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nately 45 degrees extending across not less than 3 stud spaces and shall be let into the face of the studs.

9.212 Wood sheathing boards shall be not less than 1 inch thick, not more than 8 inches wide, applied solid with each board drawn up tight and laid flush with the surface of the

9.213 Wood sheathing used in connection with stucco finish shall be applied horizontally and the frame shall be braced as described in 9.211 above.

9.214 Where shingles are applied over other than wood sheathing boards, 1x2 inch nailing strips nailed to the studs over the building paper, spaced according to the shingle exposure, shall be used. Wood sheathing boards shall be installed and laid closed under shingle siding where the shingle butt thickness is less than  $\frac{3}{4}$  inch. See 9.211 above.

9.215 All exterior finish shall be backed up with water-resisting building paper or saturated asphalt felt and shall be applied over all types of sheathing without exception. Each lap shall be not less than 4 inches with at least a 4 inch lap on the waterproof material around all openings.

9.216 All exterior openings in frame walls shall have strips of waterproof paper or saturated asphalt felt installed behind the exterior trim.

of line, except where the length of stud exceeds 20 feet, in which case a 4x4 inch plate shall be provided at the second floor level or at the attic floor level. Studs shall be in continuous lengths without splicing. Floor joists supported on exterior frame walls shall bear on 4x4 inch plates properly

be secured into studs, or they shall bear on 1x6 inch ledger boards set into the face of the studs. Joists bearing on ledger boards shall be securely nailed to face of studs.

Section 9.3 INTERIOR PARTITIONS

9.302 Nonbearing partitions may be set the 2 inch way around closets and chimneys, and in other locations where they contain no openings.

9.303 All openings in interior bearing partitions shall have jambs and head double-framed same as required for exterior openings. Jambs and heads of openings in non-bearing partitions shall be 2x4's doubled.

9.305 Were non-bearing partitions run parallel to the second floor joists, a lathing member shall be placed above the partition plate and shall be wide enough to provide nailing surface for gyp-lath and register for the lath.

surface for ceiling lath. All partition plates shall lap at all intersecting partitions and at outside walls, and shall be double spiked.

9.306 Wood bearing partitions in cellars or basements will not be acceptable except partitions supporting basement stairs and landings, provided such partitions are supported on a 3-inch cement curb. A sheet of non-corrodible metal shall separate the wood construction from the cement base.

9.307 All interior partitions connecting to masonry wall shall have the end stud anchored to the masonry with not less than three 1/2-inch bolts in each story height.

9.308 No stud shall be cut more than half its depth to re-

9.369 Where the running of duct risers and returns necessitates the cutting of plates, joists, and studs, proper provision shall be made for tying together and supporting all structural members.

3.310 Corners for all rooms shall be framed solid to  
lath or other interior finish.

10.101 Install adequate column supports for first floor construction at turn of basement stair, centered on a concrete footing of proper size.

10.102 Main stairways shall have not less than 7 feet

10.103 In connection with stair construction, the cutting

and framing of all structural members such as stringers and landings, shall be such that the development of the full strength will not be impaired. Stringers shall have sole bearing at top and bottom.

10.105 Fire stops shall be provided in partitions and outside stud walls at first floor and at attic, which shall be closed completely all openings between cellar and upper stories.

10.106 Where showers occur over bathtubs, the wall above the tubs for a height of at least 6 feet from the bathroom floor shall be finished with a waterproof material. R

10.106 Unless required otherwise by more stringent applicable building codes, the following requirements in making

1. All wood framing of walls and ceilings of attached

2. Install metal-clad door and frame, with self-closing device at all doorways between garage and main building.

Section 11.1 ROOF COVERINGS

11.102 Before applying the roof covering, roof sheathing shall be covered with saturated asphalt roofing felt of the following weight:

1. Not less than 30-pound felt for slate or shingle or slate roofs.
2. Not less than 30-pound felt for asphalt shingle where less than double thickness occurs at any point.
3. Not less than 15-pound felt for asphalt shingle where double thickness is obtained at all points.

11.103 Asphalt shingles shall bear Fire Underwrite Class "C" label, and shall be of the following minimum weight:

Square butt strip shingles: 210 pounds per square.  
Individual shingles: 250 pounds per square.  
Hexagon strip shingles: 165 pounds per square.  
Note: The minimum pitch for asphalt shingle roofing shall be 5 inches in 12 inches. A double slope shall be used for pitches less than 5 inches in 12 inches.

shall be 5 inches in 12 inches. A double starting row shall be used on shingle installations. One row of wood shingles shall be installed under the doubled starting row of all asphalt shingle installations.

the following:

14 inch slate—	not over 5½ inches to the weather.
16 inch slate—	not over 6½ inches to the weather.
18 inch slate—	not over 7½ inches to the weather.
11.105 Asbestos-cement shingles and tiles shall be applied	

11.106 Built-up asphalt and tar and gravel coverings flat roofs shall be applied according to manufacturer's directions and shall carry the regular manufacturer's guarantee for the type of roof used.

11:108 Wood shingle exposure to the weather shall exceed the following:

5.302 Non-bearing partitions may be set the 2 inch way from the floor joists, and chimneys, and in other locations where they contain no openings.

5.303 All openings in interior bearing partitions shall have jambs and head double-framed same as required for exterior openings. Jambs and heads of openings in non-bearing partitions shall be 2x4's doubled.

5.304 The top plates of all bearing partitions shall be doubled.

5.305 Non-bearing partitions run parallel to the wall, and floor joists, a lathing member shall be placed above the partition plate and shall be wide enough to provide nailing surface for ceiling lath. All partition plates shall lap at all intersecting partitions and at outside walls, and shall be doubled.

5.308 Wood bearing partitions in ceilings of alcoves with no other partitions shall be supported by lashing to the ceiling joists. Stairs and landings, provided such partitions are supported on a 3-1/2-inch concrete curb. A sheet of non-corrodible metal shall be attached to the bottom of the partition.

5.307 All interior partitions connecting to masonry wall shall have the end stud anchored to the masonry with not less than three 1/2-inch bolts in each story height.

5.306 No stud shall be cut more than half its depth to receive plumbing pipes or ducts. If more depth is required, the partition studs shall be laced or braced accordingly.

5.305 Where the running of duct risers and returns necessitates the cutting of the studs, the cutting and supporting provision shall be made for tying together and supporting all structural members affected by such cutting.

5.310 Corners for all rooms shall be framed solid to the ceiling and floor and have the interior finish.

Section 10.1 MISCELLANEOUS

10.101 Install adequate column supports for first floor construction at turn of basement stair, centered on the concrete footing of proper size.

10.102 Nail stair stringers shall have not less than 7 feet of bearing on concrete, vertically on the face of the Minimum head room for basement stair, 6 1/2 feet.

10.103 In connection with stair construction, the cutting and framing of floor joists, and the installation of stringers and landings, shall be such that the development of the full strength will not be impaired. Stringers shall have sole bearing on concrete.

10.104 Mastic caulking will be required around all exterior openings in masonry or masonry veneer walls and at other intersections of wood and masonry where considered necessary.

10.105 Fire stops shall be provided in partitions and on side stud walls at first floor and at attic, which shall be cut through by fire rated doors, fire rated floor, fire rated exterior walls and fire rated roof.

Approved masonry or wood blocks cut in solid, or the water stop method will be acceptable.

10.106 Where showers occur over bathtubs, the water stop shall be installed at least 6 feet from the bathtub. The floor shall be finished with a waterproof material. Resilient battens shall be supported at the rim on metal studs or wood blocks securely anchored to the stud frame.

10.107 Metal entrance doors shall be not less than 3 1/2 inches.

10.108 Unless required otherwise by more stringent applicable building codes, the following requirements in metal attached or built-in garage fire-resistant shutters or attachments shall apply:

a. Built-in garage shutters shall be attached to the wall or partition in metal lath shall be covered with a 1-inch thickness of metal lath and cement plaster or a covering of other fire-resistant material. All openings between joists and studs shall be filled with fire-resistant material.

b. Metal-clad door and frame, with self-closing

ing, at all doorways between garage and main building.

**Section 11.1 ROOF COVERINGS**

11.101 Tile, slate, and asbestos-cement roofs shall be installed according to the manufacturer's directions or recommendations.

11.102 Before applying the roof covering, roof sheathing shall be covered with saturated asphalt roofing felt of the following weight:

1. Not less than 30-pound felt for tile, asbestos-cement shingle or slate roofs.
2. Not less than 30-pound felt for asphalt shingle where less than double thickness occurs at any point.
3. Not less than 15-pound felt for asphalt shingle where double thickness is obtained at all points.

**Note:** No felt will be required where triple thickness is required.

asphalt shingles is obtained at all points.

11.103 Asphalt shingles shall bear Fire Underwrite Class "C" label, and shall be of the following, minimum weight:

Square butt strip shingles: 210 pounds per square.  
Individual shingles: 250 pounds per square.  
Hexagon strip shingles: 165 pounds per square.

Note: The minimum weight for asphalt shingle strip shall be 5 inches in 12 inches. A double strip shingle row shall be used on shingle installation. One row of wood shingles shall be installed under the doubled starting row of all asphalt shingle installations.

11.104 When slate is installed, exposure shall not exceed the following:

14 inch slate—not over 5 1/2 inches to the weather.  
16 inch slate—not over 6 inches to the weather.

11.105 1/2 inch slate—not over 7/8 inches to the weather.

11.105 Asbestos-cement shingles and tiles shall be applied with exposures as recommended by the manufacturers.

11.106 Built-up asphalt and tar and gravel coverings on flat roofs shall be applied according to manufacturer's directions and shall carry the regular manufacturer's guarantee for the type of roof used.

11.107 Wood shingles shall be edge-grain tapered shingles with a minimum thickness, 5 butts in 2 inches.

11.108 Wood shingle exposure to the weather shall not exceed the following: