



Healthcare at Home Exterior Annotation

Design Elements, Related Outcomes, and Design Strategies

Design Element:	Desirable Outcome:	Design Strategies:	Universal Design (U) Aging in Place (A) Healthcare at Home (H)	Reference:
Landscaping	Accessibility; ease of use	Accessible path to outside/nature/garden	U, A, H	
		Use low-maintenance shrubs and plants and avoid poisonous vegetation or vegetation that is irritating to the touch as well as plants that tend to attract stinging insects	U, A, H	National Association of Home Builders, 2016; AIA New York Design for Aging Committee, 2017
	Minimize patient stress/anxiety	Accessible path to outside/nature/garden	U, A, H	
	Patient satisfaction and comfort	Use low-maintenance shrubs and plants and avoid poisonous vegetation or vegetation that is irritating to the touch as well as plants that tend to attract stinging insects	U, A, H	National Association of Home Builders, 2016; AIA New York Design for Aging Committee, 2017
	Safety; fall/injury prevention	Accessible path to outside/nature/garden	U, A, H	
Pathways	Accessibility; ease of use	Smooth, level floor surfaces with minimal variations that allow freedom of movement, especially when navigating with mobility assistance or medical equipment	U, A, H	Parsons et al., 2006b; World Health Organization, 2007
		Minimize thresholds (less than ¼ inch vertical, or up to ½ inch beveled)	U, A, H	ADAAG, 2010
		Accessible path to outside/nature/garden	U, A, H	
		Provide handrails (1-1/4" to 2" in diameter) with a slip-resistant surface adjacent to all sloped surfaces even if the floor slope is not steep enough to require a handrail by code.	U, A, H	AIA New York Design for Aging Committee, 2017
		Provide wainscot trim that protrudes from the wall and is securely fastened to offer a frame of reference and a	U, A, H	AIA New York Design for Aging Committee, 2017



Design Element:	Desirable Outcome:	Design Strategies:	Universal Design (U) Aging in Place (A) Healthcare at Home (H)	Reference:	
		touchstone for balance for level surfaces.			
Pathways	Caregiver safety; minimize risk of physical injury	Smooth, level floor surfaces with minimal variations that allow freedom of movement, especially when navigating with mobility assistance or medical equipment	U, A, H	Parsons et al., 2006b; World Health Organization, 2007	
		Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011	
		Handrails on both sides of stairs	U, A, H	Centers for Disease Control and Prevention, 2017; National Association of Home Builders, 2016; National Research Council, 2011	
	Minimize patient stress/anxiety	Accessible path to outside/nature/garden	U, A, H		
	Minimize undue strain during recovery		Access for mail delivery (including packages) directly to the home if patient is homebound/unable to access traditional mailbox	A, H	
			Deck, patio, or balcony surfaces are no more than a half inch below interior floor level	U, A, H	National Association of Home Builders, 2016
			Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011
			Handrails on both sides of stairs	U, A, H	Centers for Disease Control and Prevention, 2017; National Association of Home Builders, 2016; National Research Council, 2011
	Safety; fall/injury prevention		Smooth, level floor surfaces with minimal variations that allow freedom of movement, especially when navigating with mobility assistance or medical equipment	U, A, H	Parsons et al., 2006b; World Health Organization, 2007
			Minimize thresholds (less than ¼ inch vertical, or up to ½ inch beveled)	U, A, H	ADAAG, 2010
			Accessible path to outside/nature/garden		



Design Element:	Desirable Outcome:	Design Strategies:	Universal Design (U) Aging in Place (A) Healthcare at Home (H)	Reference:
Pathways	Safety; fall/injury prevention	Access for mail delivery (including packages) directly to the home if patient is homebound/unable to access traditional mailbox	A, H	
		Deck, patio, or balcony surfaces are no more than a half inch below interior floor level	U, A, H	National Association of Home Builders, 2016
		Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011
		Handrails on both sides of stairs	U, A, H	Centers for Disease Control and Prevention, 2017; National Association of Home Builders, 2016; National Research Council, 2011
		Avoid glare and excessive contrast and patterns on floors, which can be perceived as or conceal actual changes in level which pose a potential trip hazard.	U, A, H	AIA New York Design for Aging Committee, 2017
		Provide handrails (1-1/4" to 2" in diameter) with a slip-resistant surface adjacent to all sloped surfaces even if the floor slope is not steep enough to require a handrail by code.	U, A, H	AIA New York Design for Aging Committee, 2017
		Provide wainscot trim that protrudes from the wall and is securely fastened to offer a frame of reference and a touchstone for balance for level surfaces.	U, A, H	AIA New York Design for Aging Committee, 2017
		Provide weather protection for exterior stairs, ramps and landings.	A, H	AIA New York Design for Aging Committee, 2017
	Safety; minimize risk of injury	Avoid glare and excessive contrast and patterns on floors, which can be perceived as or conceal actual changes in level which pose a potential trip hazard.	U, A, H	AIA New York Design for Aging Committee, 2017
		Provide handrails (1-1/4" to 2" in diameter) with a slip-resistant surface adjacent to all sloped surfaces even if the floor slope is not steep enough to require a handrail by code.	U, A, H	AIA New York Design for Aging Committee, 2017



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Pathways	Safety; minimize risk of injury	Provide wainscot trim that protrudes from the wall and is securely fastened to offer a frame of reference and a touchstone for balance for level surfaces.	U, A, H	AIA New York Design for Aging Committee, 2017
Layout (Overall)	Accessibility; ease of use	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
	Caregiver safety; minimize risk of physical injury	Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011
	Minimize patient stress/anxiety	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
	Minimize undue strain during recovery	Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011
	Psychosocial support	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
	Safety; fall/injury prevention	Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011
Flooring	Safety; fall/injury prevention	Avoid glare and excessive contrast and patterns on floors, which can be perceived as or conceal actual changes in level which pose a potential trip hazard.	U, A, H	AIA New York Design for Aging Committee, 2017
	Safety; minimize risk of injury	Avoid glare and excessive contrast and patterns on floors, which can be perceived as or conceal actual changes in level which pose a potential trip hazard.	U, A, H	AIA New York Design for Aging Committee, 2017



Design Element:	Desirable Outcome:	Design Strategies:	Universal Design (U) Aging in Place (A) Healthcare at Home (H)	Reference:
Walls	Accessibility; ease of use	Provide handrails (1-1/4" to 2" in diameter) with a slip-resistant surface adjacent to all sloped surfaces even if the floor slope is not steep enough to require a handrail by code.	U, A, H	AIA New York Design for Aging Committee, 2017
		Provide wainscot trim that protrudes from the wall and is securely fastened to offer a frame of reference and a touchstone for balance for level surfaces.	U, A, H	AIA New York Design for Aging Committee, 2017
	Caregiver safety; minimize risk of physical injury	Handrails on both sides of stairs	U, A, H	Centers for Disease Control and Prevention, 2017; National Association of Home Builders, 2016; National Research Council, 2011
	Minimize undue strain during recovery	Handrails on both sides of stairs	U, A, H	Centers for Disease Control and Prevention, 2017; National Association of Home Builders, 2016; National Research Council, 2011
	Safety; fall/injury prevention	Handrails on both sides of stairs	U, A, H	Centers for Disease Control and Prevention, 2017; National Association of Home Builders, 2016; National Research Council, 2011
		Provide handrails (1-1/4" to 2" in diameter) with a slip-resistant surface adjacent to all sloped surfaces even if the floor slope is not steep enough to require a handrail by code.	U, A, H	AIA New York Design for Aging Committee, 2017
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Design Element:	Desirable Outcome:	Design Strategies:	Universal Design (U) Aging in Place (A) Healthcare at Home (H)	Reference:
Doors	Accessibility; ease of use	At least one exterior double door to facilitate option to bring in large medical equipment that may be necessary for patient care	U, A, H	Exley & Allen, 2007
		Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
	Minimize patient stress/anxiety	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
	Psychosocial support	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
	Safety; fall/injury prevention	At least one exterior double door to facilitate option to bring in large medical equipment that may be necessary for patient care	U, A, H	Exley & Allen, 2007
Electrical	Safety; minimize risk of injury	Easily accessible fuse box and master electrical breaker for emergency shut-off	U, A, H	"Meridian at Home," 2017
		Power generators to support necessary medical equipment during power outage	U, A, H	
Lighting	Caregiver safety; minimize risk of physical injury	Flashing porch light or 911 switch in case of emergency	U, A, H	National Association of Home Builders, 2016
	Safety; fall/injury prevention	Flashing porch light or 911 switch in case of emergency	U, A, H	National Association of Home Builders, 2016
		Avoid glare and excessive contrast and patterns on floors, which can be perceived as or conceal actual changes in level which pose a potential trip hazard.	U, A, H	AIA New York Design for Aging Committee, 2017
Fixtures/Furnishings/ Appliances/Equipment/ Accessories	Accessibility; ease of use	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016



Design Element:	Desirable Outcome:	Design Strategies:	Universal Design (U) Aging in Place (A) Healthcare at Home (H)	Reference:
Fixtures/Furnishings/ Appliances/Equipment/ Accessories	Minimize patient stress/anxiety	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
	Psychosocial support	Designated space and provisions for pets (bed, built-in feeding system, outdoor access, fenced in yard, self-cleaning litter box), if appropriate	U, A, H	National Association of Home Builders, 2016
Patient Handling/ Movement Equipment	Caregiver safety; minimize risk of physical injury	Adequate space for two people to provide caregiving assistance if using hydraulic patient lift/hoist (e.g., toilet, bed, car)	U, A, H	Beer, McBride, Mitzner, & Rogers, 2014
		Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011
	Minimize undue strain during recovery	Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011
	Safety; fall/injury prevention	Adequate space for two people to provide caregiving assistance if using hydraulic patient lift/hoist (e.g., toilet, bed, car)	U, A, H	Beer, McBride, Mitzner, & Rogers, 2014)
		Adequate space to install ramps/stair lifts to accommodate changes in interior and/or exterior levels (e.g., front, side, garage entryways)	U, A, H	National Association of Home Builders, 2016; National Research Council, 2011



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