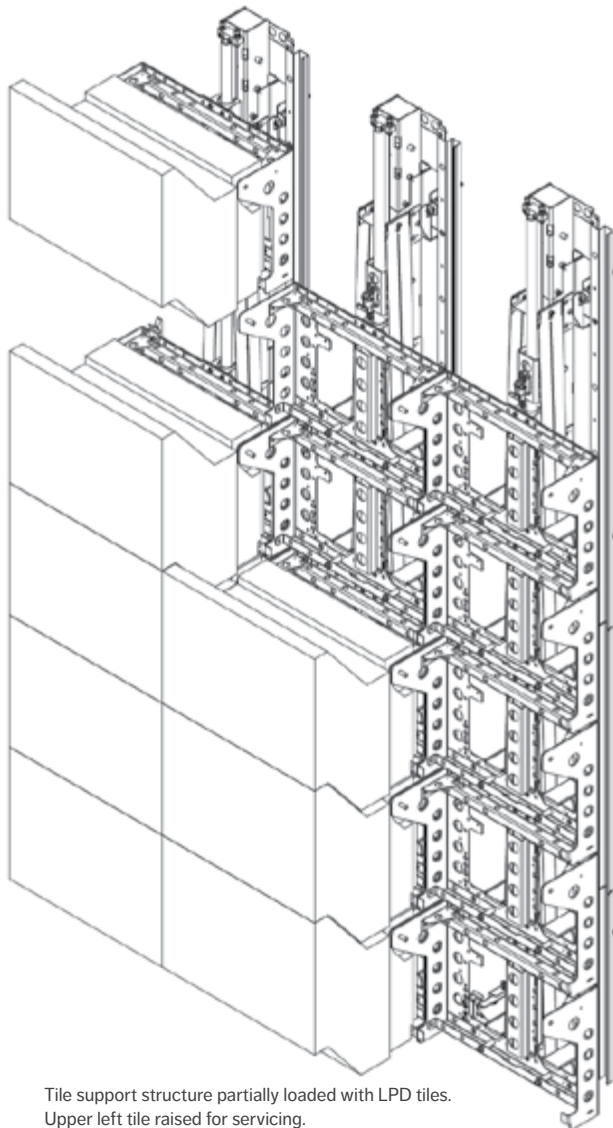**PRYSM**

Premium Frame 2

The Premium Frame 2 is Prysm's most flexible framing system for Laser Phosphor Display (LPD) video walls. It enables displays of unlimited height and width and can be mounted to floors, walls or overhead structures. Its modular architecture frees the display designer from traditional formats and allows rapid installation in configurations tailored to the host facility and to specific content.

The Premium Frame 2 is the best choice for mission-critical applications. In the unlikely event of a failure, it provides quick access to any part of the video wall for rapid replacement of components.

For more information, contact us at sales@prysm.com, 1.877.99.PRYSM or +1.408.586.1100.

Tile support structure partially loaded with LPD tiles.
Upper left tile raised for servicing.

Applications

The Premium Frame 2 is a modular solution for creating large video walls in high-profile or mission-critical applications.
For maximum flexibility, the Premium Frame 2 system is offered in the following configurations:

▸ **Tile Support Structure + Prysm Subframe**
  The tile support structure includes the modular mechanical components that precisely position the LPD tiles in the video wall as well as a floor-mounted support structure. It supports video walls up to eight tiles high (10 ft, 3 m) and any width.

▸ **Tile Support Structure + Host Facility Subframe**
  A tile support structure of any height and width supported by a customer-provided subframe designed to Prysm's specifications for each installation site.

Features

▸ The most flexible framing system for LPD video walls.

▸ For areas with minimal ceiling clearance.

▸ A Prysm subframe allows floor installations up to eight tiles in height and unlimited width.

▸ A customer-supplied host facility subframe (requiring only common materials and construction techniques) allows a video wall of unlimited height and width.

▸ Prysm's rapid-service framing solution for mission-critical applications (direct access to any tile in the video wall).

▸ Modular architecture for rapid installation.

▸ Supports straight or horizontally curved displays.

▸ Maintains precise alignment of LPD tiles.

▸ Exterior panels can be attached to customize the video wall's appearance.

▸ Removable hoist facilitates safe and efficient tile installation and servicing.

▸ Integral cable harnesses provide orderly cable management.

Configuration	Tile Support Structure + Prysm Subframe [1]	Tile Support Structure + Host Facility Subframe
Mounting	Floor [2]	Floor
		Wall
		Overhead
Depth	28.3 in, 720 mm [3]	28.0 in, 710 mm [4]
Display Top Edge Clearance (min) [5]	0.37 in, 10 mm	0.37 in, 10 mm
Display Lower Edge Height (min)	15.0 in, 380 mm	5.7 in, 145 mm
Height (maximum)	4 to 8 tiles (10 ft, 3 m)	4 to unlimited tiles
Width (maximum)	Unlimited	Unlimited
Horizontal Curvature	0 – 10°	Determined by sub-frame
Tilt (forwards or backwards)	Not possible	15° (max) from vertical
TD2 Tile Specifications	Dimensions W × H × D : 20 in × 15 in × 16 in Weight: 67.3 lbs, 30.5 kg	
Seam (typical tile-to-tile spacing) [6]	< 0.03 in, 0.5 mm	
Leveling Adjustment	± 1.5 in (39 mm) provided by adjustable feet on each footer (or on each riser, if used).	
Footer Setback (from tile display surface)	1.5 in, 38 mm	
Required Clearance – Tile Service	Front: 23.6 in, 60 cm Rear: 2.4 in, 6.4 cm Top/Bottom: 21.3 in, 54 cm [7]	
Required Clearance – Passive Ventilation [8]	Front: None Rear: 1.6 in, 4 cm [9] Top/Bottom: 4.2 in, 10.5 cm	
Tile Replacement	< 20 minutes (per tile × number of tiles controlling access)	
Cooling	Passive ventilation, aided by on tile fans [10]	
Frame Finish	Powder-coated matte black	
RoHS	Yes	

Frame Weight & Dimensions (excluding tiles and electronics)

Tile Support Structure Weight [11]	Per tile: 34.6 lb, 15.7 kg Per column: 17.8 lb, 81.1 kg				
Tile Support Structure + Prysm Subframe	Tile Height:	4-High	5-High	6-High	7-High	8-High
	Weight:	265 lb 121 kg	326 lb 148 kg	370 lb 168 kg	413 lb 188 kg	458 lb 208 kg

[1] A Prysm subframe for each column consists of one core column for tiles plus one upright assembly.

[2] Requires additional custom anchoring.

[3] Measured from tile display surface to the back of the Prysm subframe.

[4] Measured from tile display surface to the rearmost tile support structure component (does not include host facility sub-frame).

[5] In Operate Up position. Clearance is for anything above the top row of tiles (such as a ceiling, a soffit, or a touch sensor frame).

[6] For video walls greater than eight tiles high, the horizontal gap between upper tile rows can increase to accommodate accumulated dimensional tolerances.

[7] Access for tile replacement can be obtained by moving higher tiles up (standard) or lower tiles down. Access mechanism is set during installation and the total clearance must allow the specified range of motion.

[8] Ambient conditions of video wall with fewer than 30 tiles: < 30° C, 20% – 80% RH, unobstructed airflow. Larger installations, and those without minimum ventilation clearances or assumed ambient conditions, need thermal analysis and may require forced air cooling.

[9] Allowable position of a rear wall measured from the rear surface of the Prysm subframe. Clearance required behind a host facility subframe is design dependent.

[10] Generally adequate for displays of ≤ 30 tiles in controlled environments with an unobstructed airflow paths above the image: 4 in. tall by full image width, and below the image: 2 in. tall by full image width.

[11] Approximation.

[12] For large walls with more installers, more tile lift bars should be used. (For tile support structures taller than 12 tiles, contact Prysm for information.)

Parts & Accessories

Accessory	Description
Tiles	Laser Phosphor Displays
Hoist	Temporarily attaches to the frame for loading and replacement of tiles (one per wall).
Tile Lift Bar	Tool temporarily attaches to the LPD tile to facilitate transport and handling (one per wall [12]).
Prysm Image Processor Bracket	Bracket (19 in, 1 RU) allowing attachment of IP2 to the rear of the Prysm subframe. Adds 2.5 in, 6.4 cm to depth (optional, one per IP2).
Riser Assembly	Elevates Prysm subframe by 6 to 9 in (15 to 23 cm) (optional, two per footer).
Stablizing Bracket	Optional bracket to secure Prysm subframe to host structure.
Seismic Hold-Down Kits	Used to anchor upright assembies directly to the floor.
Panel Edge Protector (Replacement)	Tape placed temporarily between tiles to prevent glass-to-glass contact during motion (consumable).
Cosmetic Skins and Enclosures	Exterior panels can be attached to the frame to tailor its appearance to customer requirements (optional).
Tile Support Structure	Components that support the LPD Tiles; these include the Spine assemblies, clocking beams, and tile baskets.
Subframe	The perch beams and uprights can be off-the-shelf, Prysm-supplied (for video walls up to maximum of 8 tiles high) or custom-supplied (for unique configurations).

Tile Support Structure with one Tile installed

Core: Clocking Beam, Tile Basket, Tile (Display), Seismic Hold-Down Kit

Subframe: Extension, Perch Beam, Upright, Perch Beam, Footer, Riser Assembly (x2), Adjustable Foot (x2), Upright Assembly