# HOUSING LIVABLITY ASSESSMENT TOOL FOR PROFESSIONALS 

A comprehensive checklist for scoring older adult housing on physical and mental wellness, safety and security, facility design, and management practices to support independence to age-in-place.

## Housing Property

## Number of Residents

Safe and Healthy -COMMUNITIES=

Number of Units

Date


INITIATIVE

## INTRODUCTION

## Overview

Safe and Healthy Communities (SHC) developed the Housing Livability Assessment Tool for Professionals (referred to as H-LAT Pro). SHC is a non-profit organization dedicated to creating and ensuring safe, healthy, sustainable, and equitable communities for all. The tool was funded by the Next50 Initiative, a foundation that promotes independence and dignity for the aging population.

The purpose of this tool is to assess and score the health and safety of existing housing properties and provide design, policy, and programming guidance to help older adults age in place.

Older adults (age 60+) can stay healthy, safe, and independent in their homes as they age, delaying or avoiding the need to relocate to an assisted living or nursing care facility. This tool supports all residents who may need to utilize a walker, wheelchair, or need vision or auditory/communication assistance, focusing on improving lighting, flooring, ADA accessibility, and visual cues that can promote safety and security.

The H-LAT Pro is designed to be user-friendly, intended for use by housing professionals, operators, and managers of housing facilities, developers, and residents. The tool is a checklist, divided into three phases constituting six main sections that focus on various aspects of housing:outdoor spaces; fitness and wellness; social engagement and education opportunities; common areas and entrances; inside apartment; and management and operations of housing property. Instructions on how to use the tool are provided in the following sections. For brevity and specificity, H-LAT Pro focuses on the housing property and does not include an assessment of nearby community amenities.

## Relevance

The demographics of the U.S. are shifting, necessitating the development of housing that adequately accommodates the aging population. According to 2030 U.S. population projections, Americans age 65+ will outnumber children for the first time in history, accounting for 20 percent of the population. ${ }^{1}$ Older adults are a vulnerable population due to the physical and cognitive changes associated with aging. Each year, a quarter of Americans ages 65+ fall, with one in five falls (22\%) causing serious injury that threatens their independence. ${ }^{2,3}$ The cost of falls in older adults is not only their health and independence, but also the significant medical expenses to society that total nearly $\$ 51$ billion per year. ${ }^{4}$ Thus, living environments are integral to maintaining the health, safety, quality of life, and independence of older adults. To support aging adults, there is a need for universally designed homes, social engagement, enriching environments, physical activity, and an overall sense of safety to age successfully and thrive. ${ }^{4}$ Research indicates environments specifically designed to support older adults can be the difference between rapid age-related decline, and a longer, healthier life. Older adults who remain active and engaged are more likely to enjoy independence, experience enhanced physical and mental well- being, and have a greater quality of life. ${ }^{5}$

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## Indicators

The tool's indicators (design features, policies and programs) were developed from more than 20 academic and professional resources including the Americans with Disabilities Act (ADA) requirements, AARP Home Fit Guide, U.S. Department of Housing and Urban Development (HUD) policies, Universal Design principles, Aging in Place Enterprise Green Communities Tool, AARP 8 Domains of Livability, and numerous published research articles related to healthy and safe housing design for older adults. Not all ADA requirements are included in this tool because some standards were too detailed to be effectively incorporated without sacrificing ease-ofuse. Each indicator includes a hyperlink to the data source if greater detail is needed.

Several of the indicators were also developed after SHC conducted more than 70 interviews of residents and a few housing authority staff, visited facilities, and pilot tested the tool in housing authority properties in the U.S. The below icons are marked with indicators throughout the document with the different indicators they pertain to. Icons are included for 1) data collected from interviews, 2) meeting the requirements for visitability, and 3) have design elements to increase energy efficiency. Phase 2, Throughout Housing Facility and Within Apartments, is especially useful for housing developers.


Key Informant Interviews: Developed based on feedback from mostly residents or housing property staff


Visitability: Measures that make it easier for people with disabilities to visit the housing property


Energy Efficiency: Can aid in the reduction of energy use and its associated costs at the housing property

## Short Glossary

## Aging in Place

Ability to live in one's own home and community safely, independently, and comfortably, regardless of age, income, or ability level.

## Health

A state of physical, mental, and social well-being and not merely the absence of disease and infirmity.

## Universal Design

Design of products and environments are usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.

## ADA Compliant

Standards that promote accessible environments for people with disabilities, outlining the physical requirements of a building (including ramps, accessible doors, signage for persons who are blind or experience low vision, etc.). In September 2010, the Department of Justice (DOJ) published updates to the Americans with Disabilities Act (ADA). ADA standards apply to commercial and public entities that have "places of public accommodation." For an entity to be ADA compliant, they need to ensure that public spaces and "electronic and information technology" are accessible to people with disabilities, and often need to provide accommodations to do so.

## Visitability

Design standards for housing that allow for anyone who uses a wheelchair or other mobility device to visit a home. To meet the three standard visitability requirements, a home/housing facility has at least one zero-step entrance, doors with 32 inches of clear passage space, and one bathroom on the main floor you can get into in a wheelchair.

## Energy Efficient

Design interventions aimed at reducing or preserving the amount of energy required to provide products and services, e.g. thicker wall insulation or doublepane windows use less heating and cooling energy. Buying energy-efficient appliances (e.g., ENERGY STAR) is another common intervention used to preserve energy.


## INSTRUCTIONS

This tool is segmented into three phases: 1) Outdoor Space, Fitness \& Wellness, Social Engagement \&Education Opportunities; 2) Throughout Housing Facility and Within Apartments; and 3) Management \& Operations During each phase, the assessor/evaluator will go through a checklist of indicators and rate each by scoring yes, no, or not applicable (N/A). At the end of each section, sum and record the score, marking how many points were in each section. At the end of the assessment, tally the total number of points possible for all sections. The following percentage points indicate the final score for the tool:

| Bronze | Silver | Gold | Platinum |
| :---: | :---: | :---: | :---: |
| $0-39 \%$ | $40-59 \%$ | $60-79 \%$ | $80-100 \%$ |

To begin, either print out this document or complete the tool on a computer or tablet. The assessment may differ based on whether it is used at an existing property or future property [see below for specific directions for both].

This tool can be used for both existing and future housing facilities:

## For Existing Housing Properties

Begin the assessment by walking through and around the housing property and checking either yes, no/unsure, or not applicable (N/A) for each element/indicator that is listed in each section. Each indicator only gets one check by it. At the end of each section, add up the total for that section.

## For Future Housing Properties

Begin the assessment by gathering all relevant data, plans, and resources related to the design and development of the new/future housing property. Then, go through one section at a time to check either yes, no/not sure, or N/A for each element that is listed

Bonus: Some extra indicators are provided at the end of some sections. These indicators are scored in the same way as those mentioned above and adds one point to the total housing property score (+1).

## Checklist Rating System

Each section has an indicator listed with three options next to it. The three options that you can mark are below.

$\square$
Yes: checking yes means that the property does have this feature and adds one point to the facilities total score ( +1 ). If this feature exists on the property but could be expanded or improved, still check yes, but add a note in the comments section at the beginning of the section.

No/Unsure: checking no means that the property does not have this feature, or if unsure the housing property has this feature. No/Unsure does not change the total property score (0).

Not applicable (N/A): checking N/A indicates that this element is not related or relevantbecause that feature is not part of the housing design (for example, not having a tub in the units, which can be safer but there are indicators that address improving safety with tubs); checking an indicator as not being applicable will reduce the overall total possible points, not the total points for the property but the total number of indicators (denominator). N/A ensures that a property is not docked points for certain features (-1). N/A should be sparingly used (not having a common room is not better for residents so N/A would not apply).

## Phase 1:

Outdoors, Wellness \& Social
Engagement

## Section A: OUTDOOR SPACES/PROPERTY GROUNDS

|  |  | No/ |
| :--- | :--- | :--- | :--- | :--- |
| Unsure |  |  | N/A


| Pathways |  |  |  |
| :---: | :---: | :---: | :---: |
| Paving is non-skid, non-glare (e.g. colored concrete) |  |  |  |
| Handrails along walkways with slope or right angles |  |  |  |
| Walkways have color/texture contrast to indicate change in surface levels (e.g. edges of pathway or ramps) |  |  |  |
| Walkways are at least 60 inches wide to allow for two wheelchairs to pass |  |  |  |
| Paving of walkways are level and easy for mobility devices to move on |  |  |  |
| Pathways are lined with light sources (e.g. shorter bollards or lights embedded in sidewalk) |  |  |  |
| Garden/Plants |  |  |  |
| Horticultural therapy/gardening area |  |  |  |
| Raised garden beds are 32" apart from one another for wheelchair access |  |  |  |
| Raised garden beds are a minimum of 36 inches tall and at varying heights from ground, 3 to 4 feet wide |  |  |  |
| Abundance of greenery with diverse mix of plants and trees that encourage tactile and sensory engagement, varying heights for opportunities for engagement |  |  |  |
| Trees that provide shade (e.g. Oak or Aspen) |  |  |  |
| Abundant flowers with high saturated colors like red, orange and yellow for increased visibility for aging eyes (N/A when not in season) |  |  |  |
| Plants are selected for noise abatement, if needed (e.g. broadleaf evergreens such as spruces, pines and hollies, deciduous shrubs, and conifers) |  |  |  |
| Low maintenance and low water shrubs and plants (e.g. Silvery Leadplant, Mountain Mahogany) |  |  |  |
| 70\% lush garden to 30\% hardscape (man-made structures) |  |  |  |
| Plants and accessories to attract wildlife (e.g. birdfeeders) |  |  |  |
| No toxic plants present (e.g. chokecherry, poison ivy) |  |  |  |
| Kiosk/Signage near garden with gardening instructions |  |  |  |
| Garden irrigation system is installed and functional |  |  |  |
| Shed for adaptable gardening tools and nearby hose connection (e.g. tools with wide handles and longer reach) |  |  |  |
| Garden is visible from indoor seating areas to provide eyes on the garden for safety and encourage others to garden |  |  |  |


| Parking Lot |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Parking lot is landscaped with shade trees to shelter cars, people, and pavement | $\square$ | $\square$ | $\square$ |
| For every 25 parking spots, there is at least 1 accessible parking spot that does not <br> exceed 200 feet from an accessible entrance | $\square$ | $\square$ | $\square$ |
| 1 of every 6 accessible parking spaces is at least 11 feet wide to ensure that it is "van- <br> accessible" | $\square$ | $\square$ | $\square$ |
| Access aisles (space adjacent to the vehicular route that can accommodate a <br> wheelchair lift with a vertical clearance) are at least 5 feet wide to provide enough <br> clearance between the accessible spot and another parking space or sidewalk | $\square$ | $\square$ | $\square$ |
| Accessible parking spaces are clearly marked with surface paint and signage | $\square$ | $\square$ | $\square$ |
| Accessible parking spaces are closest to main entrance with accessible pathway | $\square$ | $\square$ |  |
| Curb cuts are present to facilitate wheelchair access to entrance | $\square$ | $\square$ |  |
| Wheeled carts are available to carry heavier items to apartments | $\square$ | $\square$ |  |
| Light posts are 50 feet apart for luminaire uniform spacing | $\square$ | $\square$ |  |

Bonus - If any of these bonus indicators are present, add them to the 'Yes' column
Bonus (+1 point): Outdoor adult playgrounds with low-impact equipment for increasing balance, flexibility, and cardiovascular fitness

Bonus (+1 point): Water feature(s) available (e.g. fountain, small pond or waterfall feature)

Bonus (+1 point): Greenhouse in the garden is maintained to provide gardening opportunities year-round

Bonus (+1 point): Bike racks are available to residents

Bonus (+1 point): Places for children to play
Bonus (+1 point): At least 1 bag of soil is provided for each interested resident for use in garden beds

Bonus (+1 point): Outdoor art and murals to invoke a sense of pride and positive impact on mental health

Bonus (+1 point): Heated parking garage


Tally the points in each category for Section A:

| Outdoor Spaces/Facility Total Points: | Total <br> Yes | Total <br> No | Total <br> N/A |
| :--- | :---: | :---: | :---: |
|  | $\square$ | $\square$ | $\square$ |

## Section B: FITNESS \& WELLNESS

|  | Yes | No/ Unsure | N/A |
| :---: | :---: | :---: | :---: |
| Fitness |  |  |  |
| $\underline{\text { Fitness }}$ classes are available on a weekly basis (e.g. tai chi $\underline{\text { dancing })}$ | , |  | $\checkmark$ |
| Low-impact recreational/team games are available (e.g. croquet, bocce ball, lawn darts, horseshoes) |  |  |  |
| Social fitness groups are available (e.g. walking group) |  |  |  |
| Indoor stairs are inviting (e.g. painted), central to use instead of elevator, and safe (e.g. handrails on both sides) |  |  |  |
| Signage is posted to educate residents about the benefits of using stairs |  |  |  |
| Information on local health agency, clinics, and other supportive services is provided on-site |  |  |  |
| Amenities for dogs (e.g. stations for dog bags) |  |  |  |
| Indoor exercise equipment (e.g. treadmills and stair climbers) |  |  |  |
| Exercise equipment has clear instructions or graphics showing proper use |  |  |  |
| Wellness |  |  |  |
| Plants are present in indoor spaces |  | $1$ |  |
| Wellness programs/classes offered weekly/monthly (e.g. painting, weight loss, smoking cessation, fall prevention) |  |  |  |
| Indoor spaces are decorated with art and pictures of nature |  |  |  |
| Bonus - If any of these bonus indicators are present, add them to the 'Yes' column |  |  |  |
| Bonus (+1 point): Pool for low-impact exercise |  |  |  |
| Bonus (+1 point): Telehealth services in private area with video monitor to communicate with healthcare provider (e.g. blood pressure, oxygen levels, mild injury assessments) |  |  |  |
| Bonus (+1 point): Health clinic on property |  |  |  |
| Bonus (+1 point): Staff to help with scheduling doctors appointments and transportation |  |  |  |

Tally the points in each category for Section B:

| Fitness and Wellness Total Points: | Total | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Yes |  |  | Total

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Residents are involved in the planning and preparation of social, fitness, and educational activities
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Tally the points in each category for Section C:

| Social Engagement and Education Opportunities Total Points: | Total <br> Yes | Total <br> No | Total <br> N/A |
| :--- | :---: | :---: | :---: |
|  | $\square$ | $\square$ | $\square$ |

## Comments:

## Phase 2:

Throughout Housing Facility and Within Apartments

## Section D: HOUSING FACILITY

|  | Yes | No/ Unsure | N/A |
| :---: | :---: | :---: | :---: |
| ENTRANCE, EXITS, AND LOBBY |  |  |  |
| Exterior walkways and entrances are well-lit |  |  |  |
| Entrance door easy to unlock, lock, open and close (i.e. no thumb- activated mechanisms) |  |  |  |
| Lever door handles |  |  |  |
| Exterior doors have secure locks that cannot accidentally lock you in or out |  |  |  |
| Front desk staff can visually see entrance lobby area for security |  |  |  |
| Step-free path from parking to facility entrance that is level |  |  |  |
| Bench or table near the entrance door for placing packages while locking or unlocking door |  |  |  |
| Secure handrails on both sides of entrances, if steps are present |  |  |  |
| Sensors for outdoor light fixtures to automatically turn lights on at dusk and off at dawn and/or when motion is detected |  |  |  |
| Visible doorbell to ring front desk is placed 36 to 48 inches high next to front door |  |  |  |
| Address numbers are large, illuminated, and visible from the street |  |  |  |
| Sensor light at exterior focusing on front-door lock |  |  |  |
| Entrances have awning for protection from elements |  |  |  |
| At least one step-free main entrance $-\frac{1}{\text { d }}$ |  |  |  |
| If no step free entrance, $\underline{\text { ramp }}$ needed (slope 12:1) |  |  |  |
| If ramps, handrails on both sides with a height of 34 to 38 inches high |  |  |  |
| An intercom system at entrances can allow visitors in $\rightarrow$ |  |  |  |
| Main entrances have push button automatic doors |  |  |  |
| Non-slip/moisture-resistant flooring in foyer and entryway (e.g. vinyl-composition tile) |  |  |  |
| Building layout information/signage is posted at entrances and each floor |  |  |  |


|  | Yes | No/ Unsure | N/A |
| :---: | :---: | :---: | :---: |
| Administrative offices are near entry with seating nearby and doors open for residents to visit |  |  |  |
| Elevator buttons in elevator lobbies and halls are centered 42 inches above floor |  |  |  |
| Light switches are between 36 and 44 inches from floor |  |  |  |
| Light switches are rocker-style, not dial or toggle switches |  |  |  |
| Installation of energy-efficient windows with Low-E glass |  |  |  |
| Windows with views of nature and that allow light to shine throughout |  |  |  |
| Stairways, Elevators, Hallways, Steps, Flooring |  |  |  |
| Sturdy handrails on at least one side of hallways (11/4-inch diameter) |  |  |  |
| Elevators can accommodate wheelchairs and emergency stretcher beds |  |  |  |
| If carpeted, floor is a neutral solid color, if patterned, the design is uniform, subtle and neutral, not busy and has no dark spots |  |  |  |
| Use distinctive/different furniture and color schemes in elevator lobby area on each floor for visual cues to reduce confusion |  |  |  |
| If carpeted floor, use low density (less than $1 / 2$-inch woven high pile), with firm pad |  |  |  |
| Contrast strips on top and bottom of stairs and steps, and the step and riser (color/ texture changes) |  |  |  |
| Non-slip adhesive strips applied to any uncarpeted steps |  |  |  |
| Contrasting paint to distinguish surfaces (e.g. edges of stairs, walls from door frames or floors) |  |  |  |
| Matte finishes for surfaces to reduce glare (e.g. floors and walls) |  |  |  |
| Light fixtures to illuminate the stairs/soft path lighting for nighttime |  |  |  |
| Sealed LED step-lights along hallway flooring in case of power failure |  |  |  |
| Large area rugs are secured to the floor with double-sided tape or non-slip mats (no scatter or throw rugs) |  |  |  |
| Hallway entrances are minimum 36 inches wide |  |  |  |
| Hallways are at least 60 inches wide |  |  |  |
| Light switches are between 36 and 44 inches from the floor |  |  |  |
| Light switches are rocker-style, not dial or toggle switches |  |  |  |
| Lever door handles $\rightarrow$ ? |  |  |  |


|  | No/ |  |  |
| :---: | :---: | :---: | :---: |
| Medical emergency response system to connect to fire, police with touch of button |  |  |  |
| COMMON AREAS |  |  |  |
| Common area is level with 36 -inch passage through and around space |  |  |  |
| Restrooms are located near common areas |  |  |  |
| Community kitchen for gatherings, cooking or nutrition classes |  |  |  |
| Coffee station for residents to interact |  |  |  |
| Partitions in common areas for noise abatement |  |  |  |
| Computer station with low-cost or free internet |  |  |  |
| Doorway thresholds do not exceed $1 / 2$-inch $-\frac{1}{\text { d }}$ |  |  |  |
| Automatic electronic defibrillators (AEDs) on each floor for nurses or staff to use |  |  |  |
| Furniture is mobile and can be moved around |  |  |  |
| Light switches are between 36 and 44 inches from floor |  |  |  |
| Light switches are rocker-style, not dial or toggle switches |  |  |  |
| Accessible seating with backs and armrests to aid individuals in standing |  |  |  |
| Lever door handles |  |  |  |
| Electrical and phone cords are secured along walls |  |  |  |
| Air temperature is set at a minimum of $65^{\circ} \mathrm{F}$ or higher |  |  |  |
| Convenient telephone access or push buttons to call for help, accommodates those with hearing or vision impairments |  |  |  |
| Easy-to-open windows from the inside for rooms above the first floor for natural lighting and views |  |  |  |
| Electrical outlets are placed 18 to 24 inches from floor |  |  |  |
| Halogen bulbs to reduce glare |  |  |  |
| Installation of energy-efficient windows with Low-E glass |  |  |  |
| Resources are provided such as games, books \& other activities |  |  |  |

Tally the points in each category for Section D:

| Housing Facility Total Points: | Total <br> Yes | Total <br> No | Total <br> N/A |
| :--- | :---: | :---: | :---: |
|  |  |  |  |

## Section E: WITHIN APARTMENT

(Guidance below is based on single-level apartments or other housing)

|  | Yes | No/ Unsure | N/A |
| :---: | :---: | :---: | :---: |
| Apartment Entrance |  |  |  |
| Entrance door has a high (60-inch) peephole |  |  |  |
| Entrance door has a low (43-inch) peephole |  |  |  |
| Apartment door has deadbolt, and secure side latch or chain |  |  |  |
| Lever door handles |  |  |  |
| Entry has a maximum $1 / 2$-inch threshold, and when over $1 / 4$-inch, is beveled on both sides |  |  |  |
| Interior doorways are at least 32 inches wide ${ }^{\text {a }}$ |  |  |  |
| Main Living Area \& Throughout Apartment |  |  |  |
| Wheelchair T-turn space is 30 by 48 inches ( 60 -inch diameter) clear of appliances, walls or furniture with spacious, open floor plan |  |  |  |
| Lamps and devices can automatically turn lights on and off at set times |  |  |  |
| Light switches are between 36 to 44 inches from floor |  |  |  |
| Light switches are rocker-style, not dial or toggle switches |  |  |  |
| Lever door handles |  |  |  |
| Hot water heaters have a maximum temperature of no higher than $120^{\circ} \mathrm{F}$ |  |  |  |
| If property has boiler room instead of water heaters, temperature sensors on faucets to monitor if water gets too hot or cold |  |  |  |
| Mechanical fresh-air ventilation, installation of air returns in all rooms |  |  |  |
| Programmable thermostats that enable different temperature settings throughout day |  |  |  |
| Thermostats are between 36 and 48 inches from floor |  |  |  |
| Air temperature set at a minimum of $65^{\circ} \mathrm{F}$ or higher |  |  |  |
| Convenient telephone access or push buttons to use that accommodates those with hearing or vision impairments |  |  |  |
| Electrical outlets are placed 18 to 24 inches from floor |  |  |  |


|  | No/ |  |  |
| :---: | :---: | :---: | :---: |
|  | Yes | Unsure | N/A |
| Installation of energy-efficient windows with Low-E glass |  |  |  |
| Electrical and phone cords are secured along wall |  |  |  |
| Plenty of easy-to-open windows from the inside with screens for rooms above first floor for natural lighting, views and fresh air |  |  |  |
| Kitchen |  |  |  |
| Lever-, touch-, pedal-, or sensor-style faucet |  |  |  |
| Sink faucet is pressure-balanced, temperature-regulated and kept at or below $120^{\circ}$, thermostatic or anti-scald controls |  |  |  |
| Task lighting (increase illuminance for sink, stove, and countertops) fil |  |  |  |
| Microwave is placed countertop level |  |  |  |
| Upper wall cabinets are mounted a maximum 48 inches above finished floor |  |  |  |
| Base cabinets are level with countertop and do not exceed $341 / 2$ inches tall from finished floor |  |  |  |
| Base cabinets are $231 / 2$ inches deep |  |  |  |
| Pantry or full-height cabinet to avoid lifting stored food into upper cabinets |  |  |  |
| Pull-down shelving within upper cabinet to avoid use of stool or step-ladder |  |  |  |
| Pull-out cabinetry or shelves beneath countertops |  |  |  |
| Lazy Susan cabinets in corner of cabinetry (turnable/rotating tray) |  |  |  |
| Open shelving for easy access to frequently used items |  |  |  |
| Easy-to-grasp D shape or loop handles on cabinets and drawers, rather than knobs |  |  |  |
| Accented stripes on edge of countertops to provide visual orientation of workspace |  |  |  |
| Work surfaces are 34 inches maximum height; adjustable work surface is minimum of 29 inches high to a maximum of 36 inches high |  |  |  |
| Seated workspace available (e.g. table, pullout work surface or removing lower cabinets) |  |  |  |
| Lightweight, easy-to-use ABC-rated fire extinguisher in an easy-to reach place in kitchen |  |  |  |
| Abundant light (ambient, accent, and natural task) |  |  |  |
| Full spectrum light bulbs to simulate daylight |  |  |  |
| Easy-to-read controls (large appliance controls with contrasting large text) |  |  |  |


|  | Yes | No/ Unsure | N/A |
| :---: | :---: | :---: | :---: |
| Appliance controls are near the front of the device at countertop height |  |  |  |
| Appliance controls are below 54 inches in height |  |  |  |
| Appliance controls have a maximum reach depth of 20 inches and a maximum high forward reach of 48 inches |  |  |  |
| Side-by-side refrigerator/freezer with ice/water dispenser on door |  |  |  |
| Side-hinged door oven or wall oven, elevated off ground |  |  |  |
| Smart sensors to remind residents to close or turn off appliances |  |  |  |
| Stove sensors to shut it off if temperature gets too hot or stove is left on for too long |  |  |  |
| Raised dishwasher with push button controls (8 to 9 inches above floor) |  |  |  |
| Electric cooktop with level burners have red warning light indicating when surface is hot |  |  |  |
| Washer and dryer are front-loading and up off floor (12 to 15 inches above floor) |  |  |  |
| Stay-cool handles on pots, pans, and implements |  |  |  |
| Energy-efficient washer and dryers, dishwashers, and refrigerators (i.e. Energy Star) |  |  |  |
| Bathroom |  |  |  |
| Shower stall only, consider no tub, to reduce injury |  |  |  |
| Main bath stand-up shower has curbless (i.e. step-free) entry or threshold no higher than $1 / 2$-inch |  |  |  |
| Main bath stand-up shower entrance is a minimum of 36 inches wide |  |  |  |
| Light in shower stall |  |  |  |
| Night light is installed/plugged in |  |  |  |
| Grab Bars in shower, bathtub, and beside toilet(s) |  |  |  |
| Grab Bars are a minimum of 42 inches long |  |  |  |
| Shower/bathtub seats/bench fold down and are permanently installed |  |  |  |
| Vanity at 32 to 34 inches with knee space, removable base cabinets if wheelchair needed and panel to protect user from pipes |  |  |  |
| Adjustable/hand-held showerheads with a 6-foot flexible hose |  |  |  |
| Shower spray unit has on/off control with a non-positive shut-off (i.e. controls flow) |  |  |  |
| Slip-resistant flooring in bathroom and/or shower |  |  |  |
| Non-slip strips in bathtub and/or shower |  |  |  |


|  | Yes | No/ Unsure | N/A |
| :---: | :---: | :---: | :---: |
| Toilet is $2 \frac{1}{2}$ inches higher than standard toilet ( 17 to 19 inches), or height- adjustable, or a toilet seat riser provided |  |  |  |
| Contrasting-color edge border on countertops |  |  |  |
| Toilet paper holder allows roll changes with one hand and continuous flow |  |  |  |
| Bathroom door has minimum 32-inch clearance width $\rightarrow$ |  |  |  |
| Bathroom door opens with lever handles |  |  |  |
| Bathroom has minimum 60-inch turnaround or other approved turnaround configuration ( 30 -inch $\times 48$-inch clear space if door opens out) |  |  |  |
| Bedroom |  |  |  |
| Closet has an adjustable hanging rod that can be moved anywhere between 20 to 54 inches on a mounted fixture with varying height slots |  |  |  |
| Adjustable height closet system with multi-level adjustable shelves |  |  |  |
| Walk-in closet has at least a 48 -inch turning radius of floor space |  |  |  |
| Lighting in closets |  |  |  |
| Visible smoke/heat detectors are within 15 feet of any bedroom |  |  |  |
| Carbon monoxide detectors are within 15 feet of each bedroom and can be heard from each room |  |  |  |
| Furniture is mobile and can be moved around |  |  |  |
| Bonus - If any of these bonus indicators are present, add them to the 'Yes' column |  |  |  |
| Bonus (+1 point): Heating, ventilation, and air conditioning (HVAC) system in each apartment |  |  |  |
| Bonus (+1 point): Touch or sound (clapping) controlled lamps |  |  |  |
| Bonus (+1 point): Bed and chair fall guards to protect against falls out of bed or chair |  |  |  |
| Bonus (+1 point): Common room computer screen has magnifying devices |  |  |  |
| Bonus (+1 point): Iris ${ }^{\text {TM }}$ Smart Hub wireless control system (thermostat, front door, alarm, individual lights) |  |  |  |
| Bonus (+1 point): Monitors that allow for staff/family to check-in on residents |  |  |  |
| Bonus (+1 point): Reminder Rosie, a voice-controlled clock and/or Alexa Amazon echo |  |  |  |
| Bonus (+1 point): House-keeping services are available to residents | , |  |  |

Bonus (+1 point): Laundry services are available to residents

Tally the points in each category for Section E:

| Within Apartment Total Points: | Total <br> Yes | Total <br> No | Total <br> N/A |
| :--- | :---: | :---: | :---: |
|  |  |  |  |

## Comments:



## Phase 3:

Management \& Operations

## Section F: MANAGEMENT \& OPERATIONS

|  | Yes | No/ Unsure | N/A |
| :---: | :---: | :---: | :---: |
| RESIDENTS' RIGHTS AND INPUT |  |  |  |
| Residents have a copy of HUD rights and responsibilities |  |  |  |
| Residents received copy of resident handbook |  |  |  |
| Resident Handbook is offered in several languages (i.e. Spanish) and professionally translated |  |  |  |
| Resident survey is completed at least once every 1 to 3 years |  |  |  |
| Residents know they have the right to file complaints with management, owners, or government agencies without retaliation, harassment or intimidation |  |  |  |
| Residents know they have the right to organize and participate in decisions regarding the well-being of the property and their home such as having a resident advisory council |  |  |  |
| Residents provided comment box to provide feedback anonymously |  |  |  |
| MANAGEMENT RESPONSIBILITIES |  |  |  |
| Resident manager onsite or available 24/7 |  |  |  |
| Resources for reporting elder abuse are posted |  |  |  |
| Management agents communicate with residents on all relevant issues |  |  |  |
| Cardiopulmonary resuscitation (CPR) or AEDs and first aid training provided to staff and residents yearly |  |  |  |
| Operators and managers give prompt consideration to all valid resident complaints and resolve them as quickly as possible |  |  |  |
| Has a smoke-free policy |  |  |  |
| Share information on hoarding issues with staff and residents |  |  |  |
| Offer training to staff about how to help hoarders |  |  |  |
| Continuing education classes for management and staff specific to older adults and aging |  |  |  |
| Residents received clear documentation about the fees and monthly charges |  |  |  |



|  | Yes | Unsure | N/A |
| :---: | :---: | :---: | :---: |
| Refuge areas are established for those who need extra assistance on higher floors of facility |  | $\square$ |  |
| Fire exits/escape route maps are posted throughout facility in large print size (at least 12-point font size) |  |  |  |
| Management and staff complete FEMA's online training courses |  |  |  |
| Signage and signals using sound, light, or strobe lights for emergency exiting |  |  |  |
| Water leak sensors to detect flooding in laundry room, bathroom, and kitchen |  |  |  |
| Residents have "bug out bag" with essentials prepared for few days away due to disaster |  |  |  |
| Bonus - If any of these bonus indicators are present, add them to the 'Yes' column |  |  |  |
| Bonus (+1 point): Create a lease video in different languages of what is allowed and disallowed at the proprty, etc. |  |  |  |
| Bonus (+1 point): Security gate with security person to screen for those who should be on property |  |  |  |
| Bonus (+1 point): Latch on outside of apartment door or other feature so staff or other residents know if a resident has not left apartment in a while |  |  |  |

Tally the points in each category for Section F:

| Management \& Operations Total Points: | Total <br> Yes | Total <br> No | Total <br> N/A |
| :--- | :---: | :---: | :---: |
|  |  |  |  |

## Comments:

## FINAL SCORING SHEET

## Outdoor Spaces/Facility Total Points:

## Social Engagement \& Education Opportunities Total Points:

Housing Facility Total Points:

```
Place
holder
```

Within Apartment Total Points:

Management \& Operations Total Points:

| NUMERATOR | Total <br> Yes | + | Total <br> Bonus |
| :--- | :---: | :---: | :---: |


| DENOMINATOR | 259 | - | Total |
| :--- | :--- | :--- | :--- |
| N/A's |  |  |  |


| TOTAL SCORE | Nerator |  | Denominator |
| :--- | :--- | :--- | :--- |

Sum all the totals calculated in Sections A-E, to fill the bolded boxes above. The first box will be the numerator and the second box will be the denominator. Now calculate the overall by dividing the numerator over denominator (for example, 254/259) to get a percentage and final score!

To improve your score, go back to the section where you were missing the most points and create an action plan to address shortcomings.

| Bronze | Silver | Gold | Platinum |
| :---: | :---: | :---: | :---: |
| $0-39 \%$ | $40-59 \%$ | $60-79 \%$ | $80-100 \%$ |

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[^0]:    ${ }^{1}$ U.S. Census Bureau (2017). Retrieved from https://www.census.gov/newsroom/press-releases/2018/cb18-41-population-projections.html
    ${ }^{2}$ Centers for Disease Control (2018). https://www.cdc.gov/homeandrecreationalsafety/falls/data/falls-by-state.html
    ${ }^{3}$ University of Rochester Medical Center (2010). https://www.urmc.rochester.edu/news/story/for-elderly-even-short-falls-can-be-deadly
    ${ }^{4}$ Centers for Disease Control (2018). https://www.cdc.gov/homeandrecreationalsafety/falls/data/falls-by-state.html
    ${ }^{5}$ Health Impact Project (2015). https://www.pewtrusts.org/~/media/assets/2015/06/connecting-public-housing-and-health.pdf?la=en

