

FACILITY		PR#:
PROJECT		
ADDRESS		

DETAILS AND FINISHES
OAR 333-535-0270
Effective October 1, 2009

_____ **Schematic Design (SD) Review** _____ **Construction Document (CD) Review**

OAR RULE SECTION	COMPLIED?		COMMENTS
	YES	NO	
(1) The nonconforming portions of existing facilities that are not being totally modernized shall comply with the safety requirements dealing with Interior Finishes as listed in Chapters 18, 19, 20 & 21 of the National Fire Protection Association (NFPA) 101, when the facility is also to be Medicare or Medicaid certified.			
(2) Details and finishes in new construction projects, including additions and major alterations, shall comply with the following:			
(a) Details: (A) Compartmentation, exits, fire alarms, automatic extinguishing system, and other details relating to fire prevention and fire protection shall comply with requirements listed in chapters 18, 19, 20 and 21 of the NFPA 101, when the facility is also to be Medicare or Medicaid certified.			
(B) Items such as drinking fountains, telephone booths, vending machines, and portable equipment shall be located so as not to restrict corridor traffic or reduce the corridor width below the required minimum.			
(C) Rooms containing any of the following: bathtubs, sitz baths, showers or water closets, subject to occupancy by patients, shall be equipped with doors and hardware that will permit access from the outside in any emergency. When such rooms have only 1 opening, the doors shall be capable of opening outward or be otherwise designed to be opened without need to push against a patient who may have collapsed within the room.			
(D) If psychiatric care units are required by the program, suitable hardware shall be provided on doors to patient rooms so that access to these rooms can be controlled by staff.			
(E) If required by the program, doors to patient rooms in psychiatric care units shall not be lockable from inside the room.			
(F) Windows and other doors that may be frequently left in an open position shall be provided with insect screens.			

OAR RULE SECTION	COMPLIED?		COMMENTS
	YES	NO	
(G) Patient rooms intended for occupancy of 24 hours or more shall have windows with sills not more than 3 feet above the floor (windows in Intensive Care Unit and Critical Care Unit may be 5 feet above the floor).			
(H) Linen and refuse chutes shall meet requirements of NFPA-101, and have a minimum cross sectional dimension of not less than 2 feet.			
(I) Thresholds and expansion joint covers shall be made flush with the floor surface to facilitate use of wheelchairs and carts. Expansion joints shall be constructed to restrict passage of smoke and fire.			
(J) Grab bars shall be provided at all patients' toilets, showers, tubs, and sitz baths, except in psychiatric patient care units. The bars shall have 1 and ½ clearance to walls and shall have sufficient strength and anchorage to sustain a concentrated load of 250 pounds.			
(K) Anchoring. Sinks in hand-washing stations shall be securely anchored to withstand an applied vertical load of not less than 250 pounds (113.4 kilograms) on the fixture front.			
(L) Mirrors shall not be installed at hand-washing stations in food preparation areas or in sensitive areas such as nurseries, clean and sterile utility, storage rooms and scrub sinks.			
(M) Hand drying devices. Provision for hand drying shall be included at all hand-washing stations except scrub sinks. These shall be single use separate individual paper or cloth units enclosed in such a way as to provide protection against dust or soil and ensure single unit dispensing. Hot air dryers are permitted provided that installation is such to preclude possible contamination by recirculation of air.			
(N) Radiation protection requirements for Radiographic Imaging and gamma ray installations shall be in accordance with National Council of Radiation Protection Reports Numbers 33 and 49. Provision shall be made for testing the completed installation before use and all defects must be corrected before acceptance. Prior to their use, all installations shall be approved and licensed by the Radiation Control Section of the Department of Health Services, Public Health Division.			
(O) The minimum ceiling height shall be 7 feet 10 inches with the following exceptions:			
(i) Boiler rooms shall have ceiling clearances not less than 2 feet 6 inches above the main boiler header and connecting piping.			
(ii) Radiographic, operating and delivery rooms, and other rooms containing ceiling-mounted equipment or ceiling-mounted surgical light fixtures shall have height required to accommodate the equipment or fixtures.			

OAR RULE SECTION	COMPLIED?		COMMENTS
	YES	NO	
(iii) Ceilings in corridors, storage, toilet rooms, and other minor rooms shall be not less than 7 feet 6 inches.			
(iv) Soffits, signage, lights, mechanical items and other suspended items located in the path of normal traffic shall not be less than 7 feet above the floor. Cubicle curtain tracks and television suspensions in individual rooms shall not be less than 6 feet-8 inches above the floor.			
(P) Recreation rooms, exercise rooms, and similar space where impact noises may be generated shall not be located directly over patient bed area, delivery or operating suites, unless special provisions are made to minimize such noise.			
(Q) Rooms containing heat-producing equipment (such as boiler or heater rooms and laundries) shall be insulated and ventilated to prevent any floor surface above from exceeding a temperature of 10°F. above the ambient room temperature of the room producing the heat generation.			
(R) Sound transmission criteria shown in Table 1 (OAR 333-535-0270) shall apply to partition, floor and ceiling construction in patient areas.			
(S) Mechanical equipment located on the same floor or above patient rooms, offices, nurse stations, and similar occupied spaces shall be effectively sound isolated from the floor and structure.			
(T) Equipment and supply storage shall be provided for each hospital department in accordance with the Functional Program; however, a minimum of 10 square feet per bed shall be provided in patient care areas. In all other departments, the amount required shall be based on either a study of supply and equipment needs which shall be submitted with construction plans for review or a minimum of 10 percent of gross departmental area. All rooms and corridors within a department shall be included when calculating gross departmental area.			
(b) Finishes:			
(A) Cubicle curtains and draperies shall be noncombustible or rendered flame retardant and shall pass both the large and small scale tests of NFPA Standard 701.			
(B) Flame spread and smoke developed ratings of finishes are covered under the State of Oregon Building Code. Whenever possible, the use of materials known to produce large amounts of noxious gases shall be avoided.			

OAR RULE SECTION	COMPLIED?		COMMENTS
	YES	NO	
(C) Floor materials shall be easily cleanable and have wear resistance appropriate for the location involved. Floors in areas used for food preparation or food assembly shall be water-resistant and grease-proof. Joints in tile and similar material in such areas shall be resistant to food acids. In all areas frequently subject to wet cleaning methods, floor materials shall not be physically affected by germicidal and cleaning solutions. Floors that are subject to traffic while wet (such as shower and bath areas, kitchens, operating and C-section rooms, clean core areas, recovery areas except step-down recovery and similar work areas) shall have a non-slip surface as recommended by Americans with Disabilities Act, Architectural and Transportation Barriers Compliance Board (Access Board).			
(D) Wall bases in kitchens, operating and C-section rooms, clean core areas, surgical scrub corridors, soiled workrooms, endoscopy rooms, housekeeping closets and other areas that are frequently subject to wet cleaning methods shall be made integral and covered with the floor, tightly sealed to the wall, and constructed without voids that can harbor insects.			
(E) Wall finishes shall be washable and, in the immediate area of plumbing fixtures, shall be smooth and moisture resistant (orange peel not allowed). Finish, trim, and floor and wall construction in dietary and food preparation areas shall be free from spaces that can harbor rodents and insects.			
(F) Floor and wall penetrations by pipes, ducts, and conduits shall be tightly sealed to minimize entry of rodents and insects. Joints of structural elements shall be similarly sealed.			
(G) Ceilings in restricted areas such as: surgery rooms, delivery rooms, clean core areas and specialized radiographic rooms shall be constructed with material that are monolithic, scrubbable, and capable of withstanding chemicals, such as gypsum board and be without crevices that can contain dirt particles.			
(H) Ceilings in semi-restricted areas such as: airborne infection isolation rooms, protective environment rooms and central sterile supply spaces shall be smooth, scrubbable, non-absorptive, non-perforated, capable of withstanding cleaning with chemicals, and without crevices that can harbor mold and bacterial growth.			
(I) If lay-in ceiling is provided in semi-restricted areas, it shall be gasketed or clipped down to prevent the passage of particles from the cavity above the ceiling plane into the semi-restricted environment. Perforated, tegular, serrated cut, or highly textured tiles are not acceptable.			
(J) Dietary and food preparation areas shall have a finished ceiling covering all overhead duct work and piping.			

OAR RULE SECTION	COMPLIED?		COMMENTS
	YES	NO	
(K) Finished ceilings may be omitted in general storage areas, and similar spaces, unless required for fire-resistive purposes.			
(L) Acoustical ceilings shall be provided for corridors in patient areas, nurses' stations, labor rooms, day rooms, recreation rooms, dining areas, and waiting areas.			
(M) In dietary areas and in other areas where dust fallout may present a problem, suspended ceilings shall be provided.			
(N) Ceilings of patient rooms in psychiatric care units shall be of monolithic or bonded construction.			
(O) Top-set rubber or vinyl wall base, where used, shall be sealed tightly to the floor as well as to the wall.			

**TABLE 1
OAR 333-535-0270**

SOUND TRANSMISSION LIMITATIONS IN GENERAL HOSPITALS

	AIRBORNE SOUND TRANSMISSIONS a/ CLASS (STC)		IMPACT INSULATION b/ CLASS (11C)
	PARTITIONS	FLOORS	FLOORS
Patients room to patients room	45	50	--
Patient room to corridor (with entrance)	35b/	--	--
Patient room to MRI room	60f/	60f/	--
Public space to patients room c/	50	50	50 d/
Public space to MRI room	50f/	50f/	--
Public space to toilet room	45	45	--
Treatment/Exam room to corridor (with entrance)	35b/	--	--
Treatment/Exam room to public space	50	50	--
Treatment/Exam room to Treatment /Exam room	50	50	--
Treatment/Exam room to MRI room	60f/	60f/	--
Service areas to patients room e/	60	60	60d/

a/ Sound transmission class (STC) shall be determined by tests in accordance with methods set forth in ASTM Standard E 90 and ASTM Standard E 413. The sound isolation ratings are considered the composite sound isolation performance values associated with the demising construction, whether they are the floor/ceiling or wall partitions.

b/ The performance of this construction assumes a closed door.

c/ Public space includes corridors (except patient room access corridors) lobbies, dining rooms, recreation rooms, treatment/exam rooms, and similar spaces.

d/ Impact noise limitation applicable only when corridor, public space, service area, or play/recreation area is over a patient room.

e/ Service areas include kitchens, elevators, elevator machine rooms, laundries, garages, maintenance rooms, generator rooms, boiler and mechanical equipment rooms, and similar non-public spaces that serve the operation of the facility. Mechanical equipment located on the same floor or above patients rooms, offices, nurse stations, and similar occupied spaces shall be effectively isolated from the floor.

f/ MRI noise and vibration transmission to nearby sensitive spaces requires special consideration.

g/ Where partitions do not extend to the structure above, sound transmission through ceilings and composite STC performance must be considered. Demountable wall STC performance shall be balanced with the Ceiling Attenuation Class (CSC) performance of the ceiling.

NOTE:

The requirements set forth in this table assume installation methods which will not appreciably reduce the efficiency of the assembly as tested.