES rules for VAT and invoicing applied
- Labor is non-union/non-prevailing wage.
- Prices valid for 90 days.
- Customer to provide Wifi for installation crew communication during dome work.

Payment Terms: 10% at order 90% upon completion

For: Skypoint srl

For:

By: _____

By: _____

Name: Marco Cosmacini

Name: Jiří Dušek

Title: CEO

Title: director

Date: 20 July 2023

Date: Jul 31, 2023

Skypoint Planetariums - A division of **Skypoint Srl**

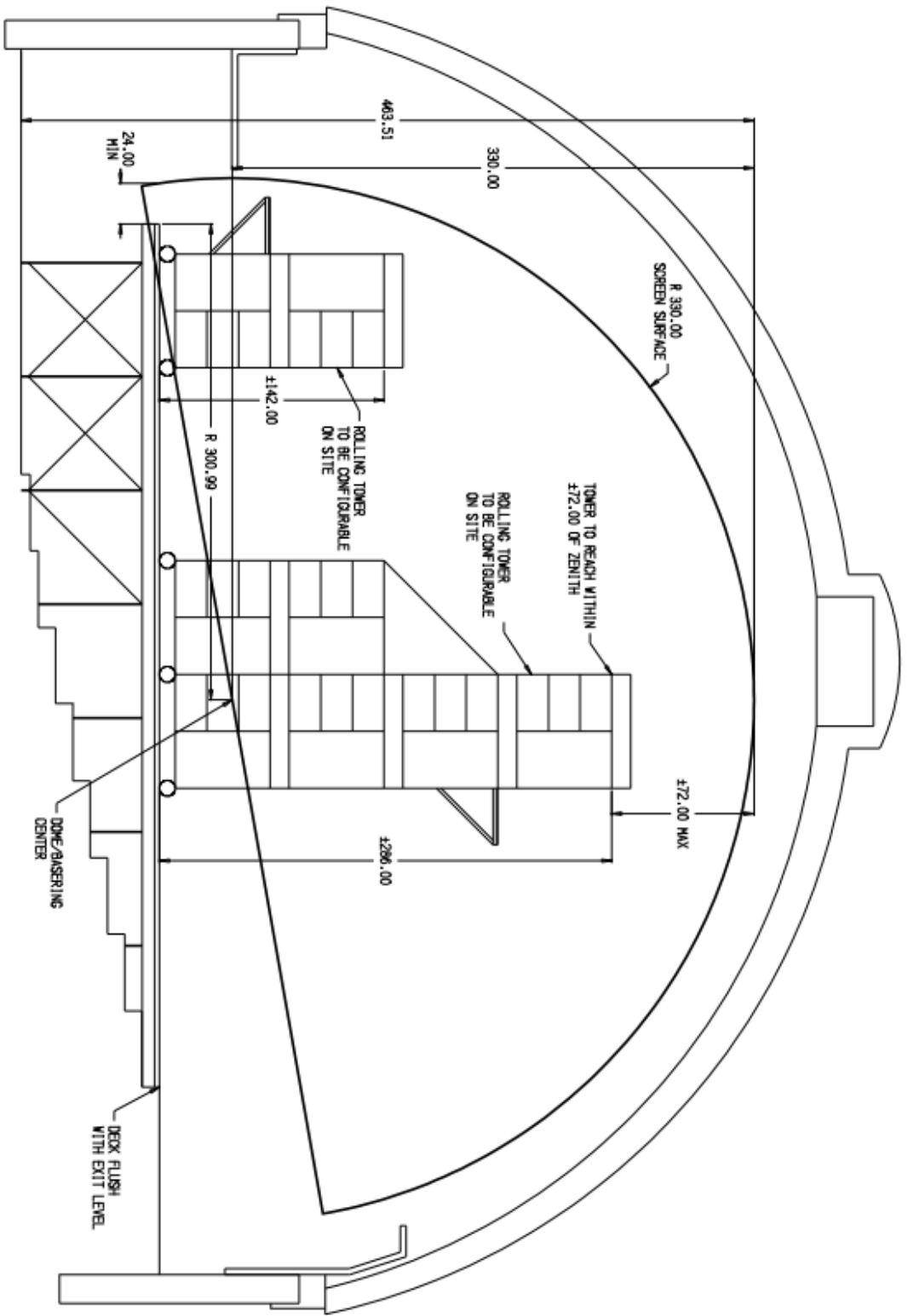
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European Representative for Evans & Sutherland, Spitz Inc., and GOTO Inc.

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- NOTES:
1. THE PURPOSE OF THE SCAFFOLD SYSTEM IS TO ALLOW ACCESS TO THE ENTIRE SCREEN SURFACE.
 2. (1) HIGH & (1) LOW ROLLING TOWER, CONFIGURABLE ON SITE, REQUIRED FOR DOME INSTALLATION.
 3. SMOOTH FLAT DECK FLOOR, ALLOWING FREE MOVEMENT OF ROLLING TOWER REQUIRED.
 4. MECHANICAL LIFTS (S) ACCEPTABLE ALTERNATE TO SCAFFOLD TOWER.
 5. SCAFFOLD SHOWN FOR DESIGN INTENT ONLY, COMPLIANCE WITH APPLICABLE CODE IS RESPONSIBILITY OF SCAFFOLD PROVIDER.
 6. BUILDING SHOWN FOR REFERENCE ONLY, ARCHITECTURAL DRAWING MODIFIED FOR CLARITY.
 7. DIMENSIONS ARE IN MILLIMETERS.

DRAWING # 305743 REVISION B	SIZE C	SHEET 8 OF 8	VIEW SCAFFOLD	REVISION : DATE A : 03/05/13 B : 05/13/13	55ft ø 180° DOME 46 GORES - 10° TILT NOWATRON ELECTRONIK BRNO, CZECH REPUBLIC	DRAWN AM CHECKED SCALE NONE		SALES ORDER # GAIN PS	5069 0.55 1.00
	DO NOT SCALE DRAWING				<small>THIS DRAWING IS THE PROPERTY OF SPITZ, INC. AND IS SUBJECT TO RECALL AT ANY TIME. IT IS LOANED FOR REFERENCE PURPOSES ONLY UNDER THE CONDITION THAT IT NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF SPITZ, INC., AND SHALL NOT BE DISCLOSED TO OTHERS WITHOUT PERMISSION.</small>			700 BRANDYWINE DRIVE CHADDS FORD, PA 19317 USA PH: (610) 459-5200 FX: (610) 459-3830 email: spitz@spitzinc.com	



Scaffold Guide

Version 1.5

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1.0 Concept

- 1.1 The most important element in the scaffold system required for erecting the Spitz screen is flexibility.
- 1.2 The scaffold system typically has two functions:
 - 1.2.1 To provide working platforms for the high-reach areas in order to complete the interior of the building chamber housing the screen, which may include but not be limited to HVAC ducts, insulation, speakers, suspension anchors, and painting.
 - 1.2.2 To provide working platforms for the erection of the Spitz screen.

2.0 General

- 2.1 The purpose of the scaffold system is to allow access to the entire screen surface, and to all connections between the screen and the building.
- 2.2 The scaffold provider bears the sole responsibility for ensuring any erection conforms to all applicable laws, ordinances, and local codes.
- 2.3 The scaffold system must provide allowance for materials, tools, and workers to gain access to all decks and sub-deck perimeter platforms where applicable. This may necessitate ladders, stairs, material elevators, or material hoists. See Figures 8a and 8b.
- 2.4 All scaffold components shall be clean and free of dried concrete, plaster, dust, and debris.
- 2.5 A typical screen panel is approximately seven feet high and four feet wide, and requires one worker to handle the bottom of the panel and a second worker to handle the top of the panel.

3.0 Rolling Towers

- 3.1 Rolling towers shall be constructed for ease of movement as well as frequent reconfiguration. See Figures 1 and 2.
- 3.2 In some situations, the rolling tower platform heights may only accommodate installing several panels before requiring a height change, therefore the rolling tower will be changing constantly.
- 3.3 Rolling towers shall have large diameter (8in minimum) locking swivel casters.

- 3.4 Rolling towers shall have reconfigurable side mount outrigger platforms. See Figures 6, 7a, and 7b.
- 3.5 Rolling towers shall be designed for a minimum uniformly distributed live load of 1,000 pounds.
- 3.6 Rolling towers shall be constructed from double box style frame and brace (aka Mason or Sectional) components. Step-through ladder style frames are also acceptable, but walk-through style frames are unacceptable. See Figures 3, 4, and 5.
- 3.7 Rolling towers shall be made from standard seven-by-five-foot sections. Section heights (36-, 48-, 60-, 76-inch high) shall vary as required by site conditions.
- 3.8 Each high rolling tower shall have sufficient walk boards for three working platform levels and two outrigger levels.
- 3.9 Each low rolling tower shall have sufficient walk boards for two working platform levels and one outrigger level.
- 3.10 Walk boards shall be 7 feet long by 19 inches wide aluminum-plywood style. See Figure 7a. Aluminum-aluminum style walk boards are acceptable but less desirable. See Figure 7b.
- 3.11 Rolling towers shall have safety rails on the three non-working sides; the working side (facing the screen surface) shall be open with no safety rail.
- 3.12 The use of several rolling towers of multiple sizes at the same time may be required for erecting the screen.
- 3.13 Rolling towers shall be no more than one frame wide and four frames tall, using standard seven by five foot sections, without the use of stabilizer legs.

4.0 Decks

- 4.1 The configuration of the building chamber which houses the screen may require the use of multiple decks at multiple levels. This may include, but not be limited to, main and aft decks, and sub-deck perimeter platforms.
- 4.2 Decks shall provide a smooth, level, and continuous surface.
- 4.3 Decks shall allow free and easy movement of the rolling towers.

- 4.4 Decks shall be covered with a minimum of three-quarter (3/4) inch thick plywood and shall have no gaps, voids, or overlaps.
- 4.5 Decks shall be designed for a minimum uniformly distributed load of 35 pounds per square foot.
- 4.6 Decks originally installed for the completion of building components shall be thoroughly cleaned or replaced, and if required, reconfigured, prior to the installation of the Spitz screen.
- 4.7 Unless otherwise noted, decks shall follow the curvature of the screen with a minimum of 12 inches and a maximum of 24 inches separation distance.
- 4.8 When required, deck edges shall have safety rails along all non-working edges; the working edge (facing the screen surface) shall be open with no safety rail.

5.0 Sub-deck Perimeter Platforms

- 5.1 Sub-deck perimeter platforms shall be installed where the screen extends below the main deck.
- 5.2 A number of different scaffolding methods may be used on sub-deck perimeter platforms: side brackets which fit into the end frames; putlogs clamped onto the frame; narrow scaffold sections; tube and clamp; wood shoring and floor jacks have all been used.
- 5.3 The use of overlapping laminated or solid sawn scaffold boards is allowed.
- 5.4 Unless otherwise noted, sub-deck perimeter platforms shall follow the curvature of the screen with a minimum of 12 inches and a maximum of 24 inches separation distance.
- 5.5 When required, sub-deck perimeter platform edges shall have safety rails along the non-working edges; the working edge (facing the screen surface) shall be open with no safety rail.

6.0 Aft Decks

- 6.1 An aft deck may be required if seating risers or other building elements exist above the main deck.
- 6.2 Unless otherwise noted, aft decks adhere to the same requirements of main decks.

7.0 Component Examples

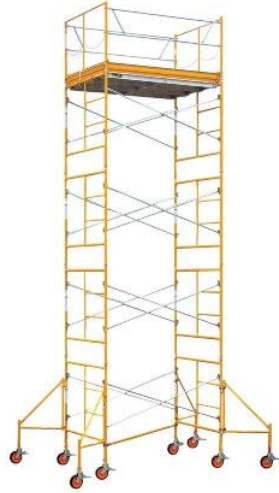


Figure 1 – High rolling Tower



Figure 2 – Low Rolling Tower

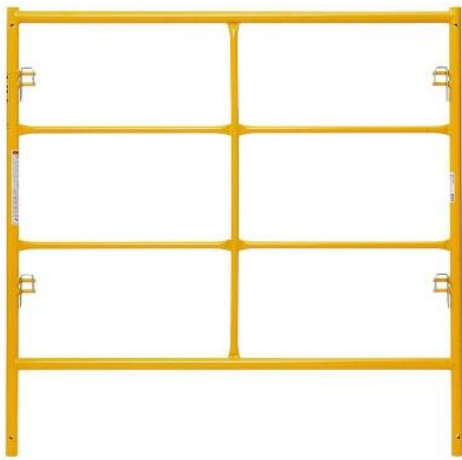


Figure 3 – Ladder/Double Box Style
Frame Section - PREFERRED

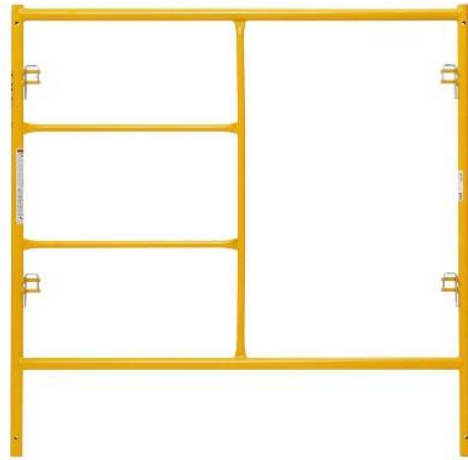




Figure 4 – Step-Through Ladder
Frame Section – ALTERNATE

	
<p>Figure 5 – Walk-Through Style Frame Section - UNACCEPTABLE</p>	<p>Figure 6 – Side Mount Outrigger Bracket</p>

	
<p>Figure 7a – Aluminum/Plywood Style Walk board - PREFERRED</p>	<p>Figure 7b – Aluminum/Aluminum Style Walk board - ALTERNATE</p>



Figure 8a – Material Hoist



Figure 8b – Material Hoist