

REQUIRED ELEMENTS FOR DENTAL FACILITIES					
Guidelines for Design and Construction of Hospitals and Outpatient Facilities (FGI 2014)					
ANSI/ASHRAE/ASHE Standard 170-2013, Ventilation of Health Care Facilities (ASHRAE)					
Code Reference Category					
Phase		Code Section	Component/Requirements	Complies	Comments
Schematic	Design Development				
3.14-3 Dental Treatment Areas					
3.14-3.1 Examination and Treatment Space					
•	•	3.14-3.1.1	The examination and treatment space shall be permitted to be a room or a patient care station in an open treatment area	Required	
3.14-3.2 Family Dentistry/Pediatric Dentistry Examination and Treatment Space					
•	•	3.14-3.2.1.1	Pediatric consultation/treatment room - if provided	1 min	
•	•	3.14-3.2.1.1, A3.14-3.2.1.1	Provide when pediatric patients are treated in a facility	Required	
•	•	A3.14-3.2.1.1	Clearances to accommodate the provider, parent, and infant/child	Required	
•	•	A3.14-3.2.1.1	An observation window may be necessary	Required	
•	•	3.14-3.2.2.1	Treatment space	Required	
•	•	3.14-3.2.2.1	Area	80 S.F. min	
•	•	3.14-3.2.2.2	Clearances	On all sides and head of each chair	2'-8" min
•	•	3.14-3.2.5	Hand-washing station	(1) in each treatment room	Required
•	•			(1) per (2) treatment stations	Required
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	N/R	
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	2	
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	6	
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	N/R	
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	N/R	
	•	ASHRAE 7.1	Relative Humidity (%)	60 max	
	•	ASHRAE 7.1	Design Temperature(°F)	70-75	
3.14-3.3 Family/Pediatric Dentistry Hygiene Space					
•	•	3.14-3.3.2.1	Area	80 S.F. min	
•	•	3.14-3.3.2.2	Clearances	On sides and head of each chair	2'-8" min
•	•	3.14-3.3.5, 3.14-3.2.5	Hand-washing station	(1) in each treatment room	Required
•	•			(1) per (2) treatment stations	Required
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	N/R	
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	2	
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	6	
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	N/R	
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	N/R	
	•	ASHRAE 7.1	Relative Humidity (%)	60 max	
	•	ASHRAE 7.1	Design Temperature(°F)	70-75	

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		3.14-3.4 Treatment and Recovery Spaces for Anesthesia Use (if general anesthesia is administered)			
•	•	3.14-3.4	Private Treatment Room	Required	
•	•	3.14-3.2.2.1	Area	80 S.F. min	
•	•	3.14-3.2.2.2	Clearances	On sides and head of each chair	2'-8" min
•	•	3.14-3.2.5	Hand-washing station	Required	
•	•	A3.14-3.4(a)	Space for a recliner and a chair	Required	
•	•	A3.14-3.4(c)	An observation window	Required	
	•	3.14-8.2	HVAC System	Required	
	•	3.14-8.2	HVAC requirements for rooms used for general anesthesia in Part 4 (ANSI/ASHRAE/ASHE 170: Ventilation of Health Care Facilities)	Required	
		3.14-3.6 Support Areas for Dental Examination and Treatment Space			
•	•	A3.14-3.6	Space for a dental panoramic x-ray system and printer - if provided		
•	•	3.14-3.6.1	Consultation Room	Required	
•	•	3.14-3.6.2, 3.1-3.6.9	Clean Supply Room (Sterile Storage) *Clean and Soiled Rooms Must Be Separate	Required*	
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Positive	
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	2	
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	N/R	
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	N/R	
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	N/R	
	•	ASHRAE 7.1	Relative Humidity (%)	N/R	
	•	ASHRAE 7.1	Design Temperature(*F)	72-78	
•	•	3.14-3.6.3, 3.1-3.6.10	Soiled Holding Room *Clean and Soiled Rooms Must Be Separate	Required*	
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative	
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	2	
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	10	
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	Yes	
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No	
	•	ASHRAE 7.1	Relative Humidity (%)	N/R	
	•	ASHRAE 7.1	Design Temperature(*F)	N/R	
		3.14-3.6.4, 3.7-3.6.13	Sterilization Facilities – If provided		
•	•	3.7-3.6.13	Sterile Processing Room One-Way Traffic, Decon → Clean	Required	
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative	
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	N/R	
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	10	
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	Yes	
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No	
	•	ASHRAE 7.1	Relative Humidity (%)	N/R	
	•	ASHRAE 7.1	Design Temperature(*F)	N/R	
•	•	3.7-3.6.13.2	Decontamination Area	Required	
•	•	3.7-3.6.13.2(1)(a)	Countertop	Required	
•	•	3.7-3.6.13.2(1)(b)	Hand-washing Station	Required	

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•	•	3.7-3.6.13.2(1)(c), 3.7-3.6.13.2(2)	Instrument wash sink	Decontamination sink shall be separated from clean work area by either a 4-foot distance from the edge of the sink or a separating wall or screen extending 4'-0" min above the sink rim.	Required		
•	•	3.7-3.6.13.2(1)(d)	Supply Storage		Required		
•	•	3.7-3.6.13.3	Clean Work Area		Required		
•	•	3.7-3.6.13.3	Countertop		Required		
•	•	3.7-3.6.13.3	Sterilizer		Required		
•	•	3.7-3.6.13.3	Hand-washing Station		Required		
•	•	3.7-3.6.13.3	Built-in Supply Storage		Required		
3.14-3.7 Support Areas for Staff							
•	•	3.14-3.7	Staff Lounge		Required		
•	•	3.14-3.7	Lockers		Required		
•	•	3.14-3.7	Toilet Room		Required		
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas		Negative		
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour		N/R		
	•	ASHRAE 7.1	Min. Total Air Changes / Hour		10		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors		Yes		
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units		No		
	•	ASHRAE 7.1	Relative Humidity (%)		N/R		
	•	ASHRAE 7.1	Design Temperature(°F)		N/R		
3.14-3.8 Support Areas for Patients							
•	•	3.14-3.8	Toilet Room(S) For Patient Use		Required		
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas		Negative		
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour		N/R		
	•	ASHRAE 7.1	Min. Total Air Changes / Hour		10		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors		Yes		
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units		No		
	•	ASHRAE 7.1	Relative Humidity (%)		N/R		
	•	ASHRAE 7.1	Design Temperature (°F)		N/R		
3.14-4 Patient Support Services							
3.14-4.1 Laboratory Services – If Provided on Site							
•	•	3.1-4.1.2, 3.1-4.1.2.1	Laboratory Testing/Work Area In a dedicated room unless the tests are exempted to comply by the FDA				
•	•	3.1-4.1.2.2	Work Area		Required		
•	•	3.1-4.1.2.2	Work counter		Required		
•	•	3.1-4.1.2.2	Sink(s)		Required		
•	•	3.1-4.1.2.3	Hand-washing station		Required		
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas		Negative		
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour		2		
	•	ASHRAE 7.1	Min. Total Air Changes / Hour		6		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors		N/R		
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units		N/R		
	•	ASHRAE 7.1	Relative Humidity (%)		N/R		
	•	ASHRAE 7.1	Design Temperature(°F)		70-75		

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3.14-1.1.2, 3.1-5 General Support Facilities						
3.14-5.5 Environmental Services						
•	•	3.14-5.5	Environmental Services Room	Required		
•	•	3.1-5.5.1.2	Service or floor mounted sink	Required		
•	•	3.1-5.5.1.2	Storage for supplies and housekeeping equipment	Required		
•	•	3.1-5.5.1.2	hand-washing station or hand sanitation dispenser	Required		
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative		
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	N/R		
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	10		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	Yes		
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No		
	•	ASHRAE 7.1	Relative Humidity (%)	N/R		
	•	ASHRAE 7.1	Design Temperature (°F)	N/R		
3.14-6 Public and Administrative Areas						
3.14-6.2 Public Areas						
•	•	3.14-6.2.2	Reception	Required		
•	•	3.14-6.2.3	Waiting Area	Required		
3.14-6.3, 3.1-6.3 Administrative Areas – Per functional program						
•	•	3.1-6.3.3	General or Individual Offices	Required		
•	•	3.1-6.3.5	Medical Records	Required		
•	•	3.1-6.3.6	Equipment and Supply Storage	Required		
3.1-6.4 Support Areas for Staff						
•	•	3.1-6.4.2	Storage for Personal Effects	Required		
3.14-1.1.2, 3.1-7 Design and Construction Requirements						
3.1-7.2 Architectural Details, Surfaces, And Furnishings						
•	•	3.1-7.2.2.1	Corridor width	See NFPA LSC		
•	•	3.1-7.2.2.2	Ceiling Heights	Unoccupied and corridors	7'-6"	
•	•			Occupied Rooms	7'-10"	
•	•	3.1-7.2.2.2	Ceiling Mounted Equipment	Stowed	7'-0"	
•	•			Circulation	7'-6"	
•	•	3.1-7.2.2.3	Doors	width	See NFPA LSC	
•	•			height	83.5 inches	
3.14-8 Building Systems						
3.1-8.2 Ventilation and space-conditioning requirements						
	•		Room	Filter Bank	Min. Filter Efficiencies	
	•	ASHRAE 6.4	Administrative; bulk storage; soiled holding spaces; food preparation spaces; and laundries	Filter Bank No. 1 (MERV)	7	
	•	ASHRAE 6.4		Filter Bank No. 2 (MERV)	NR	
	•	ASHRAE 6.4	All other outpatient spaces	Filter Bank No. 1 (MERV)	7	
	•	ASHRAE 6.4		Filter Bank No. 2 (MERV)	NR	

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1.2-5 Planning and Design Considerations and Requirements					
1.2-5.1.5 Design Criteria for Performance of Interior Wall and Floor/Ceiling Constructions					
	•	1.2-5.1.5.2	Minimum STC rating for demising walls, See Table 1.2-6 below	Required	
		Table 1.2-6	Design Criteria for Minimum Sound Isolation Performance Between Enclosed Rooms		
	•	Exam room	Adjacent to:	Corridor (with entrance)	35 STC
	•			Public space	50 STC
	•			Exam Room (no electronic masking)	50 STC
	•			Exam Room (with electronic masking)	40 STC
	•	Treatment Room	Adjacent to:	Room	50 STC
	•			Corridor	35 STC
	•	Toilet Room	Adjacent to:	Public space	45 STC
	•	Consultation Room	Adjacent to:	Public space	50 STC
	•			Patient Rooms	50 STC
	•			Corridor (with entrance)	35 STC

END