

## Facility Operations

### Carpentry Construction Standards

#### 1. **Locks / Hardware** – The 626 finish is the most prevalent on campus

- **Lever handle cylindrical lockset**

Best Access System 9 K series by Stanley Security

Solutions Office 93K7AB14D (S3 626)

Classroom 93K7R14D (S3 626)

**(Above function may change by crisis management recommendation)**

Storeroom 93K7D14D (S3 626)

Mechanical 93K7D14D (S3 626) TLO

Passage 93KON14D (S3 626)

- **Lever handle mortise lockset**

Best Access System 45H series by Stanley Security

Solutions Office 45H7A14J (626) (RH, LH, RHR, LHR)

Classroom 45H7R14J (626) (RH, LH, RHR, LHR)

**(Above function may change by crisis management recommendation)**

Storeroom 45H7D14J (626) (RH, LH, RHR, LHR)

Mechanical 45H7D14J (626) (RH, LH, RHR, LHR) TLO

Passage 45HON14J (626) (RH, LH, RHR, LHR)

- **Cylinders**

Best Access System by Stanley Security

Solutions Rim 1E72 S2 (RP) (626)

Mortise 1E74 22 (C4) (RP3) (626)

Special Ring for Exterior Doors 1ER8 ( \_ \_ ) (626)

Electronic, Card or Keypad systems will need to be assessed on an individual basis.

## 2. Cores and Keys

- **Projects with less than 40 cores:**

One (1) un-combinated core and two (2) blank keys per lock or cylinder, keyway to be specified by Pittsburg State University Facility Operations.

The temporary construction cores and keys will be provided and installed by PSU Facility Operations. PSU Facility Operations will remove construction cores upon completion of the project. PSU Facility Operations will combinate the supplied blank cores and cut the supplied keys to work with our existing Best Master Key System.

Please note that construction cores not returned to PSU Facility Operations will be charged to the contractor, this includes the black plastic temporary cores.

- **Projects with more than 40 cores:**

Provide one combinated permanent core and two permanent keys per lock or cylinder. Provide two keys for each sub-master, four keys for each master and one control key for each system. The keyway and master key system is to be specified by PSU Facility Operations.

Master key system, computer and or software and key box will be determined depending on the scope of the project.

The construction cores and keys are to be provided with locks from Best, the contractor is to turn over one construction key and control key to PSU Facility Operations upon receipt from the hardware supplier. PSU Facility Operations will remove construction cores at completion of job and receipt of the permanent cores and keys and then return the construction cores and keys to Best.

Please note that construction cores and keys not turned over to PSU will be charged to the contractor, this includes the black plastic temporary cores.

### 3. Hinges

4½ x 4½ ball bearing, five knuckle, full-mortise template butt hinges.

Exterior and secure doors require the use of the NRP option (non-removable pin).

Use three hinges per door up to and including 7 ½ feet and use one additional hinge for each additional 2 ½ feet or fraction thereof.

Stanley FBB 179 for standard duty applications

Stanley FBB 168 for heavy-duty applications

Hager, McKinney and Bommer are accepted as equals.

Continuous hinges are acceptable in certain applications, such as retro fitting doors into existing jambs and will need to be assessed on an individual application basis.

available, outside lighting shall be controlled by a single photo eye and or a time clock. (Do not use individual photo eyes mounted in each fixture).

### 4. Door Closers

- **Surface Mounted – Standard Duty**

Install all closers to doors with through bolt mounting.

Notron 7500 series

LCN 4010 series

- **Surface Mounted – Light Duty (not to be used on fire rated assemblies)**

Norton 1601 BF series

LCN 1260 series

### 5. Automatic Door Operators

- **Exit Devices**

Von Duprin 98 / 99 series, hex key dogging

Standard Lever design #17, lever trim 996L

## 6. Doors and Frames

All exterior or ground contact hollow metal frames to be galvanized. All exterior hollow metal doors shall be galvanized and insulated.

Hollow Metal Frames – Steelcraft, F16-4 series flush frames Hollow Metal Doors – Steelcraft, L18 series flush door

Wood Doors – Structural Composite Lumber (SCL) or Laminated strand Lumber (LSL) core, wood veneer face and ½' minimum stile matching face veneer.

Aluminum – Kawneer, standard anodized aluminum finish, butt hinges on doors

## 7. Ceiling Tile and Grid

Armstrong – Preferred Tile (PSU standard stock)

769 Cortega 24 x 48  
823 Cortega 24 x 48 fire rated  
770 Cortega 24 x 24  
824 Cortega 24 x 24 fire rated  
704 Cortega 24 x 24 angled tegular

Armstrong – Acceptable Tile (limited stock)

734 Designer 24 x 48  
578 Cirrus 24 x 24 angled tegular  
303 Tundra 24 x 24 beveled tegular

Armstrong Gridwork

Main	7300DWH
4' tee	XL7348WH
2' tee	XL7324WH
Angle	7800DWH

## 8. Floor Tile

Mannington Commercial 12" x 12" x 1/8"  
VCT Essentials and Designer Essentials  
(111 Dalmation and 137 Sandrift are PSU stock colors)

Armstrong 12" x 12" x 1/8"  
Imperial Texture  
(51908 Pewter, 51904 Sterling, or Owner's Choice)

## 9. Cove Base

Johnsonite 1/8" x 4" 48" standard toe rubber  
(29 Moon Rock or Owner's Choice)

## 10. Carpet

*Some buildings may vary and will require prior approval.*

Shaw, Philadelphia Planks, Raw Beauty 54843, Color: 00510 Daring, Grayer  
Shaw, Philadelphia Planks, Raw Beauty 54843, Color: 00710 Keen, Browner  
Shaw, JJ Flooring Square, Elemental 7683/2639, Color: 2639 Galvanized, Grayer  
Shaw, JJ Flooring Square, Elemental 7683/2639, Color: 2634 Hutch, Browner  
Craftswood Modular Tile in Ashalar Pattern

## 11. Plastic Laminate

Pionite brand.

## 12. Concrete

All concrete shall be plant mixed and delivered to the job site. The concrete shall be a minimal compressive strength of 4,000 psi at 28 days, six (6) sack mix with no-fly ash allowed and 5% air entrainment. The quantity of water added to the mix shall be the minimum required for proper placement and shall be no more than seven (7) gallons per sack of cement. The slump shall be a maximum of 4"; minimum of 3".

All concrete shall have a steel trowel and medium broom finish as approved by owner. Control joints shall be 1" deep hand tooled, sawing of control joints will not be allowed, and shall be used in a standard configuration not to exceed ten (10) feet and to match existing and adjoining areas. Expansion joints shall be done with asphaltic type expansion joints at approximately fifty (50) feet intervals, and/or at walk junctions, intersections, at the top or bottom of steps and where concrete abuts curbs, buildings platforms, sidewalks or other fixed structures.

### **13. Sidewalks and Landings**

The concrete sidewalks shall be of one construction 5 ½" minimal concrete thickness on a minimum of 4" of compacted AB-3 rock base. Provide approximately, but no more than ¼" per foot of crown or cross slope in the direction of drainage and/or match the existing surfaces that the new sidewalk ties to. Reinforcement shall consist of 6x6-10/10 welded wire mesh or 3/8" rebar on 24" centers both directions placed 2" above the bottom of the sidewalk slab. Doweling, when required, shall consist of a typical installation of one ½" rebar placed 6" in from each edge of the slab, with a minimum of one dowel in the center or at no more than 30" centers if the slab is over 6 feet wide.

### **14. Driveway Approaches**

The driveway approach or aprons which consist of areas normally traveled by vehicle traffic, shall be of one construction 7 ¼" minimal concrete thickness on a minimum of 4" of compacted AB-3 rock base. Reinforcement shall consist ½" rebar on 16" centers both directions placed 3" above the bottom of the slab. Doweling, when required, shall consist of a typical installation of one ½" rebar placed 6" in from each edge of the slab, with a minimum of one dowel in the center or at no more than 30" centers if the slab is over 6 feet wide.

### **15. Curbs**

Curbs shall be of one construction to match the size and shape of the abutting curbs the base shall be a minimum of 4" compacted AB-3 rock. Reinforcement shall consist of a minimum of 2 pieces of properly spaced and supported ½" rebar placed in the length of the curb and supported at least every 24".

### **16. Primary Electric Lines**

Primary electric lines shall have a minimum of 3" red dyed added 3,000 PSI at 28 days concrete located approximately 3" above the conduit padded by sand or other acceptable material, please refer to the electrical and our energy suppliers' specifications for more details. Painting of standard concrete after installation is not acceptable.

## 17. Access Doors

All access doors shall be a minimum of 30" x 30" and located in such a way as to be considered easily accessible.

## 18. Roof Access

All roofs shall be fully accessible without the need to utilize portable ladders or other equipment.

## 19. Extra Material, Manuals, Wrenches, Keys

Deliver to the Facility Operations a minimum of one full unopened unit, or five percent, of each type and color of ceiling tile, floor tile, base, ceramic tile, carpet tiles, etc. that is used on this project with manufacturer's name and item number intact on the carton. Clearly mark the cartons with building or project name and date of completion of the project.

Deliver to Facility Operations a manual containing the manufacturer, part number and color of all the above items including any wrenches, installation templates and maintenance instructions.

Deliver to the Facility Operations Carpentry Department at least five (5) full sets of keys, clearly marked, to elevators, access panels, light switches, panel boxes, fire extinguisher cabinets, control cabinets, panel boxes, toilet room fixtures and any other item that is not on the Best Master Key System.