PARKING GARAGE PANELS

The following are the items that need to be considered when choosing a panel system.

- **Structural Integrity**: There are multiple ways to engineer and design a metal panel system.
  1. The most common design is tube frame with flat panels, mesh, or perforated panels mounted either mechanically or by welding.
  2. Revamp uses Laser Cut metal panels that are folded to provide the structural integrity instead of tube frames.

- **Aesthetics**: The purpose of the panel system is to enhance the look of the parking structure with a pattern theme and modulation.
  1. The downside of using a metal panel system is that the panels can oil can and warp without adequate support. The thicker the material the less chance of warping. When utilizing a frame system, the amount of fastening points is critical to minimize.
  2. A folded system will counter most oil canning and warping. Size of panels will be determined by openness of pattern.

- **Weight**: The building structure must be able to support the panel systems. It is important to minimize weight without diminishing structural integrity.
  1. Revamp’s system weighs less since we have got rid of the framing. We can also fabricate out of Aluminum to reduce weight.

- **Ease of Install**: Most panel systems will be installed using a lift and/or crane. It is important that the system is easily fastened to the building.
  1. Revamp will design and fabricate a system that show up on site ready to mount with minimum effort, thus saving expensive erection costs. The lighter weight system allows for less attachment points and easier mounting.

- **Attachment**: There are unlimited ways to mount the panel system. We recommend one of the following. Revamp will need to work with the building structural engineer.
  1. Anchor bolts mounted into the structure. Works well with concrete. Brackets will be mounted to the anchor bolts prior to panel installation.
  2. Knife brackets. Like an anchor bolt installation but saves the bracket install step.
  3. Mounting brackets bolted on after structure is complete.
- **Maintenance**: When working with metal any overlapping surface can be an area of oxidation. We recommend that any overlapping surface has a continuous weld to keep moisture out or that each is a separate piece allowing for powder coating before mechanically fastening.

  1. A tube frame system has a lot of overlapping surfaces. A continuous weld is almost impossible so the panels should be mounted mechanically.
  2. Revamp’s system has very little overlapping surfaces and will either be a continuous weld or hidden fasteners.

- **Lighting**: When using panels with patterns there is an opportunity to highlight each panel system. We have used LED strip and Puck lighting. Puck lighting will be less expensive.

  1. Revamp’s folded panel system allows for multiple areas to mount and hide LED strip lighting.
  2. We can also accommodate a center puck light for each panel system by providing a blank area so you don’t see the light. The blank area can be designed as an access panel for light maintenance.

- **Cost**: Budgets are critical. Since our system is a less complicated approach, the overall costs are usually less both short term and long term. There are more factors to costs than just the panel system.

  1. **Panel system**: What is the cost per square foot and does it show up on site ready to be installed?
  2. **Finishing**: We provide a two-part powder coat system, primer and finish for lower long-term maintenance costs. This also allows the product to be directly installed and no need for site painting.
  3. **Ease of installation**: This could be a major cost factor.
  4. **Weight**: The more the system weighs the more building support required. It will be important to work with building design to determine if upgrading to Aluminum is worth the cost.
  5. **Patterns**: The more detailed the pattern the more expensive it is to cut. Revamp can provide options.