

STANDARD SPECIFICATION

DIVISION 11

SECTION 11B KITCHEN CABINETS AND COUNTERTOPS

11B.01 GENERAL: Comply with all of the Contract Documents.

11B.02 SCOPE OF WORK: Refer to "Division Scope of Work"

11B.03 WORK NOT INCLUDED

- A. The following items are excluded from the work of this Section:
1. Installation of kitchen cabinets and countertops - Section 6B.
 2. Kitchen equipment - Section 11A.
 3. Sink installation - Section 15B.

11B.04 GENERAL REQUIREMENTS

- A. The Contractor shall be responsible for obtaining admission to the factory where the cabinets are to be made, for an authorized representative of the Architect for inspection purposes when and as required. When specifically requested by Architect, the Contractor shall furnish manufacturer's affidavits certifying the quality of materials used in fabrication.
- B. Where drawing shows separate base cabinet adjoining sink cabinet, the contractor may provide a single cabinet of the overall size, with the number of doors, drawers, etc. as required for the individual cabinets, provided that the single cabinet is reinforced or otherwise substantially constructed.
- C. Counter tops including splash boards and edging material shall have one year guarantee against de-lamination and other defects in materials, construction, and workmanship, and shall be in effect from the date of acceptance of cabinet units installed. Contractor shall furnish labor and material to replace defective units.
- D. Provide filler pieces and scribe moulds for closures and scribing against all walls where cabinets do not abut wall tightly.
- E. All cabinet work shall be coordinate with the Plumbing Work. The cabinet Contractor shall take his measurements from the sample sink provided by the Plumbing to obtain the proper contour of the counter top opening which is to precisely line up with the sink and to obtain the proper dimensions for his base cabinet so that when the sink is installed they will be level and solid.

11B.05 MATERIALS

STANDARD SPECIFICATION

- A. Only the latest editions and/or revisions of referenced Standards, Codes and Specifications in force at the date of invitation to bid opening shall be applicable unless otherwise specifically noted.
- B. Lumber shall be of the best grade obtainable of the respective kinds, as defined by the rules of the recognized associations of lumber manufacturers producing the materials herein specified and shall be thoroughly dried to a moisture content of 6 percent.
- C. Plywood shall conform to U.S. Product Standard PS1-74, Interior type bonded with exterior glue for all components of the cabinets and counter tops where plywood is specified. Plywood grades shall be as follows: A-D for counter tops; B for cabinet interiors including shelves, and for tops and bottoms; and a grade suitable for natural finish for doors, drawer fronts, and end panels.
- D. Kitchen cabinets shall be the product of a reputable manufacturer specializing in the construction of finished kitchen cabinets, meeting the requirements herein specified and as shown on the Contract Drawings.
- E. Plastic laminate shall conform to Federal Specification L-P-508G, Type I, Class 1 General Purpose and shall have a Finish A-Satin. Laminate shall meet the performance requirements of the National Electrical Manufacturers Association Publication NO.LD 3-1975, for the NEMA grade designations specified. Laminate shall be Wilsonart 4550-01 Granite or approved equal with colors and patterns selected by Architect.
- F. Adhesive for plastic laminate shall be contact adhesive, 2 parts ureaformaldehyde glue/adhesive, or polyvinyl acetate (white) adhesive.

11B.06 CONSTRUCTION

- A. Wall and base cabinets shall be of the same construction and outside appearance and must have face frames.
 - 1. FACE FRAMES: Cabinets shall be constructed with front frame members of sound kiln dried hardwood suitable for natural finish and of 3/4" nominal thickness. All frame members shall be tenon and slot mortised with joints glued and stapled. Face frames shall be drum sanded to ensure smooth surfaces, free of machine marks and defects. End rails of face frame shall be grooved to receive end panels as herein specified and attachment shall be effected through the use of glue blocks stapled to the inside of face member and end panel or by other approved methods.
 - 2. END PANELS: End panels shall be 1/2" plywood (hardwood for exposed cabinet ends, softwood for unexposed) and shall be grooved to receive backs, shelves, and bottoms. As an alternate, end panels may be rabbeted to receive the back, which shall be glued and stapled to the end panels. All end panels shall be let into and

STANDARD SPECIFICATION

shall be properly glued and stapled to the frame rails. End panels shall stop 3 1/2" above finished floor. Unexposed cabinet ends are defined as those which abut adjoining cabinets or walls for their full depth, with the space covered by a closure molding; all other conditions are considered to be exposed cabinet ends.

3. **BACKS:** Backs of cabinets shall be 1/4" softwood plywood attached to minimum size 3/4" x 3 1/2" solid wood hanging rails which shall be mortised to receive back. As an alternate, bottom of back may overlap and be glued and stapled to a minimum size 3/4" x 1 5/8" solid wood bottom rail. Backs are not required behind sink cabinets.
4. **SHELVES:** Provide two shelves for wall cabinets (except those above refrigerators which do not get any shelves), half shelf for base cabinets and none for sink cabinets. Shelves shall be 1/2" softwood plywood with minimum 1/4" thick solid wood edge banding. As an alternate, shelves may be made of 7/16" thick No.1 common lumber. Shelves shall be grooved and stapled into end panels and nailed through backs.
5. **DOORS:** Doors shall be equal to Triangle Pacific Door Model CORONET (standard reveal) i.e. 3/4" solid oak or plantation hardwood and shall be routed to give a raised panel-in-frame appearance and it shall have all edges shaped to form lip which will permit opening of door with finger tip. All edges shall be filled and sanded smooth prior to final finish. Doors shall be able to be opened freely 180 degrees.
6. **CABINET BOTTOMS:** Bottoms of base cabinets shall be 1/2" softwood plywood with exterior glue, and shall be let into end panels and front face frame rail and shall either be let into the bottom back rail or shall be properly secured to the top of the bottom back rail where the back overlaps the rail. Bottoms of base cabinets shall be supported by 1" x 6" properly braced pressure treated members of 16" o.c. All wood used in the construction of the base bottom that comes in contact with the floor shall be pressure treated with CCA (Chromate Copper Arsenate) to a minimum net retention of 0.40 pounds per cubic foot of CCA and shall bear the AWPB LP-22 Quality Mark stamp. Base cabinets shall have an integral 3" x 3 1/4" recessed toe kick. Bottoms of wall cabinets shall be 1/2" thick hardwood plywood; bottoms shall be let into grooved in the end panels, the installation cleats and front frames and then glued and stapled in place.
7. **DRAWERS:** Drawers shall be constructed of a full four-sided box, with attached decorative front similar to doors. Four sides of drawer box shall be 11/16" solid pine lumber, grooved to receive 1/4" soft wood plywood drawer bottoms. Back of box shall be grooved into sides, and front of box shall be rabbeted into sides. All drawer box parts shall be glued and stapled together. Drawer fronts shall have edge shaped to form lip which will permit opening drawer with fingertip. Drawer fronts shall be attached to boxes with at least four wood screws, and additional staples and glue. All edges shall be filled and sanded smooth prior to final finish.

STANDARD SPECIFICATION

Drawer shall operate on side mounted metal rails. Design of drawer and size of drawer opening in cabinet frame shall be such as to allow a minimum clear distance between top of opening and inside bottom of drawer of 3 1/2 inches.

8. FINISH: Exposed surfaces and interior cabinets shall be factory finished consisting of stain, sealer and two varnish coats, lightly sanded between coats. Color shall be birch as selected and approved by Architect. Toe kicks shall be painted black or as approved.
9. HARDWARE: Semi-concealed spring-loaded self-closing hinges with sound deadening buttons.
10. Cabinets shall be provided with wood blocks and braces glued and stapled in place necessary to assure sturdy rigid construction.

B. COUNTERTOPS

1. Countertops back splashes and side splashes shall be made from 3/4" 5 ply plywood exterior grade plywood to which shall be laminated a sheet of high pressure plastic laminate, 0.050" thick, post forming grade.
2. The countertop shall be post formed with a 4" high back splash. The nose shall be the no-drip type or the plastic laminate shall be wrapped around the nose and returned 1" underneath the countertop. There shall be a 4" high self- edged side splash against all walls.
3. For kitchens with tiled wall between counter top and wall-cabinet, the counter top shall be made from 3/4" thick, 5 ply, exterior grade plywood with laminated high pressure plastic at the top. 1 1/2" counter top perimeter edge (front, sides & back) shall be laminated with the same type and finish plastic. Plastic laminated shall be also applied 1" underneath the counter top (front, sides & back). All corner edges shall be factory finished smooth with no sharp edges. All joints between counter top and tiled wall shall be tooled with Sikaflex® 11 FC, one component, gun-grade, adhesive / sealant compound (polyurethane based sealer), manufactured by Sica Corporation. For references, see Scope of Work, drawings for Kitchen Elevations and Finish Schedule.
4. All countertops shall be made in one piece for the full length.
5. Countertops shall be cut out for sinks according to templates furnished by the Plumbing Contractor.
6. Cut edge of plywood at sink opening shall be sealed with spar varnish.
7. Front and sides of all tops shall overhang base cabinets. Tops shall be secured to base with a minimum of four wood screws (one in each corner). Provide full side-

STANDARD SPECIFICATION

splash at wall or partial where window exists, to the extent of the wall, as shown on Contract Drawings.

8. An approved formed vinyl, neoprene or polyurethane molding 1/2 inch x 1/2 inch, set 1/8 inch below top of splash shall be furnished and secured to the back surface of the back-splash and side-splash in such a manner as to seal the gap between wall, top and vertical joint at ends of splash.

C. INSTALLATION

1. Cabinets shall be secured to plumbing chase walls wood backing by heavy coarse thread steel plated screws (min 3"); to block walls with metal masonry anchors or XB. All expansion bolt inserts are to be firmly mounted. Cabinets shall be through - bolted to solid plaster partitions with 5/16" diameter bolts, 1 1/4" diameter washers, lock washers, and nuts; all hardware shall be recessed into opposite wall and concealed with plaster. All securing hardware of whatever type shall be spaced no greater than 12" on center."
2. Should it be required to provide shims for leveling of base cabinets, softwood, cedar, particle board, or equal shims will be acceptable. In no event, however, are the cabinets to be shimmed to a point where more than 5/8" clear exists at any one point between the abutting floor tile and the cabinet base.

11B.07 SHOP DRAWINGS

- A. Submit shop drawings with all details and information, including color, style etc., to Architect, prior to installation for approval. Layouts and locations of cabinets shall be included.
- B. Samples of kitchen cabinets shall be delivered to Architect, for approval prior to the fabrication of the cabinets for the project.

11B.08 GUARANTEES¹

- A. Guarantee all items of work furnished and installed under this Section for (1) one year, in addition to manufacturer's standard warranties. All guarantees to be from the date, when **Final Certificate of Occupancy** is issued from Department of Buildings.

¹ Revised – June, 2003