



SCI-FAB Product Specifications

Casework – Section 1

Part 1 – General

1.1 SCOPE OF WORK

Includes all factory fabricated stainless steel casework as required by the project drawings.

1.2 TYPICAL INCLUSIONS

- A. Base and wall units.
- B. Tall storage units.
- C. Recessed units.
- D. Pass through units.
- E. Knee space rails.
- F. Miscellaneous fillers and scribes.

1.3 TYPICAL EXCLUSIONS

- A. Vinyl or rubber base.
- B. Wall framing and in-wall backing for anchorage support.
- C. Electrical.
- D. Mechanical.
- E. Work not directly associated with the stainless steel casework.

1.4 MATERIALS

- A. Cabinetry fabricated from T304 stainless steel sheet, (T316 stainless steel available at additional cost) conforming to ASTM A240. All exposed surfaces polished to a No. 4 brushed satin finish. (150/180 grit)
- B. Glass for glazed hinged and sliding doors shall be ¼" thick clear tempered glass.

1.5 PERFORMANCE REQUIREMENTS

Casework and components shall withstand the following minimum loads without damage to components or casework operations:

- A. Base cabinets shall support a minimum of 500 lbs. per lineal foot suspended across cabinet ends.
- B. Drawers in a cabinet shall support a minimum of 100 lbs.
- C. Utility tables (with 4 legs) shall support a minimum of 300 lbs.
- D. Hanging wall cases shall support a minimum of 300 lbs.
- E. Shelves of base units, wall cases, and tall cases shall support a minimum of 100 lbs.

1.6 SHOP DRAWINGS

- A. Submit complete shop drawings showing all casework, elevations, plans, cross sections and installation details.
- B. When locks are specified a complete keying schedule will be submitted with proposed keying for review by Architect and Owner.

1.7 SAMPLES



Please inquire about samples for review and acceptance. The sample, if approved, may be incorporated into the project.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Please schedule delivery of casework and equipment when spaces are sufficiently complete to allow for installation immediately following delivery.
- B. Protect finished surfaces from soiling or damage during handling and installation. Cover working surfaces with cardboard. Mark in large lettering "NO STANDING."

Part 2 – Products

2.1 DESIGN REQUIREMENTS

- A. Modular cabinetry shall be of modern slim line styling with 1" wide vertical stiles and horizontal intermediate rails.
- B. Individual cabinets are to be rigid and self-supporting, modular in nature, for use interchangeably in a group of cabinets, or as a single unit.
- C. Top quality cabinetry to be ensured by the use of the proper machinery, tools, dies, and skilled workmanship in accordance with currently established standards of the laboratory furnishings industry. All cabinets and components are to be assembled utilizing jigs and fixtures as necessary to guarantee interchangeability of components between cabinets of like size.

2.2 CONSTRUCTION

A. CABINET:

- 1. Cabinet backs, end panels, uprights, and toe base fabrication from 18 gauge stainless steel.
- 2. Top and intermediate horizontal rails and rear triangular gussets fabricated from 18 gauge stainless steel.
- 3. "L" shaped front corner reinforcement gussets and hinge reinforcements fabricated from 14 gauge stainless steel.
- 4. Bottom triangular leveler gussets fabricated from 11 gauge stainless steel.
- 5. All cabinets shall have a cleanable smooth interior. Front and rear reinforcing members, and channel shaped uprights shall be enclosed full height.
- 6. Front face joints fully welded, ground and polished to provide a continuous flat front plane free of crevices.
- 7. Front face of doors, drawers, and panels shall align flush with cabinet front, and shall not overlap case ends or top and bottom rails.
- 8. Cabinet openings for doors and drawers rabbetted to provide a dust resistant interior.
- 9. Base cabinets furnished with removable back panel for access to stops, valves, and service lines. No back panel furnished on cabinets with drawers only. Sink base cabinets furnished with lowered back panels (2/3 height) to accommodate sink, drain and service fixtures.
- 10. Wall and tall storage cabinets furnished with fixed back panel.
- 11. Base cabinets, wall cabinets, and tall cabinets up to 48" in width double-hinged doors, furnished without vertical center post to allow full access to cabinet interior.
- 12. Concealed horizontal rails furnished beneath all drawers, with or without locks.
- 13. Vertical stiles shall be provided between all doors and drawers, or multiple tiers of drawers of all sectional cabinets.
- 14. All floor-mounted cabinets supported on four (4) adjustable leveling glides.



15. Bottom shelf of base cabinets recessed, with sides turned up to contain spills within cabinet.
16. Bottom of base cabinets shall be removable for cleanability and access to leveling glides. Open or plugged holes in bottom of cabinets for access to leveling glides are not acceptable.
17. Top of toe space below bottom cabinet closed and finished flush.
18. Front corners of cabinets are reinforced with "L" shaped gussets.
19. Front top rails on cabinets over 30" in width reinforced with additional stainless steel angle shape for greater strength and rigidity.

B. DOORS:

1. All doors shall close against rubber bumpers.
2. All hinged doors less than 36" in height shall be hung by a minimum of two (2) hinges. Doors greater than 36" in height shall be hung with a minimum of three (3) hinges.
3. Hinged and Sliding Solid Panel Doors:
 - a. 3/4" thick, double wall telescoping box construction, with sound deadened interior.
 - b. Exterior pan fabricated from 18 gauge stainless steel.
 - c. Interior pan fabricated from 20 gauge stainless steel.
 - d. Hinges attached with stainless steel screws to 14 gauge steel reinforcing plates in case and door.
4. Hinged and Sliding Framed Glass Doors:
 - a. 18 gauge stainless steel outer face to be of one piece construction, with corners fully welded, ground and polished.
 - b. 20 gauge stainless steel inner face removable for replacement of glazing.
 - c. Glazing set into full perimeter, continuous vinyl glazing channel.

C. DRAWERS:

1. Drawer fronts 3/4" thick, 20 gauge stainless steel telescoping box construction, sound deadening interior.
2. Bottoms and sides of drawer formed from single sheet of 20 gauge stainless steel, coved at bottom. Body spot welded to drawer front.
3. Drawer shall close against rubber bumpers.
4. Drawer suspension – Typical, 100 lb. capacity, zinc-plated heavy duty full-extension telescoping slides with polymer ball bearings. Full width drawers over 36" wide will have 200lb drawer glides.
5. All drawers over 24" in width furnished with two (2) drawer pulls.

D. SHELVES:

1. Adjustable intermediate shelves fabricated from 20 gauge stainless steel, with front and rear edges formed down and back 3/4". Ends formed down 3/4" for stiffness.
2. Shelves over 36" long reinforced with stainless steel hat channel stiffener running longitudinally along center of shelf.

E. KNEE SPACE RAILS AND DRAWER ASSEMBLIES:

1. Knee Space Rails: 4" high "C" shaped channel formed from 18 gauge stainless steel.
2. Drawers to be same as standard drawer unit previously specified, mounted in 4-1/2" high, 18 gauge stainless steel four (4) sided frame.
3. Knee space rails and drawer assemblies designed for mechanical attachment to adjacent cabinets without exposed fasteners.



F. CLOSURE PANELS, SCRIBES AND FILLERS:

1. Closure panels, scribes and fillers formed from 18 gauge stainless steel sheet, secured to cabinetry without exposed fasteners.

G. HARDWARE

1. Door Hinges – 2-1/2” long stainless steel five (5) knuckle institutional type butt hinges with rounded ends.
2. Door Catches – Zink plated adjustable nylon roller catch.
3. Hinged Door and Drawer Pulls – Satin chrome plated wire pull, attached with screws on minimum 4” centers.
4. Drawer pulls shall be mounted horizontally and door pulls mounted vertically.
5. Solid and framed glass sliding doors are furnished with stainless steel pulls.
6. Solid and framed glass sliding doors are suspended by nylon-tired sheaves with steel bearings on extruded aluminum overhead track. Bottom of doors held in alignment by removable stainless steel shoe.
7. Shelf Clips: Die formed stainless steel.
8. Leveling Glides: 3/8” – 16 mild steel 250lb capacity glide with minimum 1” adjustment.
9. Label Holders: (where shown on drawings, or as scheduled) 1” x 2-1/2” satin chrome plated finish, installed with screws.
10. Locks: (where shown on drawings, or as scheduled) heavy-duty cylinder type 5-disc tumbler dull nickel plated, stamped with identifying number.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Casework Installation:

1. Set casework components plumb, square and straight with no distortion and securely anchored.
2. Screw continuous cabinets together with joints flush, tight and uniform, and with alignment of adjacent units within 1/16” tolerance.
3. Secure wall cabinets to solid backing material, not to plaster, lath or gypsum board.

3.2 ADJUSTING

- A. Repair or move and replace defective work, as directed by Owner’s Representative upon completion of installation
- B. Adjust Doors, drawers, hardware and other moving or operating parts to function smoothly.

3.3 CLEANING

- A. Clean shop finished casework, touch up as required, wipe down and broom clean interior and exterior of equipment.

3.4 PROTECTION OF FINISHED WORK

- A. Provide all necessary protective measures to prevent exposure of casework and equipment from other construction activity during installation.
- B. Advise contractor of procedures and precautions for protection of installed casework from damage by workers from other trades.

