

Design Submission Requirements

DSG-3.6 Freestanding Cancer Treatment Facilities

REQUIRED ELEMENTS FOR FREESTANDING CANCER TREATMENT 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						
3.6-3 Diagnostic and Treatment Areas							
3.6-3.2 Cancer Treatment Area							
•	•	3.6-3.2.1.1	Open treatment area			Permitted	
		3.6-3.2.1.1	Area	@ Open Area	Between beds or lounge chairs	No minimum	
•	•	3.6-3.2.2(1)	Clearances	@ Open Area	Between beds or lounge chairs	5'-0"	
•	•	3.6-3.2.1.3	Individual Patient Care Stations			Required	
•	•	3.6-3.2.2.1(1)	Area	@ Bays	70 S.F. min		
•	•			@ Cubicles	80 S.F. min		
•	•			@ Rooms	100 S.F. min		
•	•	3.6-3.2.2.2(2)	Clearances	@ Bays, Cubicles and Single Rooms	3 sides of bed or lounge chair	3'-0"	
•	•	3.6-3.2.5.1, 3.1-3.6.5.3(1)	Handwashing Station(s) *Number per (4) patient care areas			1*	
•	•	3.6-3.2.4	Nurse Station *visual observation of all patient care stations			Required*	
•	•	3.6-3.2.5.2	Hand-wash station			Required	
•	•	3.6-3.2.6	Patient 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	
3.6-3.4 Special Patient Treatment Rooms							
3.6-3.4.1, 3.1-3.4.2 Airborne Infection Isolation (All) Rooms – if provided							
•	•	3.1-3.4.2.2(1)	Accommodates only one patient at a time			Required	
•	•	3.1-3.4.2.2(2)	Handwashing station			Required	
•	•	3.1-3.4.2.2(3)	Storage for Personal Protective Equipment (PPE) at entrance to room			Required	
		3.1-7.2.3.1	Floor Finishes	Monolithic & 6"	Cleanable	Required	
		3.1-7.2.3.1		Integral Cove Base	Wear resistant	Required	
		3.1-7.2.3.2	Wall Finishes	Free of open joints	Washable	Required	

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	•	3.1-3.4.2.4	Perimeter walls, ceiling, floor, and penetrations shall be tightly sealed		Required		
•	•	Table 3.1-3	Med Gas Station Outlets *Portable Allowed	O ²	1*		
•	Vac			1*			
•	Medical Air			N/R			
	•	Table 3.1-1	Electrical Receptacles	Total number	8 Single		
	•			@ Head of exam table	4 min		
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas		Negative		
	•	ASHRAE 7.1	Min. Outdoor ACH		2		
	•	ASHRAE 7.1	Min. Total ACH		12		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors *See ASHRAE 7.2 for exemptions		Yes*		
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units		No		
	•	ASHRAE 7.1	R.H.		Max. 60		
	•	ASHRAE 7.1	Design Temperature		70-75 F		
	•	3.1-3.4.2.4	See FGI part 4, ASHRAE section 7.2 for additional room-specific ventilation requirements		Required		
	•	3.1-3.4.2.4	Doors	self closing	Required		
	•			edge seals	Required		
•	•	3.1-3.4.2.3	Anteroom – if provided				
•	•	3.1-3.4.2.3	Space for persons to don personal protective equipment before entering patient room		Required		
•	•	3.1-3.4.2.3(3)(a)	Hand-wash station		Required		
•	•	3.1-3.4.2.3(3)(b)	Storage for PPE		Required		
•	•	3.1-3.4.2.3(3)(c)	Disposal/holding for used PPE		Required		
	•	3.1-7.2.3.1	Floor Finishes	Monolithic & 6"	Cleanable	Required	
	•	3.1-7.2.3.1		Integral Cove Base	Wear resistant	Required	
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas (see 7.2)		Negative		
	•	ASHRAE 7.1	Min. Outdoor ACH		N/R		
	•	ASHRAE 7.1	Min. Total ACH		10		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoor		yes		
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units		No		
	•	ASHRAE 7.1	R.H.		N/R		
	•	ASHRAE 7.1	Design Temperature		N/R		
3.6-3.6 Support Areas for the Cancer Treatment Facility							
•	•	3.6-3.6.6, 3.1-3.6.6	Medication Preparation Room *Select medication preparation room and/or Self-contained medication dispensing unit		Required *		
•	•	3.1-3.6.6.2	Work counter		Required		
•	•	3.1-3.6.6.2	Hand-washing station		Required		
•	•	3.1-3.6.6.2	Lockable refrigerator		Required		
•	•	3.1-3.6.6.2	Locked storage for controlled drugs		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		4		
	•	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		

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	•	ASHRAE 7.1	Design Temperature (*F)	70-75		
•	•	3.1-3.6.6	Self-contained medication dispensing unit *Select medication preparation room and/or Self-contained medication dispensing unit	Required *		
•	•	3.1-3.6.6	Hand-washing station or sanitation *Located next to dispensing unit.	Required *		
•	•	3.6-3.6.7, 3.1-3.6.7	Nourishment Facilities – if provided	Required*		
		3.6-3.6.7.1	Drinking Water dispenser - separate from hand-wash	Required		
•	•	3.1-3.6.7(1)	Hand-wash station *Directly accessible	Required*		
•	•	3.1-3.6.7(3)	Work counter	Required		
•	•	3.1-3.6.7(4)	Storage	Required		
•	•	3.1-3.6.7(5)	Fixtures and appliances	Required		
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	N/R		
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	N/R		
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	2		
	•	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)	N/R		
•	•	3.6-3.6.9	Clean Workroom or Clean Supply Room *Clean and soiled rooms must be separate	Required*		
•	•	3.6-3.6.9.1(1), 3.6-3.6.9.2	Work surface(s) *Not required at clean supply	Required*		
•	•	3.6-3.6.9.1(2), 3.6-3.6.9.2	Hand-washing station *Not required at clean supply	Required*		
•	•	3.6-3.6.9.1(3)	Clean and sterile supply storage	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	4		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	N/R		
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No		
	•	ASHRAE 7.1	Relative Humidity (%)	Max 60		
	•	ASHRAE 7.1	Design Temperature(*F)	72-78		
•	•	3.6-3.6.10	Soiled Workroom *Clean and Soiled Rooms Must Be Separate	Required*		
•	•	3.6-3.6.10.1	Hand-washing station	Required		
•	•	3.6-3.6.10.2	Flushing-rim clinical sink with bedpan washer	Required		
•	•	3.6-3.6.10.3	Work counter	Required		
•	•	3.6-3.6.10.4	Storage cabinets	Required		
•	•	3.6-3.6.10.5	Space for covered containers	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		

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	•	ASHRAE 7.1	Relative Humidity (%)	N/R		
	•	ASHRAE 7.1	Design Temperature(°F)	N/R		
•	•	3.6-3.6.11.1	Stretcher and Wheelchair Storage – out of direct line of travel	Required		
3.6-3.7 Support Areas for Staff						
•	•	3.6-3.7.1	Staff Lounge	Required		
•	•	3.6-3.7.1	Lockers	Required		
•	•	3.6-3.7.1	Toilet	Required		
•	•	3.6-3.7.1	Hand-washing stations	Required		
•	•	3.6-3.7.2	Staff Toilet Room *Immediately accessible to nurse station	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		
3.6-3.8 Support Areas for Patients						
•	•	3.6-3.8.1	Waiting Area	Required		
•	•	3.6-3.8.1.1	Seating	Required		
•	•	3.6-3.8.1.2	Public 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	No		
	•	ASHRAE 7.1	Relative Humidity (%)	N/R		
	•	ASHRAE 7.1	Design Temperature (°F)	N/R		
•	•	3.6-3.8.1.3	Local Telephone Access	Required		
•	•	3.6-3.8.1.4	Provisions for Drinking Water	Required		
•	•	3.6-3.8.2	Patient Storage	Required		
3.6-5 General Support Facilities						
•	•	3.6-5.5, 3.1-5.5.1	Environmental Services Room	Required		
•	•	3.1-5.5.1.1	Number per floor	1		
•	•	3.1-5.5.1.2(1)	Service or floor mounted sink	Required		
•	•	3.1-5.5.1.2(2)	Storage for supplies and housekeeping equipment	Required		
•	•	3.1-5.5.1.2(3)	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		
3.6-6 Public and Administrative Areas						
3.6-6.3 Administrative Areas						

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•	•	3.6-6.3.5	Medical Records	Required		
•	•	3.1-6.3.3	General or Individual Offices	Required		
3.1-6.4 Support Areas for Staff						
•	•	3.1-6.4.2	Storage for Staff	Required		
3.6-7, 3.1-7 Design and Construction Requirements						
3.1-7.2 Architectural Details, Surfaces, And Furnishings						
•	•	3.6-7.2.2.1, 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"	
•	•			height	83.5 inches	
•	•	3.1-7.2.2.3	Doors	Width where wheeled bed stretchers are used	45.5 inches	
•	•			Width at other locations	See NFPA LSC	
•	•			Cleanable and wear resistant	Required	
•	•	3.1-7.2.3.1	Floor Finishes	Smooth transitions	Required	
•	•			Germicide/chemical resistant	Required	
•	•			Washable	Required	
•	•	3.1-7.2.3.2	Wall Finishes *only in areas of wet spray or splatter	Smooth	Required	
•	•			Germicide/chemical resistant	Required	
•	•			Monolithic	Required*	
•	•			Scrubbable	Required*	
•	•			Smooth	Required*	
•	•			Water resistant	Required*	
•	•	3.1-7.2.3.4	Ceiling Finishes	Scrubbable	Required	
•	•			Smooth/crevice free	Required	
•	•			Chemical resistant	Required	
3.6-8, 3.1-8 Building Systems						
3.1-8.2 Ventilation and Space-Conditioning Requirements						
•	•	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	
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						
•	•	Patient Room	Adjacent to:	Patient Room (wall-same floor)	45 STC	
•	•			Patient Room (floor-to-floor)	50 STC	
•	•			Corridor (with entrance)	35 STC	
•	•			Public space	50 STC	
•	•			Service area	60 STC	
•	•			MRI Room	60 STC	

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	•	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		
	•			MRI Room	60 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		
	•	Public space	Adjacent to:	MRI Room	50 STC		

END