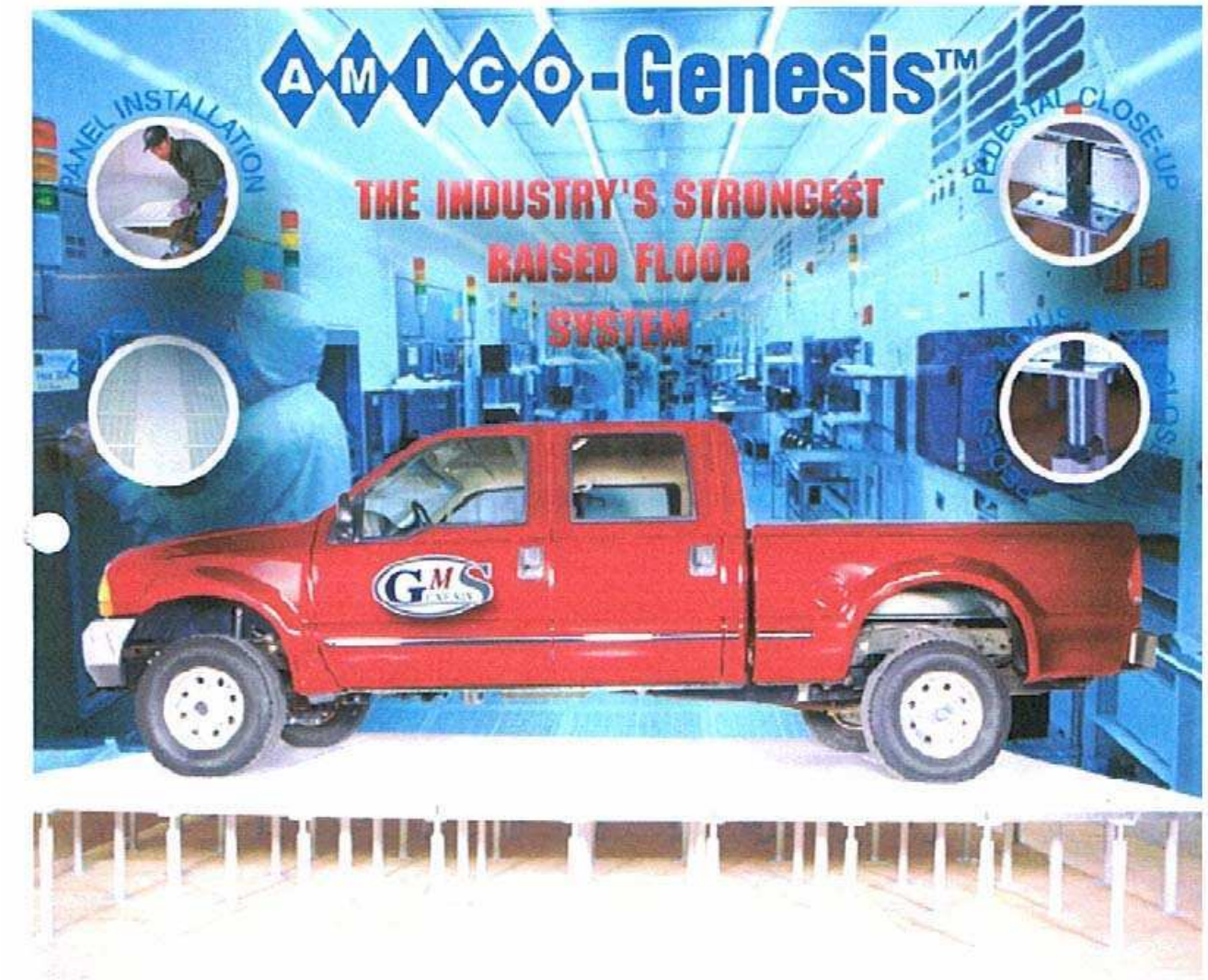
# GMS Industrial Access Floor Systems




AMICO® GENESIS

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# STEEL PANELS

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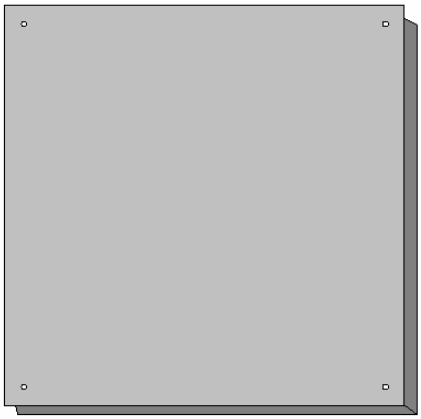
# GMS3000 Solid Steel Panels

Cleanroom industry's **STRONGEST** access floor system with identical load ratings on the solid panel, perforated, and the slotted panel.

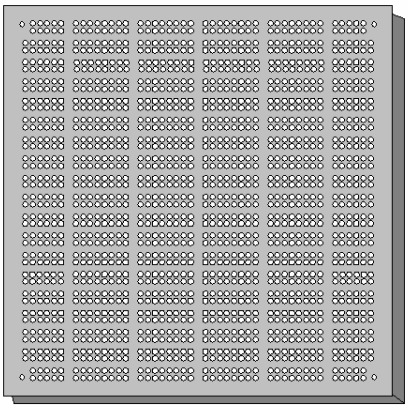


**Encapsulated Steel Panel**
The solid panel, integrally welded to provide unmatched strength in a one piece panel with full integrity.

| Descriptive Loads* | Imperial Rating | Metric Rating |
|---|---|---|
| Rolling | 3000 lbs. | 1350 kg |
| Concentrated | 3000 lbs. | 1350 kg |
| Ultimate | 10,000 lbs. | 4500 kg |
| Uniform | 20,000 lbs. | 9000 kg |

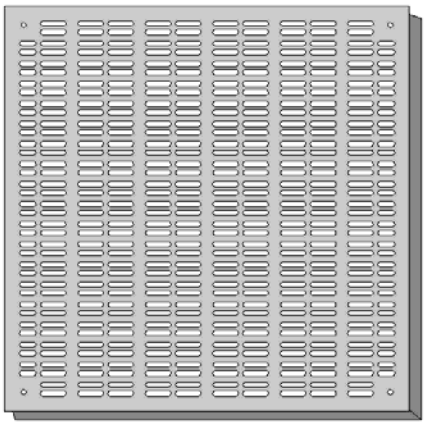
*C.I.S.C.A., F.A.T. tested

**Encapsulated Steel Perforated Panel**
The solid perforated panel, integrally welded into a one piece steel panel providing identical load ratings as the solid panel with 40% open area for air flow. **



| Descriptive Loads* | Imperial Rating | Metric Rating |
|---|---|---|
| Rolling | 3000 lbs. | 1350 kg |
| Concentrated | 3000 lbs. | 1350 kg |
| Ultimate | 10,000 lbs. | 4500 kg |
| Uniform | 20,000 lbs. | 9000 kg |

*C.I.S.C.A., F.A.T. tested
** Airflow: 40% open area, 818 cfm @ .10 static pressure



**Encapsulated Steel Slotted Panel**
The solid steel slotted panel, integrally welded into a one piece steel panel providing identical load ratings of the perforated and solid panel with 55% open area for air flow.**

| Descriptive Loads* | Imperial Rating | Metric Rating |
|---|---|---|
| Rolling | 3000 lbs. | 1350 kg |
| Concentrated | 3000 lbs. | 1350 kg |
| Ultimate | 10,000 lbs. | 4500 kg |
| Uniform | 20,000 lbs. | 9000 kg |

*C.I.S.C.A., F.A.T. tested
** Airflow: 55% open area, 1497 cfm @ .10 static pressure

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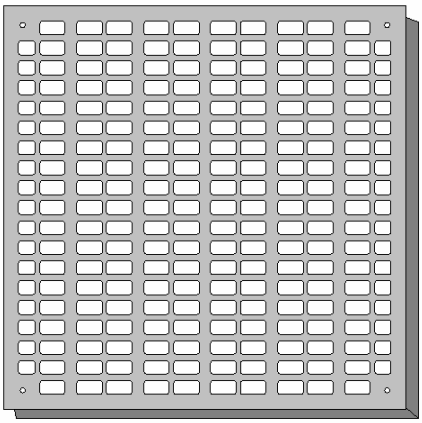
# GMS3000 Solid Steel Perforated Panels

Cleanroom industry's **STRONGEST** access floor system



**Encapsulated Steel 64% Slotted Panel**
The solid steel slotted panel, integrally welded into a one piece steel panel.With 64% open area for air flow.** When maximum airflow and strength integrity is required.

| Descriptive Loads* | Imperial Rating | Metric Rating |
|---|---|---|
| Rolling | 1500 lbs. | 675 kg |
| Concentrated | 1500 lbs. | 675 kg |
| Ultimate | 5000 lbs. | 2250 kg |
| Uniform | 10,000 lbs. | 4500 kg |

Airflow: 64% open area
*C.I.S.C.A., F.A.T. tested

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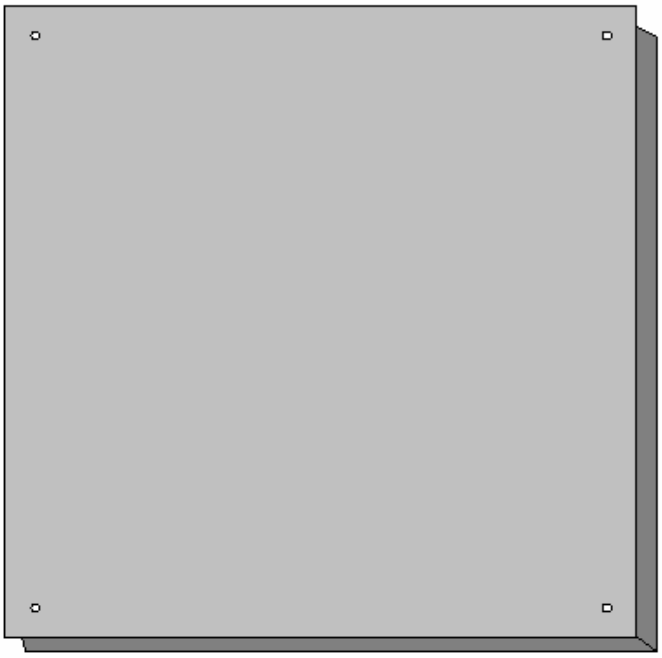
# GMS3000 Solid Steel Panel

Cleanroom Industry's **STRONGEST** access floor system



## Encapsulated Steel Panel

The solid steel panel, integrally welded to provide unmatched strength in a one piece pall with full integrity.

| Descriptive Loads* | Imperial Rating | Metric rating |
|---|---|---|
| Rolling | 3000 lbs. | 1350 kg |
| Concentrated | 3000 lbs. | 1350 kg |
| Ultimate | 10,000 lbs. | 4500 kg |
| Uniform | 20,000 lbs. | 9000 kg |

Panel thickness: 1.375" / 3.49 cm with E.P.P. or E.N.P. finish
Edge detail: Monolithic ( no edge trim)
Chemical resistant finishes
*C.I.S.C.A., F.A.T. tested

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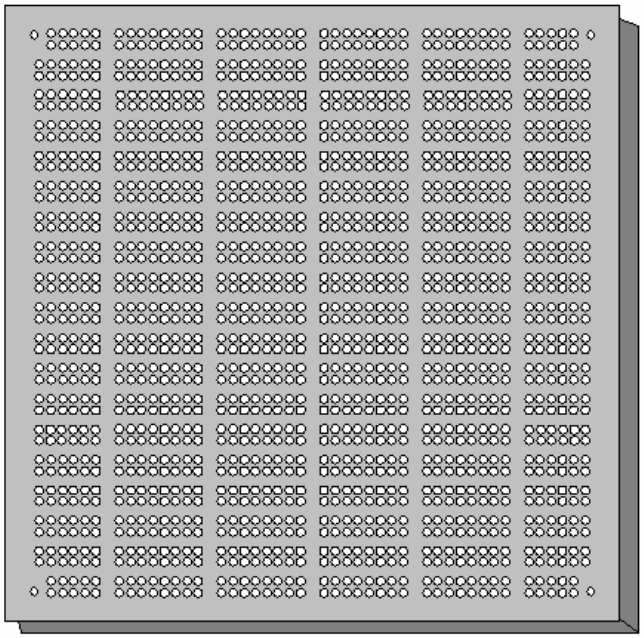
# GMS3000 Solid Steel Perforated Panel

Cleanroom Industry's **STRONGEST** access floor system



## Encapsulated Steel Perforated Panel

The solid steel perforated panel, integrally welded into a one piece steel panel providing identical strength ratings of the slotted and solid panels. The slotted panel provides 40% open area for maximum air flow.

| Descriptive Loads* | Imperial Rating | Metric rating |
|---|---|---|
| Rolling | 3000 lbs. | 1350 kg |
| Concentrated | 3000 lbs. | 1350 kg |
| Ultimate | 10,000 lbs. | 4500 kg |
| Uniform | 20,000 lbs. | 9000 kg |

Panel thickness: 1.375" / 3.49 cm with E.P.P. or E.N.P. finish
Airflow: 40% open area 818 cfm @ .10 static pressure
Edge detail: Monolithic ( no edge trim)
Chemical resistant finishes
*C.I.S.C.A., F.A.T. tested

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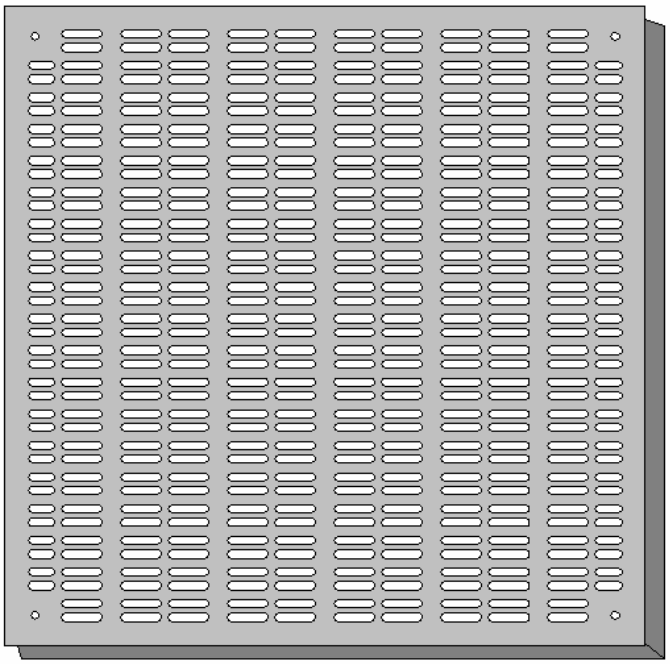
# GMS3000 Solid Steel Slotted Panel

Cleanroom Industry's **STRONGEST** access floor system



## Encapsulated Steel 55% Slotted Panel

The solid steel slotted panel, welded into a solid steel panel with the identical strength ratings of the perforated and solid panels. The slotted 55% panel provides 55% open area for maximum air flow.

| Descriptive Loads* | Imperial Rating | Metric rating |
|---|---|---|
| Rolling | 3000 lbs. | 1350 kg |
| Concentrated | 3000 lbs. | 1350 kg |
| Ultimate | 10,000 lbs. | 4500 kg |
| Uniform | 20,000 lbs. | 9000 kg |

Panel thickness: 1.375" / 3.49 cm with E.P.P. or E.N.P. finish
Airflow: 55% open area 1497 cfm @ .10 static pressure
Edge detail: Monolithic ( no edge trim)
Chemical resistant finishes
*C.I.S.C.A., F.A.T. tested

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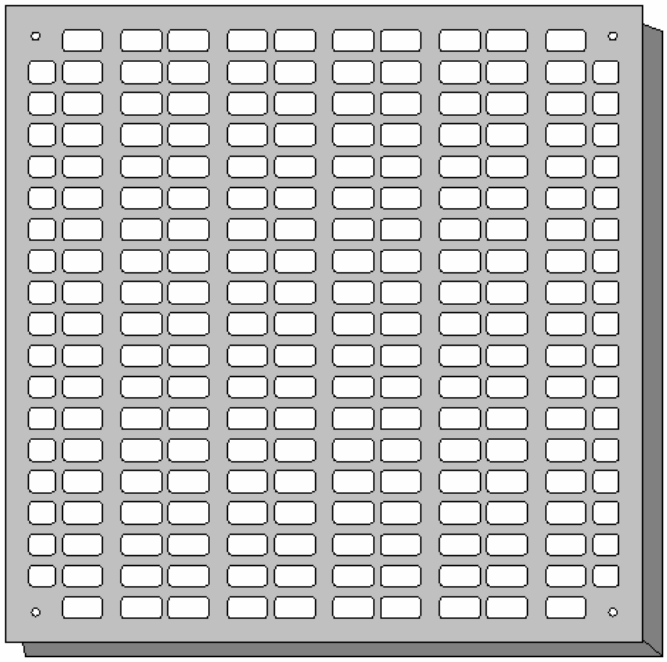
# GMS3000 Solid Steel Slotted Panel

Cleanroom Industry's **STRONGEST** access floor system



## Encapsulated Steel 64% Slotted Panel

The solid steel 64% slotted panel, welded into a solid steel panel. The slotted panel provides 64% open area for maximum air flow. When maximum air-flow and strength integrity is required.

| Descriptive Loads* | Imperial Rating | Metric rating |
|---|---|---|
| Rolling | 1500 lb | 675 kg |
| Concentrated | 1500 lb | 675 kg |
| Ultimate | 5000 lb | 2250 kg |
| Uniform | 10,000 lb | 4500 kg |

Panel thickness: 1.375" / 3.49 cm with E.P.P. or E.N.P. finish
Airflow: 64% open area
Edge detail: Monolithic ( no edge trim)
Chemical resistant finishes
*C.I.S.C.A., F.A.T. tested

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# STAINLESS STEEL PANELS

## (Available On Special Order)

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# UNDERSTRUCTURE

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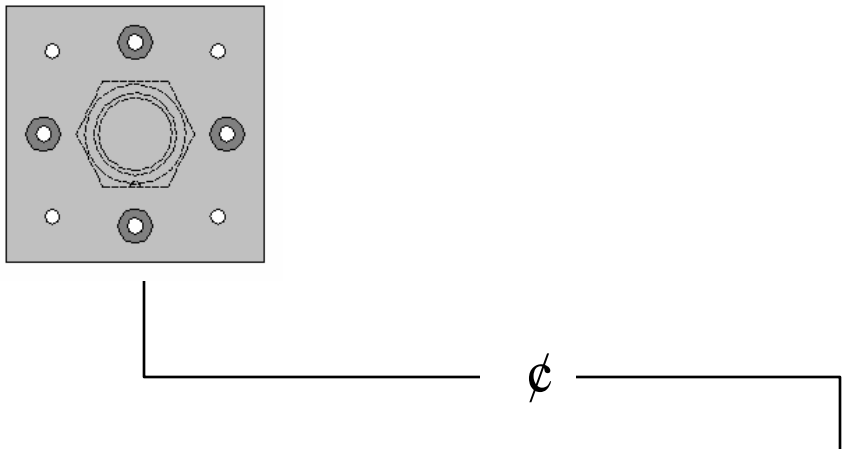
# GMS3000 Steel Pedestal Head

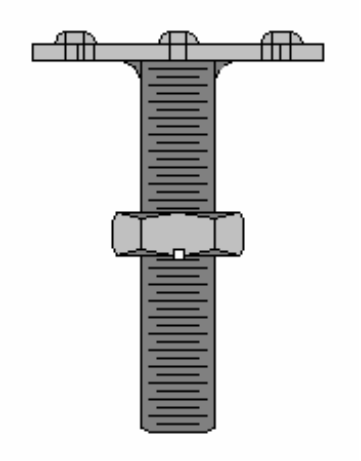


Steel with E.P.P. finish for additional surface protection and corrosion resistance. Heavy load reinforced head and foot.

Axial load of 10,000 lbs./ 4500 kg.

Seismic zone 4 certified with 2500 lbs. / 1125 kg live load.

Chemical resistant finishes.



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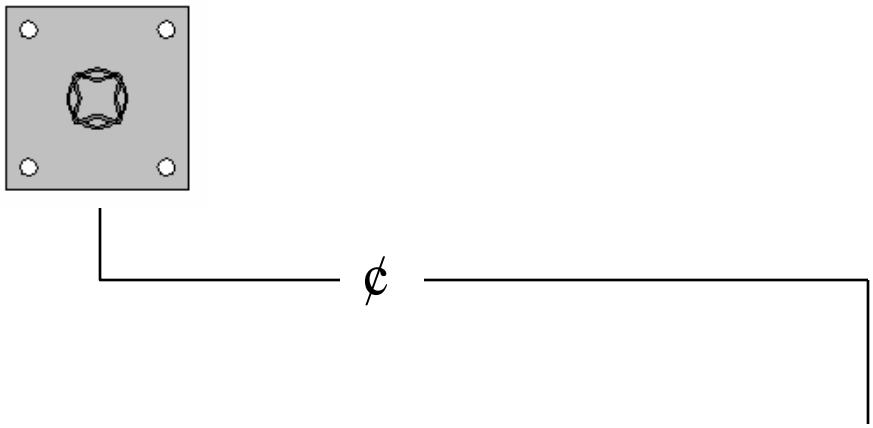
# GMS3000 Steel Pedestal Base



Steel with E.P.P. finish for additional surface protection and corrosion resistance. Load reinforced tube and base plate.

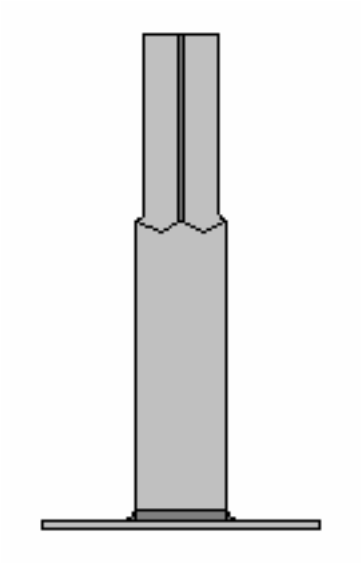
Base plate with four (4) holes for gluing or anchoring into the floor

Axial load of 10,000 lbs./ 4500 kg.

Overturning moment of 1000 inch–pounds / 450 kg.

Seismic zone 4 certified with 2500 lbs. / 1125 kg live load.

Chemical resistant finishes.



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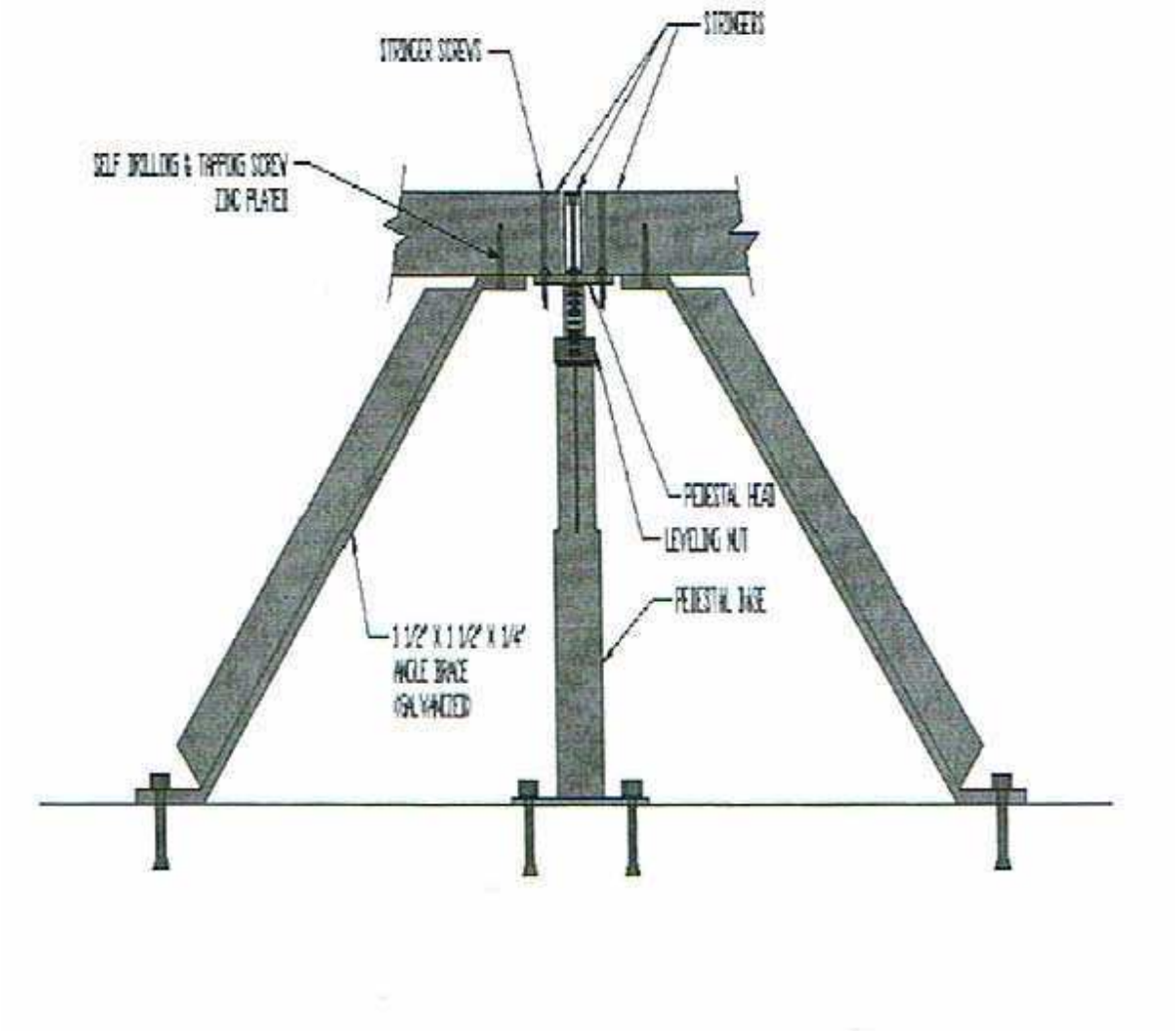


## GMS3000 Pedestal Bracing

Vibration and seismic bracing providing intricate, flexible tuning to tolerances of sensitive semiconductor process equipment.

For utilization as system requirements change in the workplace.

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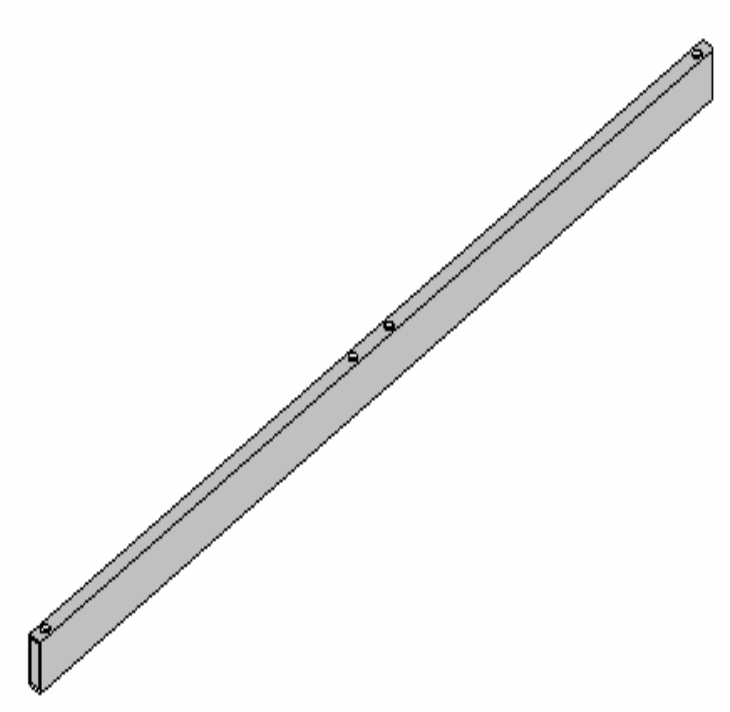
# GMS3000 Steel Stringers



**GMS3000 4.0’ / 1.2 m Stringer**

Steel E.P.P. coated, stringer in 2.0” / 5.08 cm profile height for increased load bearing capacity.

2500 lbs. / 1125 kg center load rating.

Particularly designed for installations in heavy load applications.

Chemical resistant finishes.

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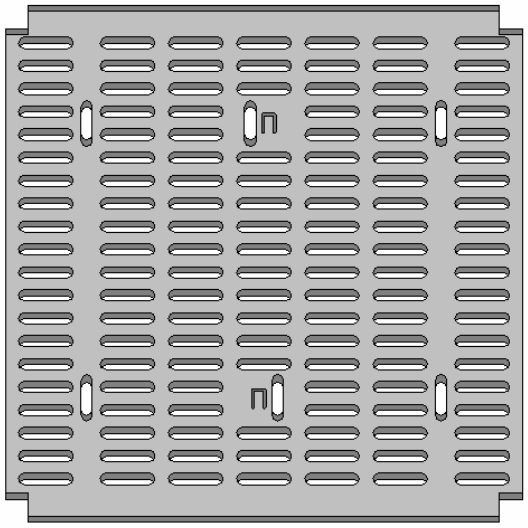
# GMS3000 Dampers



**Encapsulated Steel Panel**

Two piece slide dampers provided with 6 retainer clips. Dampers can be shop installed or field installed. Finish to be standard powder coat or pre-galvanized

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# FINISHES AND CHEMICAL SPECIFICATIONS

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# Encapsulated Plating Process

Developed by AMICO-Genesis, the Encapsulated Plating Process (E.P.P.™) encompasses panel cleaning, etching, and specially formulated hybrid-baked coating.

The encapsulated plating process E.P.P.™ is a textured wearing surface applied to the access floor panel. The E.P.P.™ is provided with a choice of being conductive or static dissipative to meet the various requirements of the clean room, fabrication assembly or test assembly facility

Full encapsulation of the entire AMICO-Genesis access flooring system is ensure, making AMICO-Genesis the clean room industry's premier access floor system.

## E.P.P.™

EPP surface provides strength and durability of epoxy type surfaces with chemical resiliency of plated finishes.

EPP surface eliminates edge trim breakage, surface delamination, staining, and chipping associated with laminated products.

EPP provides ease of maintenance and field repair for longer product life cycle.

EPP surfaces are available in custom colors.

EPP manufacturing lead times are consistent and are not subject to lamination manufacturers backlog.

EPP surface is applied to both the top and the bottom of the panel to eliminate any possible contaminates.

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# Encapsulated Nickel Plating

Developed by AMICO-Genesis, the Encapsulated Nickel Plating (E.N.P.™) consists of a complete plating process which makes the panel resistant to chemicals.

The E.N.P.™ totally encapsulates the panel including the sides and bottom. When encapsulated, the AMICO-Genesis access floor panel is highly chemical resistant, chip resistant, and impervious to any shedding of particles.

Full encapsulation of the entire AMICO-Genesis panels are ensured, making AMICO-Genesis the clean room industry's premier access floor system.

## E.N.P.™

ENP surface provides strength and durability in excess of epoxy type surfaces with high resistance to chemicals.

ENP surface eliminates edge trim breakage.

ENP eliminates surface delamination.

ENP surface resists stains.

ENP surface is chip resistant.

ENP surface provides ease of maintenance.

ENP surface requires no field repair during long product life cycle.

ENP surfaces encapsulates all particulates resulting in a cleaner environment than laminate surfaces

ENP eliminates off gassing issues present with laminate adhesives.

ENP provides total panel encapsulation with a true nickel plate coverage.

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# Encapsulated Trim-less Edge

Developed by AMICO-Genesis, the Encapsulated Trim-less Edge (E.T.E..™) consists of three stages of cleaning, edging, and plating.

The E.T.E.™ process is used when a laminate finish is required on the access floor panel. This E.T.E process encapsulates the laminate with a finish that provides a high level of chip resistance to the laminate edge, reduces the brittle characteristics of the edge trim and eliminates the high maintenance issues of the trim edge products.

Full encapsulation of the entire AMICO-Genesis panels are ensured, making AMICO-Genesis the clean room industry's premier access floor system.

## E.T.E.™

ETE eliminates edge trim.

ETE surface encapsulation retards laminate staining.

ETE retards chipping for a longer product life cycle..

ETE surface encapsulation retards delamination.

ETE surface encapsulation provides ease of maintenance.

ETE improves ease of field repair during long product life cycle.

ETE surface improves edge wear of laminates.

ETE surface eliminates contaminate collecting cavities of integral, snap on or fastened edge trim treatments.

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# Chemical Resistance Chart

| Chemical | |
|---|---|
| **Acids** | |
| Acetic, 10% | F |
| Acetic, Glacial | P |
| Benzene Sulfonic, 10% | F |
| Benzoic | E |
| Boric | E |
| Butyric, 100% | F |
| Cholacetic, 10% | E |
| Chromic, 5% | P |
| Citric, 10% | E |
| Fatty Acids | E |
| Fluosilicic | P |
| Formic, 90% | P |
| Hydrobromic, 20% | G |
| Hydrochloric, 20% | G |
| Hydrocyanic | E |
| Hydrofluoric, 20% | P |
| Hydrochlorous, 5% | G |
| Lactic, 5% | F |
| Maleic, 25% | E |
| Nitric, 5% | F |
| Nitric, 30% | P |
| Oleic | E |
| Oxalic | E |
| Phosphoric | G |
| Picric | G |
| Stearic | E |
| Sulfuric, 50% | F |
| Sulfuric, 80% | P |
| Tannic | E |
| **Alkalines:** | |
| Ammonium Hydroxite | P |
| Calcium Hydroxite | P |
| Potassium Hydroxite | P |
| Sodium Hydroxite | P |

| **Key:** | |
|---|---|
| E- no attack | G- appreciably no attack |
| F- some attack, but useable in some instances | P- attacked, not reommended for use |
| N- rapidly attacked | *-and nitrate and sulfate |

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| **Chemical** (cont.) | |
|---|---|
| **Acid Salts:** | |
| Aluminum Sulfate | E |
| Ammonium Chloride* | E |
| Copper Chloride* | E |
| Iron Chloride* | E |
| Nickel Chloride* | E |
| Zinc Chloride* | E |
| **Alkaline Salts:** | |
| Barium Sulfide | E |
| Sodium Bicarbonate | E |
| Sodium Carbonate | E |
| Sodium Sulfate | E |
| Trisodium Phosphate | G |
| **Neutral Salts:** | |
| Calcium Chloride* | E |
| Magnesium Chloride* | E |
| Potassium Chloride* | E |
| Sodium Chloride* | E |
| **Solvents:** | |
| Alcohols | E |
| Aliphatic Hydrocarbons | G |
| Aromatic Hydrocarbons | G |
| Chlorinated Hydrocarbons | P |
| Ketones | F |
| Ethers | F |
| Esters | F |
| Gasoline | E |
| Carbon Tetrachloride | G |
| **Organics:** | |
| Aniline | P |
| Benzene | F |
| Formaldehyde, 37% | G |
| Phenol, 5% | G |
| Mineral Oils | E |
| Vegetable Oils | E |
| Chlorobenzene | G |

| **Key:** | |
|---|---|
| E- no attack | G- appreciably no attack |
| F- some attack, but useable in some instances | P- attacked, not reommended for use |
| N- rapidly attacked | *-and nitrate and sulfate |

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# GENERAL SPECIFICATIONS

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# Specifications

**Acceptable Manufacturers**

AMICO-Genesis

GMS 3000 Access Floor System

**General Description**

Provide manufacturer's standard heavy duty access floor system with modular field panels of size and construction indicated, that are interchangeable with other standard field panels, easily placed and removed without disturbing adjacent panels or understructure buy one person using a portable lifting device, free of exposed metal edges in installed position with floor covering in place.

Nominal Panel Size: 24 inches by 24 inches. Metric sizes available.

Fabrication Tolerances: Fabricate panels to the following tolerances with squareness tolerances expressed as the difference between diagonal measurements from corner to corner.

Size and Squareness: ±0.015 inch of the required size, with a square'-ness tolerance of ± 0.015 inch, unless tolerances are otherwise indicated for a specific panel type.

Flatness: ±0.020 inch on four sides and ±0.040 inch measure on a diagonal top.

**Performance Requirements**

Provide manufacturer's standard heavy duty access Floor panel capable of supporting a 3000 lbs. single caster rolling load. Tested per C.I.S.C.A. recommended procedures (1000 passes with a 6x1.5 wheel). Panel to have an ultimate load rating of 10,000 lbs. and a concentrated load rating of 3000 lbs. with a permanent set of 0.10 inch or less.

Wearing surface degradation to be not more than 50 mg loss after 1000 cycles with tabor wheel per ASTM-D 460. Surface hardness to be 2H per ASTM-D 3363. No laminate surface acceptable. Designed for clean room footwear.

**Understructure**

Provide manufacturer's standard heavy duty floor System understructure to meet the following minimum requirements.

Pedestals: Provide manufacturer's standard heavy duty pedestal assembly including base, column with provisions for height adjustment, and head (cap).

Base: Square base with not less than 36 inches of bearing area with pedestal tube designed for 10,000 lbs. axial loading and specified rolling loads.

Head: Of type designed to support understructure system indicated and capable of mechanically engaging stringer and corner lock screws simultaneously.

Nested Stringer System: Manufacturer's standard heavy duty stringer system, designed and fabricated to interlock with pedestal head to form a grid pattern with members fully engaging each edge of each floor panel. Having a pedestal under each corner of each floor panel.

Bolted Stringers: System of main and cross stringers in a 4 foot basket weave configuration connected to pedestals with threaded fasteners accessible from top of floor.

Provide vibration-proof mechanism for making and holding fine adjustments in height for leveling purposes over a range of not less than 2 inches. Include means of locking leveling mechanism at a selected height, which requires deliberate action to change height setting and prevents vibratory displacement.

Fabricate units of sufficient height to provide required under-floor clearance.

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# GMS SYSTEM OPTIONS

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**System Options**

The following options are available for most AMICO-Genesis Flooring Systems

■ Metric components

■ Corner lock feature

■ Seismic bracing

■ E.P.P.™ finish or other finish options

■ Slide dampers

■ Vision panels

■ Flush mount service boxes

**Accessories**

Color and Finishes: For exposed accessories available in more than one standard color or finish, provide color or finish complying with the following requirements.

■ Provided selections made by architect from manufacturer's full range of standard colors and finishes for the products and materials indicated.

Cutouts: Fabricate cutouts in floor panels to accommodate cable penetrations and service outlets. Provide reinforcement or additional support, if needed, to make panels with cutouts comply with standard performance requirements.

■ Fit cutouts with manufacturer's standard grommets.

■ Furnish removeable covers for grommets.

Service Outlets: Manufacturer's standard UL-listed and labeled assemblies, for recessed mounting flush with top of floor panels, designed and fabricated to accommodate power, communication, and signal cables, and complying with the following requirement.

■ Cover capable of supporting a 300 lbs. concentrated load.

Vertical Closures (Fascia): Where under floor cavity is not enclosed by an abutting wall, column, beam, or down turned slab. Provide manufacturer's standard metal closure plate with factory-applied finish.

Panel Lifting Devices: Manufacturer's appropriate portable lifting devices of the type and number required for lifting panels with floor covering provided.

■ Provide 2 lifting devices.

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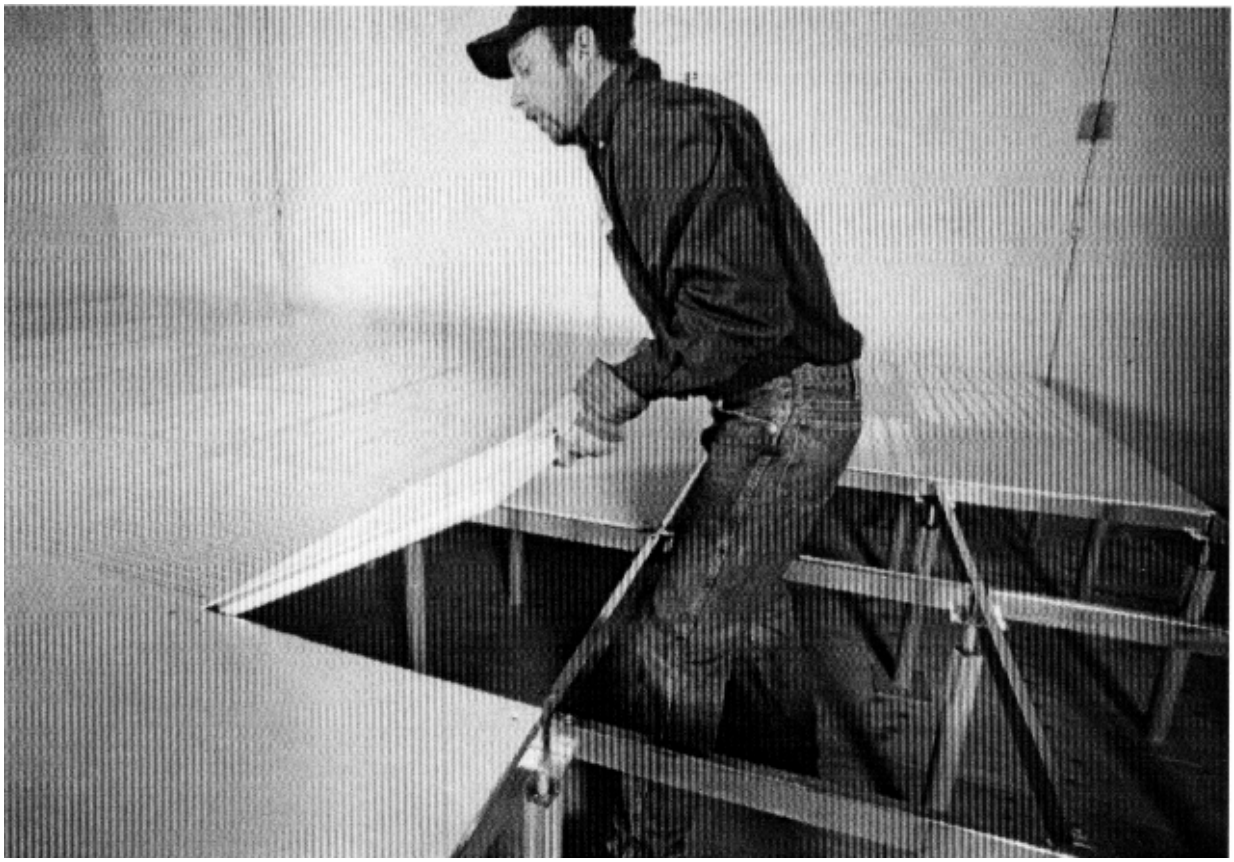
# Installation Instructions



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# Introduction

Proper installation of the GMS 3000 access floor system is a critical step to maximize the use of this product. Failure to install the GMS 3000 properly may have negative results and will void the warranty.

**Tools Required For Installation**

Laser (Calibrated)
Band saw 14” heavy duty
Band saw blades 14-18 tooth
Screw gun w/ torque adjustment
Screw gun #3 bits
Leveling bar 10’ aluminum w/ true straight edge
Cordless 3/8” drill
Extension cords
Saber saw
Saber saw bi-metal cutting blades
Chalk line
Dry line
GFI (Ground Fault Interrupter)
Measuring Tapes 100’ and 25’
Bubble level 2’ or larger
Pallet jacks
Hand tools
- Hammer
- Utility knife
- Screwdriver set
- Channel locks
- Pliers
- Allen wrenches
- Sot set
- Rivet gun
- Drill bits
- Pencil
- Markers
- Hole saw, various sizes
- Lumber crayons

**Safety Wear**

Safety glasses
Goggles
Ear plugs
Gloves
Steel toed work shoes
Hard hat

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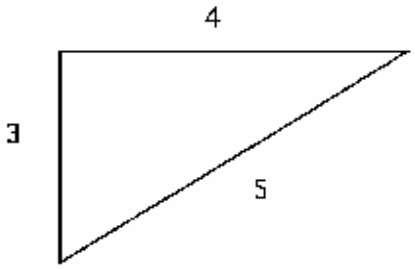
# Installation

## Establishing the start line

Check the walls for square using the 3,4,5 method



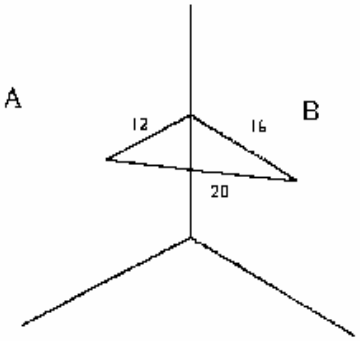

Using the Pythagorean theorem where the sum of the square of the true side equals the square of the hypotenuse, a right angle, square, can be determined.

$3^2 + 4^2 = 5^2$

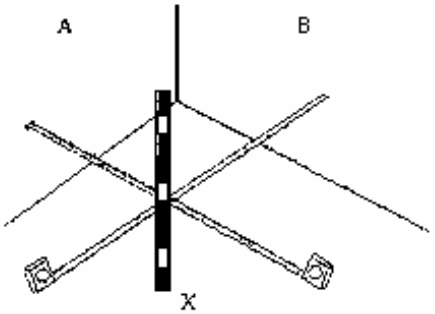
or

$9 + 16 = 25$

Measure along wall A in multiples of 3 ( ex. 3x4"= 12") make a mark. Measure along wall B in a multiple of 4 using the same factor (4") as on wall A (ex. 4x4"=16") make a mark. Measure between both marks. Your measurement should be 5x your common factor (4") or (5x4"=20"). If the measurement is more or less than 20", your wall is not square, or a perfect 90° corner. This determination of the squareness of the corner will be used later.




2. From the corner, determine the starting point by measuring 24" off both walls at Finished Floor Height (FFH). This is done to assure proper floor fit at the FFH.




Holding a tape measure at the FFH, measure out 24" from wall A & B. Using a level to intersect the tape at 24", determine a point on the floor directly below the intersection. This is point X.

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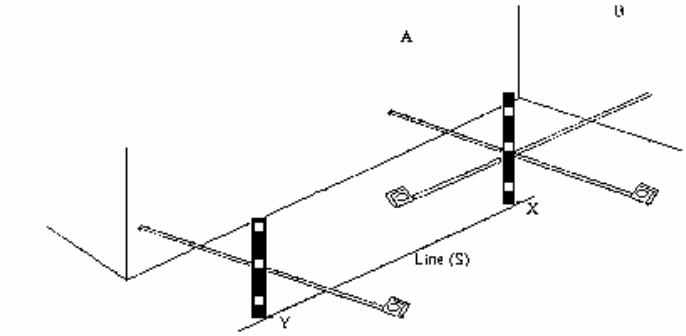
3. Repeat the same process at the other end of wall A to determine point Y, 24" out from the wall at the FFH.

Chalk a line between X and Y. This is the first starting line or S.

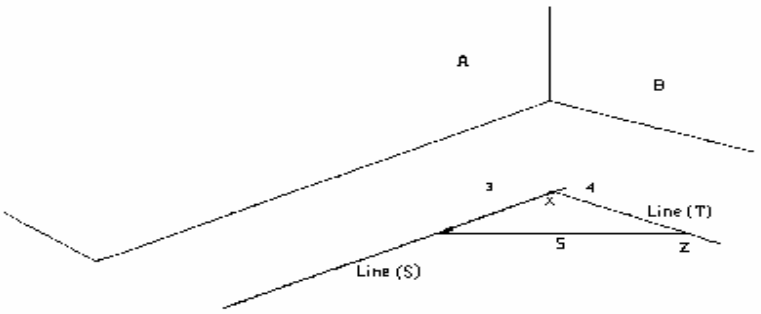
Note: Spray the chalk line with lacquer to prevent the line from being wiped out.




4. To determine the perpendicular line from line S at a 90° angle, use the 3,4,5 triangle method detailed in section 1 of these instructions.

Measure down wall B, parallel to the wall from point X in multiples of 4 using the same factor as used on line S. Strike an arch at that measurement from the point on line S, measure across to the arch drawn and strike another arch intersecting the first arch at a measurement in multiples of 5 using the same factor as used on line S. At the intersecting arches create a point marked Z.

Chalk a line between points X and Z. This line is T.



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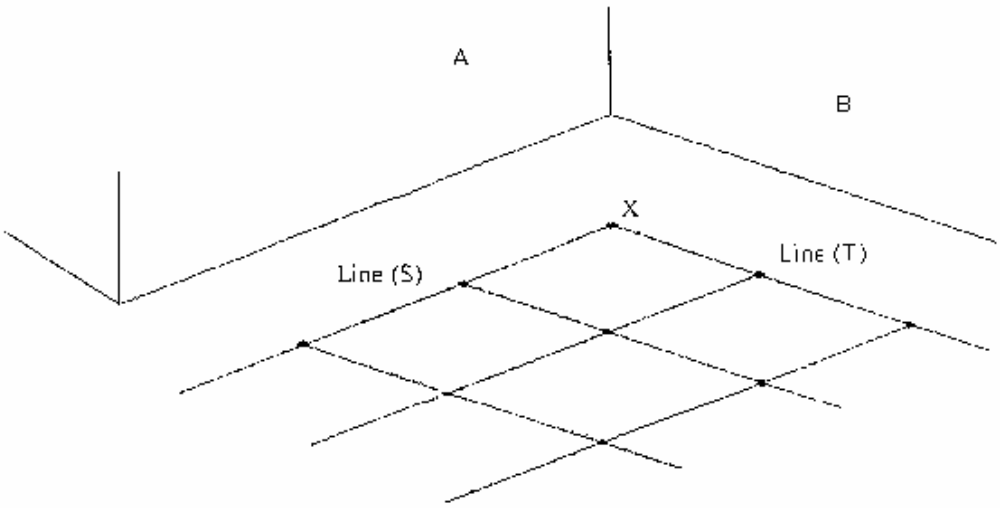
By establishing lines S and T you have created the starting lines for the installation of the floor. A (L) has been created at a perfectly square intersection.

## Shot Points/Laser Placement

From the original starting point, point (X), use a 100' tape. Mark every 10' along line S and T with a lumber crayon.

Project these points out into the floor. These will be your shot points for leveling your floor.




Place the floor laser in the middle of the room, strategically setting it to be able to hit all points in the room without moving the laser.

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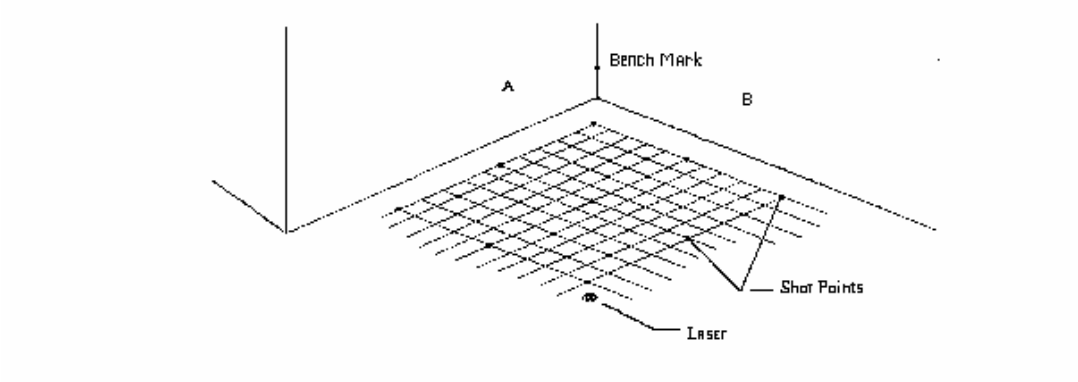
## Shot Point
## Pedestal Placement/Elevation

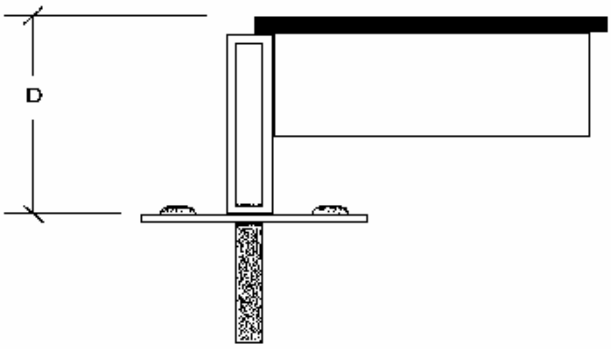
Spread the pedestal using these guide lines every 2'. Shoot the pedestals at each shot point with the laser and bring each pedestal head up to proper elevation.

**Note**

A benchmark should be established and agreed upon with the General Contractor using a building grade or door jamb etc.. Make sure you refer to the same benchmark to check the floor throughout the installation.




Proper elevation is determined by: Stinger height and panel lip thickness, or Dimension D.




Note: Measurement for pedestal shot points is made from the pedestal head flat plane, not from the protrusion.

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Check your pedestals to ensure they are perpendicular to or flat on the sub floor. This will allow for proper seeding of the panels.

All pedestals/understructure should then be snug holding the floor panels in their final resting spot.

Repeat this process along line T. At this time you should have built an (L) on the floor.

Dry line the (L) floor structure to ensure a straight grid line.

Using the 3, 4, 5 triangle method verify the (L) is at 90°. Make adjustments where necessary.

This (L) is now the template for the rest of the floor installation. Continue building (L's) inside each other until the floor installation is complete. Continue checking for square and FFH elevation with each (L) built.

**NOTE:** Most tolerances allow 1/16" variance in 10' and 1/8" overall for flatness of a raised floor. It is for this reason that the slightest adjustment should be made after leveling the floor.

Come back a insert perimeter cut panels to finish tying off the entire floor.

Walk on the finished floor to assure proper fitting of panels and quarter turn panels to try to correct rocking panels. (refer to rocking panel instructions).

## Notes

1. For larger jobs you may build two (L's) back to back and work out in both directions.
2. Consistently check the elevation of FFH to assure you are still at your benchmark.
3. Frequently check your laser to make sure it has not been touched or adjusted. Periodically re-establish the benchmark, FFH.
4. Newly installed panels should not be removed within 24 hours of the original installation. The weight and placement of the panels determine the pedestals final placement while the adhesive is curing. Floor occupation should be delayed for a minimum of 24 hours.
5. No more than 2 consecutive panels should be removed at any one time. And never when rolling loads are on the raised floor.
6. Always cut and install perimeter and column panels before allowing any trades on the floor. Install all perimeter and column panels with a 2' level to ensure a level perimeter.
7. No heavy equipment should be allowed on the access floor that exceeds the weight limit of the floor.
8. Three legged ladders should have the legs taped or padded and never allowed on the floor within 6' of the floor perimeter where panels are not yet installed.

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9. When handling panels never fully rely on a double cup lifter to continually hold the weight of the panel. Always reinsert the panels gently using hands not feet. This will keep the panel from being damaged and not void the warranty.

10. While working under the access floor all unattended holes should be coned off.

11. Perimeter panels should always be replaced in the same location in which they were removed.

## Rocking Panels

1. Using a double cup lifter, lift the panel and rotate it 90°. Place the panel partially over the opening holding it's new axis. Check for any debris on the stringer or pedestal heads. Clear any debris found and replace panel. Recheck for rocking.

2. Check for any tilting of pedestal bases.

3. Check for any tampering with the locking nut on the pedestal head.

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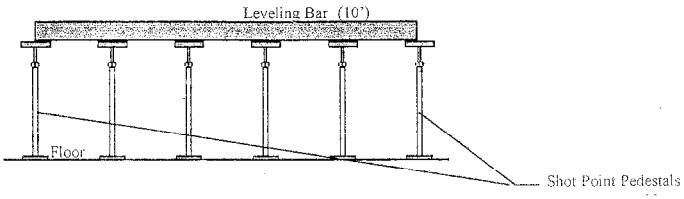
# Leveling Bar Elevations

Using the 10’ leveling bar, bring all field pedestals up to the shot point elevation




Lay the leveling bar on two shot point pedestals to the shot point elevation.

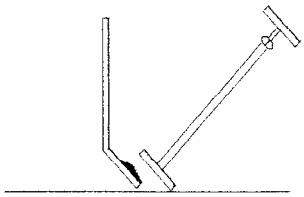
Turn each pedestal head nut to achieve level.

# Glue—Stock—String—Install Pedestals

Starting from the original starting point X, begin to adhere the pedestal bases. Never lift the pedestal. By lifting the pedestal base all placement and elevation marks are lost. Instead tip the base keeping full contact with the floor, to apply the adhesive.

Using a glue stick, place adhesive on the bottom of the pedestal.

Press pedestal base down firmly to ensure 100% adhesion.



Only glue as many pedestal bases as can be installed in one day of work and only install 2-4 rows at a time.

# Stringers

Install stringers in the same manner. Screw down the stringers as you go. Torque all stringer screws to 40 inch pounds.

Note: Care should be taken not to damage the stringers by using too much torque on the screws.

# Panels

Install two rows of panels at a time along line S. Insert the panels trying never to adjust the pedestal heads. Insert panels firmly against each other staying even with your chalk line on the sub floor.

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# PERFORMANCE REQUIREMENTS

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# AMICO-Genesis System Performance Requirements

Structural Performance: Provide manufacturer's custom access flooring system which complies with the following requirements for structural performance.

Floor Panels: Including those with cutouts, capable of supporting design loads of the type and magnitude indicated below:

Concentrated Loads: Loads of 3000 lbs. / 1350 kg, applied to one square inch located center and edge on the panel, with a top surface permanent set not to exceed 0.007".

Rolling Loads: Rolling loads of following magnitude, applied through a wheel or caster of material and size described below, with a combination of local and overall deformation not to exceed 0.040" measured across panel's 24" span and a permanent beam set not to exceed 0.045" after exposure to rolling load for indicated number of passes over the same path.

Rolling load of 3000 lbs. / 1350 kg, applied through alathane flat wheel with a 8" diameter having a 5" width for 5000 passes.

Impact Loads: Capable of withstanding a 300 lbs. / 135 kg impact load when dropped from 12" onto a one square inch area located anywhere on the panel with an indentation not to exceed .004".

Ultimate Loads: Capable of withstanding a 10,000 lbs. / 4500 kg load on a 1"² indenter, tested at center mid-span and panel center without catastrophic structural failure.

Uniformed Loads: Capable of withstanding a 20,000 lbs. / 9000 kg load with a deflection not to exceed .0665" per C.I.S.C.A. test procedures.

Pedestals: Pedestal assemblies shall be adhesively secured to the concrete without bolts capable of withstanding the following types of loads per pedestal, without panels or other supports in place.

Bending moment of 1000 inch-pounds.

Axial load of 10,000 lb.

Electrical Resistance System: Provide manufacturer's custom access flooring system, which when installed, has the following electrical resistance characteristics:

Static-Conductive Floor Covering Resistance: Range of 500,000 to 2.0 E+10 measured across surface of floor covering through panel to the understructure, by test method for conductive flooring in accordance w/ ESD testing procedures.

Panel to Understructure Resistance: Not more than 10 ohms.

Air Flow Performance: Provide manufacturer's custom perforated/slotted panels with 55% open area, which provide 1,497 cfm airflow per square foot of panel with 0.10" static water pressure drop through the floor. If required, slotted panels will accept a fully adjustable slide assembly.

**Testing**

Product test reports from qualified independent testing laboratory evidencing compliance of access flooring with performance requirements, based on comprehensive testing performed by qualified independent testing laboratory or by access flooring manufacturer and witnessed by a qualified independent testing laboratory. Test to be performed according to published C.I.S.C.A. procedures.

**Manufacturers**

Acceptable manufacturers:
AMICO-Genesis (800-215-9287)

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**Floor Panels Performance Requirements**

General: Provide manufacturer's custom modular field panels of size and construction indicated, that are interchangeable with other custom field panels, easily placed and removed without disturbing adjacent panels or understructure by one person using a portable lifting device, free of exposed metal edges in installed position with floor covering in place.

Nominal Panel Size: 24 inches by 24 inches (Panel system also available in metric).

Fabrication Tolerances: Fabricated panels to the following tolerances with squareness tolerances expressed as the differences between diagonal measurements from corner to corner.

Size and Squareness: ±0.015 inch of required size, with a squareness tolerance of ± 0.015 inch, unless tolerances are otherwise indicated for a specific panel type.

Flatness: ±0.020 inch measured on four sides and 0.040 measured on a diagonal on top.

Fused welded construction at a minimum 4 welds per 2" throughout entire panel surface, 600 welds minimum.

Conductive epoxy powder coating over entire panel and understructure.

**Floor Panel Covering Performance Requirements**

E.P.P. Conductive Surface (must meet the load and wheel criteria specified herein): Encapsulated Plating Process to encapsulate all surfaces of panel. Static-Conductive Floor Covering Resistance. Range 500,000 to 2.0 E+10 ohms measured across surface of floor covering through panel to the understructure, by test method for conductive flooring in accordance w/ ESD testing procedures.

Wearing surface degradation to be not more than 28 mg loss after 1000 cycles with tabor wheel per ASTM-D 460. Surface hardness to be 2H per ASTM-D 3363. No Laminate surfaces acceptable.

**Understructure**

General: Provide manufacturer's custom heavy duty floor system understructure which will accommodate steel columns supporting overhead crane systems with columns extending down through access floor system to bear on concrete floor system below.

Pedestals: Provide manufacturer's custom heavy duty pedestal assembly including base, column with provisions for height adjustment, and head (cap).

Base: Square or circular base with not less than 36 square inches of bearing area with 1 3/8" tube pedestal designed for 10,000 lbs. axial loading and specified rolling loads.

Provide vibration-proof mechanism for making and holding fine adjustments in height for leveling purposes over a range of not less than 2 inches. Including means of locking leveling mechanism at a selected height, which requires deliberate action to change height setting and prevents vibratory displacement.

Fabricate units of sufficient height to provide required under floor clearance. Concrete sub floor will not be perfectly level, it will be sloped for drainage. Slope will not exceed 1/8" per foot.

Head: Of type designed to support understructure system indicated.

Stringer System: Manufacturer's custom stringer system, designed and fabricated to interlock with pedestal head and to form a grid pattern with members under each edge of each floor panel and with a pedestal under each corner of each floor panel.

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Bolted Stringers: System of main and cross stringers connected to pedestal with fasteners accessible from above.

Provide stringers with support each edge of each panel and will bear 2500 lbs. load on 1" indenter at center of stringer with .010 set or less.

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# TECHNICAL SPECIFICATIONS AND DETAILS

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# SECTION 13062 - HIGH STRENGTH STEEL ACCESS FLOORING

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specifications, apply to this Section.

### 1.2 SUMMARY

This Section includes a custom designed access flooring system including:

A. Supporting structure designs to bear on pre-cast concrete structural system and provide bearing for regular spaced.

B. Gravity held perforated and solid panels.

C. Understructure with bolted stringers.

D. Design of complete system to conform to performance requirements is the responsibility of the manufacturer.

Related Sections: The following sections contain requirements that relate to this section.

Division 16 Section “Grounding” for connection to ground of access floor understructure.

### 1.3 DEFINITIONS

Access flooring is a complete portable rigid assembly of modular floor panels on an elevated support system (understructure), forming an accessible under floor cavity to accommodate electrical communication services and mechanical HVAC ventilation.

### 1.4 SYSTEM PERFORMANCE REQUIREMENTS

Structural Performance: Provide manufacturer’s custom access flooring system which complies with the following minimum requirements for structural performance.

A. Floor panels, including those with cutout, capable of supporting design loads of type and magnitude indicated below.

1. Concentrated load of 3000 lbs./1350 kg applied to a square inch located center and edge on the panel, with a top surface permanent set not to exceed 0.007”.

2. Rolling loads of the following magnitude, applied to panels through a wheel or caster of material and size described below; with a combination of local and over all deformation not to exceed 0.040” measured across panel’s 24” span and a permanent beam set not to exceed 0.045” after exposure to rolling load indicated number of passes over the same path:

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a. Rolling load of 3000 lbs./1350 kg applied through alathane flat wheel with an 8" diameter having a 5" width for 5000 passes.

3. Impact Loads: Capable of withstanding a 300 lbs./135 kg impact load when dropped from 12" onto a one square inch area located anywhere on the panel with an indentation not to exceed 0.004".

4. Ultimate Loads: Capable of withstanding a 10,000 lbs./4500 kg load on a 1" indenter, tested at center edge, mid-span, and panel center without catastrophic structural failure.

5. Uniform Loads: Capable of withstanding a 20,000 lbs./9000 kg load with a deflection not to exceed 0.0665" per C.I.S.C.A. test procedures.

B. Pedestals: Pedestal assemblies shall be adhesively secured to the concrete without bolts capable of withstanding the following types of loads per pedestal, without panels or other supports in place.

1. Bending moment of 1000 inch pounds.

2. Axial load of 10,000 lbs.

C. Electrical Resistance of System: Provide manufacturer's custom access flooring system, which when installed, has the following electrical resistance characteristics:

1. Static-Conductive Floor Covering Resistance: Static-Conductive Floor Covering Resistance. Range 500,000 to 2.0 E+10 ohms measured across surface of floor covering through panel to the understructure, by test method for conductive flooring in accordance w/ ESD testing procedures.

2. Panel to Understructure Resistance: Not more than 10 ohms.

Air Flow Performance: Provide manufacturer's custom perforated/slotted panels with 40%-64% open area, which will provide, 818 cfm-1497 cfm air flow per square foot of panel with static water pressure drop through the floor. If required, slotted panels will accept a fully adjustable slide damper assembly.

Seismic Zone 4 certified with 2500 lbs. live load.

**1.5 SUBMITTALS**

General: Submit the following in accordance with Condition of Contract and Division 1 Specification Sections.

A. Product data for each type of access flooring specified.

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B. Shop drawings indicating complete layout of access flooring based on field verified dimensions, include dimensional relationships to adjoined work installation tolerances. Include details, with descriptive notes indicating materials, finishes, fasteners, typical and special edge conditions, accessories, understructure, and other data to permit a full evaluation of the entire access flooring system. Provide load calculations prepared and sealed by a professional engineer.

C. Samples for initial selection purposes in form of manufacturer's color charts consisting of actual units or sections of units showing full range of colors, textures, and patterns available for each type of floor covering and exposed finish.

D. Samples for verification purposes in full size units of each type of floor covering and exposed finish.

1. In addition submit one complete full sized floor panel, pedestal, and grid unit.

E. Product test reports from qualified independent testing laboratory evidencing compliance of access flooring with performance requirements, based on comprehensive testing performed by qualified independent testing laboratory or by access flooring manufacturer and witnessed by qualified independent testing laboratory. Test to be performed according to published C.I.S.C.A. procedures.

**1.6 QUALITY ASSURANCE**

A. Installer Qualifications: Engage an experienced installer who is approved by the access flooring manufacturer for installation of the types of access flooring required for this project.

B. Single Source Responsibility: Obtain access flooring system from one source, from a single manufacturer.

C. Coordination of Work: Coordinate location of mechanical and electrical work in under floor cavity to prevent interference with access pedestals.

**1.7 DELIVERY-STORAGE-HANDLING**

Deliver access flooring components in original, unopened packages, clearly labeled with manufacturer's name and item description.

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**1.8 PROJECT CONDITIONS**

A. Environment Conditions: Do not proceed with installation of access flooring until installation area is enclosed and has an ambient temperature of between 40° F (4.4°C) and 90° F (32.2C), and a relative humidity of not more than 70 percent.

B. Field Measurements: Check actual location of walls and other construction to which access flooring must fit, by accurate field measurements before preparation of shop drawings; show re corded measurements on final shop drawings. Coordinate fabrication schedule with construction to avoid delay of work.

**1.9 SEQUENCING AND SCHEDULING**

A. Mark pedestal locations on concrete sub-floor so that mechanical and electrical work can take place without interfering with pedestal.

B. Do not proceed with installation of access flooring until after substantial completion of other performable construction within affected spaces.

**PART 2 - PRODUCTS**

**2.1 MANUFACTURERS**

Acceptable Manufacturers:

A. AMICO-Genesis (800-215-9287)

**2.2 FLOOR PANELS PERFORMANCE REQUIREMENTS**

General: Provide manufacturer's custom modular field panels of size and construction indicated, that are Interchangeable with other custom field panels, easily placed and removed without disturbing adjacent panels or understructure by one person using a portable lifting device, free of exposed metal edges in installed position with floor covering in place.

A. Nominal Panel Size: 24" x 24" (Panel system also available in metric).

B. Fabrication Tolerances: Fabricate panels to the following tolerances with squareness tolerances expressed as the difference between diagonal measurements from corner to corner.

1. Size and Squareness: ±0.015 inch of the required size, with a squareness tolerance of ± 0.015 inch, unless tolerances are otherwise indicated for a specific panel type.

2. Flatness: ± 0.20 inch on four sides and 0.040 measured on a diagonal on top of panel.

C. Fuse Welded Construction: Welded at a minimum 4 welds per 2"² through out entire panel surface, 600 welds minimum.

D. Conductive Epoxy Powder Coating: Finish over entire panel and understructure.

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## 2.3 PANEL COVERING PERFORMANCE REQUIREMENTS

E. P.P Conductive Surface (must meet the load and wheel criteria specified herein): Encapsulated Plating Process to encapsulate all surfaces of panel. Static-Conductive Floor Covering Resistance. Range 500,000 to 2.0 E+10 ohms measured across surface of floor covering through panel to the understructure, by test method for conductive flooring in accordance w/ ESD testing procedures. Wear ing surface degradation to be not more than 28 mg. Loss after 1000 cycles with tabor wheel per ASTM—D 460. Surface hardness to be 2H per ASTM—D 3363. No laminate surfaces acceptable.

## 2.4 UNDERSTRUCTURE

A. General: Provide manufacturer's custom heavy duty floor system understructure which will accommodate steel columns supporting overhead crane systems with columns extending down through access floor system to bear on concrete floor system below.

B. Pedestals: Provide manufacturer's custom heavy duty pedestal assembly including base, column with provisions for height adjustment, and head (cap).

1. Base: Square or circular base with not less than 36 sq. inches of bearing area with 1 3/8" tube pedestal designed for 10,000 lbs. Axial loading and specified rolling loads.

2. Provide vibration-proof mechanism for making and holding fine adjustments in height for leveling purposes over a range of not less than 2 inches. Include means of locking leveling mechanism at a selected height, which requires deliberate action to change height setting and prevents vibratory displacement.

3. Fabricate units of sufficient height to provide required under floor clearance. Concrete sub-floor will not be perfectly level, it will be sloped to drain. Slope will not exceed 1/18" per foot.

4. Head: Of type designed to support understructure system indicated.

C. Stringer System: Manufacturer's custom stringer system, designed and fabricated to interlock with pedestal head and to form a grid pattern with members under each edge of each floor panel and with a pedestal under each corner of each floor panel.

1. Bolted Stringers: System of main and cross stringers connected to pedestal with threaded fasteners accessible form above.

a. Provide stringers which support each edge of each panel and will bear 2500 lbs. Load on 1" indenter at center of stringer with .010 set or less.

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## 2.5 ACCESSORIES

A. Colors and Finishes: For exposed accessories available in more than one standard color or finish, provide color or finish complying with the following requirements:

1. Provide selections made by Architect from manufacturer's full range of standard colors and finishes for products and materials indicated.

B. Cutouts: Fabricate cutouts in floor panels to accommodate cable penetrations and service outlets. Provide reinforcement or additional support, if needed, to make panels with cutouts comply with standard performance requirements.

1. Fit cutouts with manufacturer's standard grommets.

a. Furnish removable covers for grommets

C. Service Outlets: Manufacturer's standard UL-Listed and Labeled assemblies for recessed mounting flush with top of floor panels, designed and fabricated to accommodate power, communication, and signal cables, and complying with following requirements:

1. Structural Performance: Cover capable of supporting a 300 lbs. concentrated load.

D. Vertical Closures (Fascia): Where under floor cavity is not enclosed by abutting walls, columns, beams, or down turned slabs, provide manufacturer's standard metal closure plates with factory-applied finish.

E. Panel Lifting Devices: Manufacturer's appropriate portable lifting devices of type and number required for lifting panels with floor covering provided.

1. Provide 2 lifting devices.

# PART 3—EXECUTION

## 3.1 PREPARATION

Locate each pedestal and complete any necessary sub-floor preparation, and vacuum clean and wipe the sub-floor of all dust, dirt and construction debris before starting installation.

## 3.2 INSTALLATION

A. Install access floor system and accessories according to manufacturer's published installation procedures and under supervision of the access flooring manufacturer's authorized representative to ensure rigid, firm installation free of vibration, rocking, rattles, squeaks and other unacceptable performance to meet system performance requirements.

B. Set pedestals in adhesive as recommended by the access flooring manufacturer to provide full bearing of the pedestal base on the sub-floor

C. Layout floor panel installation to keep the number of cut panels at the floor perimeter to a minimum. Scribe panel assemblies at perimeter to provide a close fit with no voids greater than 1/8 inch where panels abut vertical surfaces.

D. Secure grid members to pedestal heads in accordance with access flooring manufacturer's instructions.

E. Accurately scribe and fit vertical closures to sub-floor and adjacent finish floor. Set in mastic and seal, if required, for plenum effect.

F. Thoroughly clean up dust, dirt, and construction debris caused by floor installation, including vacuuming the sub-floor area, and wet wiping as installation of floor panels proceeds. Extend cleaning under installed panels as far as possible.

G. Cutting and trimming or other dirt-or-debris-producing operations will not be permitted in the rooms where the floor is being installed.

H. Perform cutting and trimming or other dirt-or-debris-producing operations as remotely as possible from installation area and in manner to prevent contamination of sub-floor surfaces under sections of access floor which already have been installed.

1. Level installed access floor to within 0.10 inch of true level over the entire area and within 0.0625 inch in any 10-foot distance.

## 3.3 TESTING, ADJUSTING, CLEANING AND PROTECTION

A. After completion of installation, provide test data verifying that the installed system meets the System Performance Requirements.

B. After completion of installation, vacuum clean the entire floor surface and cover with continuous sheets of reinforced paper or plastic. Maintain and repair damages to protective covering until time of Substantial Completion.

C. Replace access floor panels which are chapped, broken, stained, scratched otherwise damaged, or do not conform to specified requirements.

**END OF SECTION 13062**

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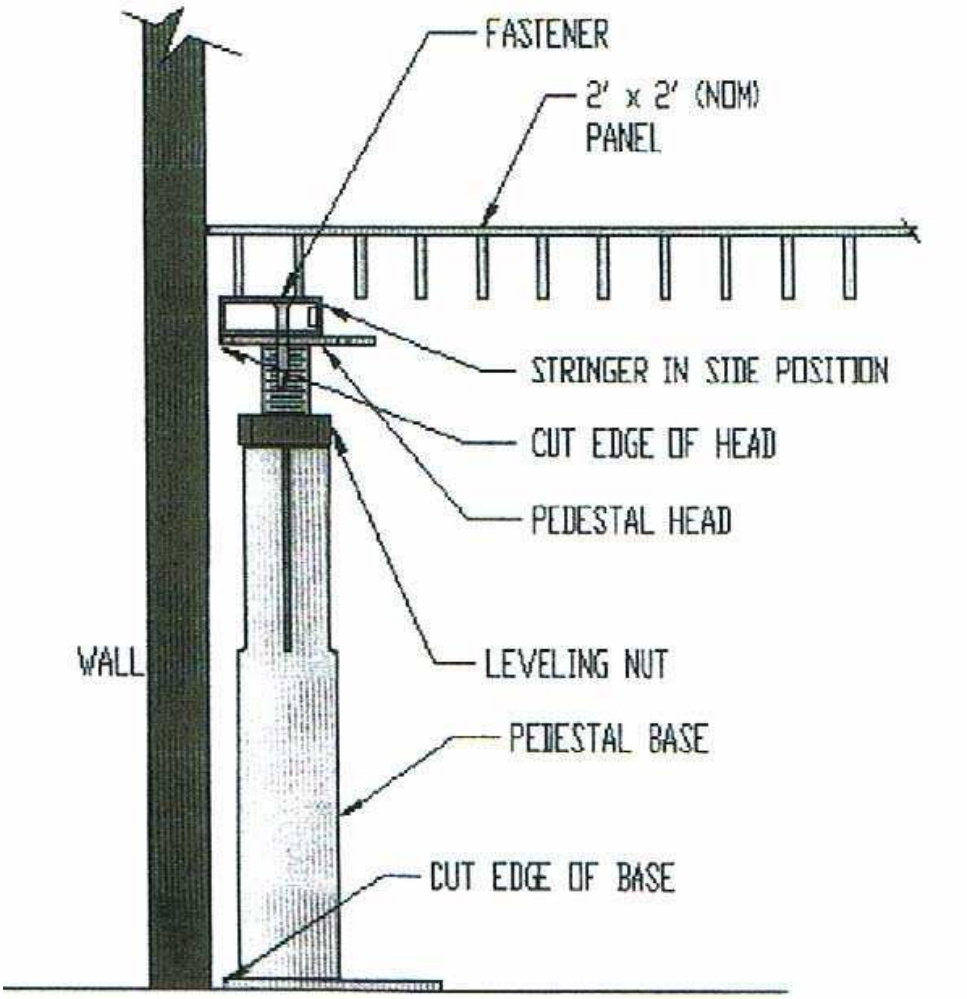


TYPICAL EDGE DETAIL

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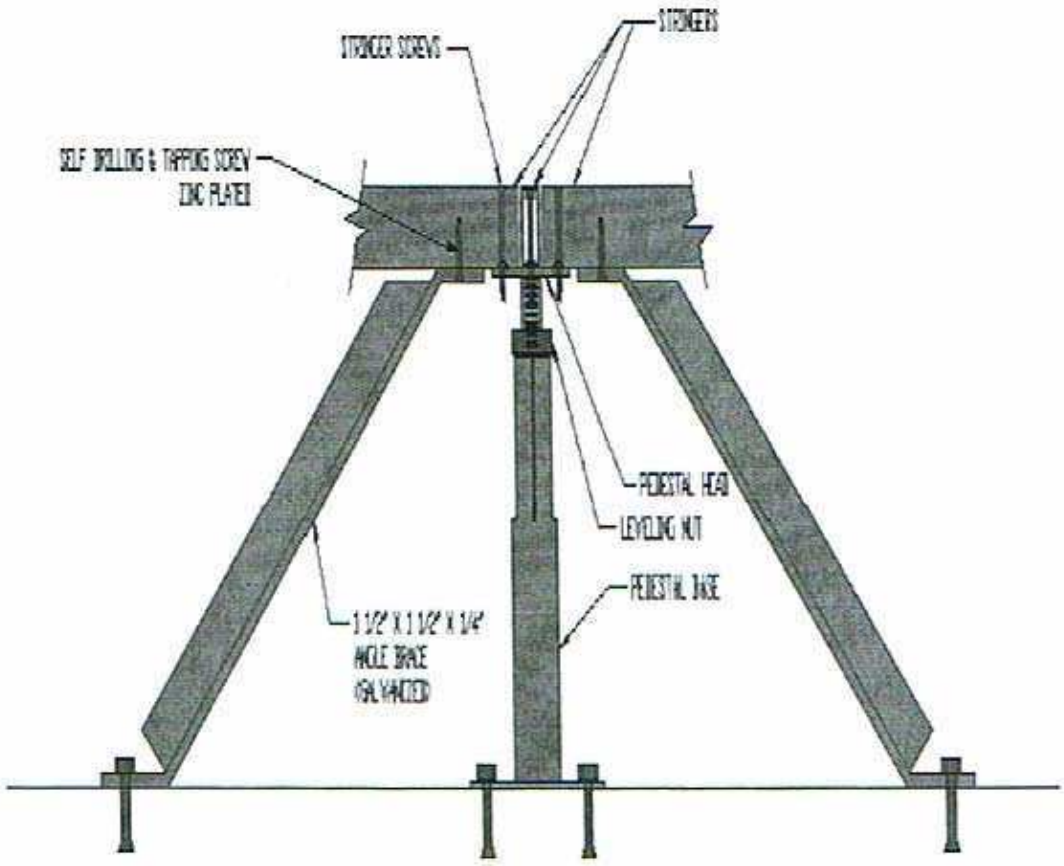


RAISED FLOOR - LATERAL BRACING

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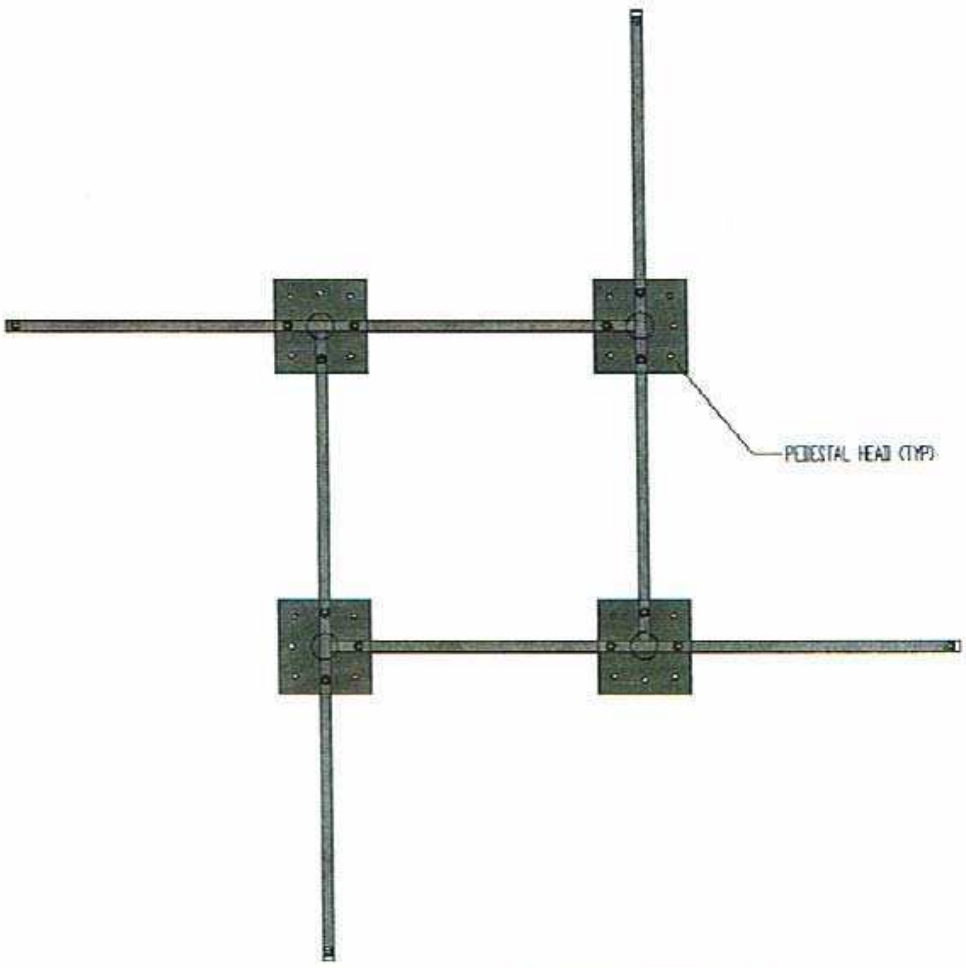


TYP. STRINGER LAYOUT

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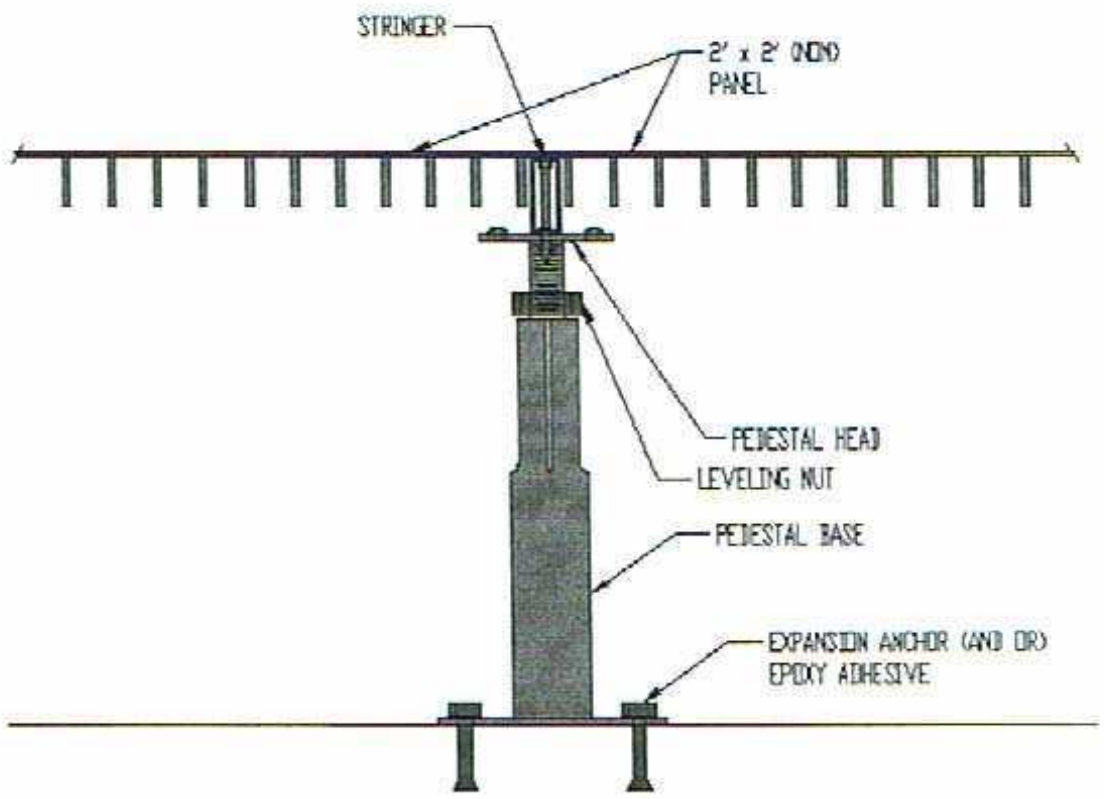


RAISED FLOOR - ASSEMBLY SECTION

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# MAINTENANCE INSTRUCTIONS

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# Maintenance and Cleaning Procedures

The installation area should be free of other trades and their materials. All overhead work should be complete before installing the access floor. This will prevent other trades from using the access floor as a work platform thus preventing possible permanent damage to the floor panels and their finish.

No personnel, other than experienced access floor installers, should be allowed on the floor until the following conditions have been met.

The perimeter is installed on at least three sides of the room.

The pedestal adhesive has cured for a minimum of two days

The access floor has been inspected and have received written acceptance by the general contractor or end user.

Do not drop or kick panels into position. Excessive force must not be used when replacing the panels.

Panels that have been cut for the perimeter walls shall not be removed. If removal of these panels are necessary, the panel or panels must be replaced back into the exact location from which they were removed. Each perimeter panel has been measured and cut for that exact location.

Prior to any rolling materials, equipment, or gang boxes moving across the installed access floor or it's ramps a 1/4" tempered masonite or 1/2" plywood must be laid as a pathway. This will evenly distribute the weight of the equipment and prevent marring and gouging of the floor panel covering. When rolling equipment across the access floor, all panels must be installed and seated in position to avoid misalignment of the floor when reinstalled.

Never flood panels with water or a cleaning agent. Laminate finishes require little maintenance and can be easily cleaned by dry mopping and periodically damp mopping with a mild detergent. Use of a strong cleaning agent, waxing, buffing, or refinishing is not recommended. Use of these agents may damage and block the conductivity feature of the access floor. Contact specific laminate manufacturer for their recommended cleaning materials.

| **Note:** |
| --- |
| The maintenance of an access floor requires a thorough understanding and control of the building space receiving the access floor. |

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# WARRANTY

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# WARRANTY

**Project:_____ Amico-Genesis Job #:_____**

**Customer:_____ Effective Date:_____**

The AMICO-GENESIS (Seller) ACCESS FLOOR SYSTEM 1-year warranty is as follows:

1. All goods sold by Seller, with the exception of goods sold but not manufactured by Seller, are warranted to be free from defects in material and factory workmanship. Goods sold but not manufactured by Seller are warranted by Seller only to the extent that the original manufacturers thereof shall provide remedy under such manufacturers warranty for such goods.

2. The foregoing warranty is non-assignable and in lieu of and EXCLUDES all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including but not limited to any implied warranties or merchantability or fitness.

3. Seller shall not be liable for incidental or consequential losses, damages, or expenses, directly or indirectly arising from the sale, handling, or use of the goods, or from any other cause relating hereto, and the Seller's liability in any case is expressly limited to the replacement (in the form originally shipped) of goods not complying with this agreement, or at Seller's election, to the repayment of, or crediting Buyer with, an amount equal to the purchase price of such goods, whether such claims are for breach of warranty or negligence.

   The expressly limits Seller's liability for the term of this Warranty to Buyer's purchase price of goods.

4. Any claimed defect in material or factory workmanship shall be deemed waived by buyer unless submitted to Seller in writing within Twelve (12) months of receipt of material.

5. Seller will laminate floor covering, including but not limited to, carpets and high pressure laminates selected by Buyer from Seller's current published parts and price list, to Access Floor panels. Seller, however, will not be responsible for the de-lamination of floor coverings from Access Floor panels due to excessive wear, improper maintenance, lack of proper handling, or storage.

6. Seller will not be responsible for the Buyer's cost to do any repair work unless Buyer receives written authorization from Seller to perform such work. It is the responsibility of the Buyer to inspect all Access Flooring products and notify Seller of any defects prior to installation. Seller shall replace or repair, at its sole discretion, any Access Floor products installed within the United States determined by the Seller to be defective.

   The Warranty Term specifically excludes Seller from the cost of freight or field labor. All claimed defective materials shall be returned to the factory, freight prepaid by Buyer. Repaired or replacement parts will be returned to Buyer freight collect F. O. B. factory. Any labor costs involving the Access Floors or costs of removing or replacing other work will not be covered by this Warranty.