

















Supplementary Materials B-3

Note that these pictures are not to scale.

Furniture category	Description, Example images	
Dining table	<p>Any flat surface with non-foldable legs, leg(s) taller than the seat of a dining chair and has the circumference/edge length to accommodate more than one dining chair.</p> <div>   </div> <p>Ashley Global Retail, LLC (2023e) Ashley Global Retail, LLC (2023l)</p>	
End table	<p>Any flat surface that has less than three shelves or drawers and a surface that is large enough to hold one table lamp (around the surface area of one dining chair seat), including those with foldable legs.</p> <p>Although some end tables are sold with more than two shelves or drawers, this size was chosen for consistency.</p> <div>   </div> <p>Williams-Sonoma Inc. (2023b) Ashley Global Retail, LLC (2023i)</p>	
Coffee table	<p>Same height requirements as an end table, with the additional width requirement of less than two adjacent drawers or shelves. The surface is larger than that of an end table. Includes TV consoles and sideboards. These pieces may sometimes be interchangeable in practice and indistinguishable from each other in use.</p> <div>   </div> <p>Wayfair (2023c) Williams-Sonoma Inc. (2023d)</p>	




Desk	<p>Same height requirement of a dining table but accommodates only one chair (due to leg arrangement, placement in room, additional drawers or other accessories, etc.). Any L-shaped desks were counted as one unit.</p>	
	 <p>Wayfair (2023b)</p>	 <p>Inter IKEA Systems B.V. (2023c)</p>
Couch	<p>An upholstered chair with more than two seats adjacent to one another and with back support. Also known as a sofa. Any L-shaped or sectional couches were counted as one unit. It should be noted that some couches come with matching ottomans, and they should be observed closely for any separate units.</p>	
	 <p>Ashley Global Retail, LLC (2023a)</p>	 <p>Ashley Global Retail, LLC (2023k)</p>
Upholstered chair	<p>A chair with upholstery on the back and seat, with a leg-to-back ratio of around 1:1. These chairs only have the width for one seat.</p>	
	 <p>Wayfair (2023g)</p>	 <p>Williams-Sonoma Inc. (2023a)</p>

Dining chair	A chair with a back and leg(s) that have slightly larger leg-to-back ratio than an “upholstered chair”. The chair can be upholstered or not upholstered. Alternatively, a bench (with or without a back) placed indoors. Benches and banquettes are often sold in dining sets or in the dining furniture category.	
	 <p>Wayfair (2023h)</p>	 <p>Target Brands, Inc. (2023f)</p>
Office chair	A chair with a back and leg(s) on wheels.	
	 <p>Target Brands, Inc. (2023j)</p>	 <p>Wayfair (2023f)</p>
Stool	A chair with or without a back, and a leg-to-cushion height ratio of more than 1.	
	 <p>Wayfair (2023e)</p>	 <p>Ashley Global Retail, LLC (2023d)</p>

Ottoman	<p>An upholstered seat without a back and with any seat dimensions, but a leg-to-cushion height ratio less than one.</p> <p>This category includes adult-sized beanbag chairs and poufs, as well as upholstered benches.</p>	 <p>Wayfair (2023a)</p>	 <p>Williams-Sonoma Inc. (2023c)</p>
Single bedframe	<p>A bedframe that seems to have a width that accommodate less than two adjacent full-sized pillows. This includes cribs.</p> <p>Alternatively, bunkbeds are counted as two single bedframes if there are indeed two beds stacked on top of one another. This method was chosen, as some bunk beds are made by stacking two single beds on top of one another.</p>	 <p>Wayfair (2023d)</p>	 <p>Mattress Firm, Inc. (2023)</p>
Double bedframe	<p>A bedframe that seems to have a width that accommodates more than two adjacent full-sized pillows.</p>	 <p>Wayfair (2023i)</p>	 <p>Ashley Global Retail, LLC (2023j)</p>






Shelf	<p>A structure with no front covering or a glass covering that has more than two shelves, either in the horizontal or vertical dimensions. This can be any height. This category includes furniture pieces such as larger sideboards if less than half of the front is covered.</p>	
	 <p>Ashley Global Retail, LLC (2023h)</p>	 <p>Williams-Sonoma Inc. (2023d)</p>
Dresser	<p>A structure with two or more drawers that can be pulled out, either in the horizontal or vertical dimensions. Its height may be at or below average human height. If the structure is larger than an end or coffee table, it is considered a dresser at any height if it has only drawers on its face side.</p>	
	 <p>Inter IKEA Systems B.V. (2023e)</p>	 <p>Inter IKEA Systems, B.V. (2023d)</p>
Wardrobe	<p>A structure that seems to be at or above average human height that is fully covered with a material other than glass or fabric. It may have some drawers. This category includes larger sideboards if more than half of the front is covered.</p>	
	 <p>Inter IKEA Systems B.V. (2023a)</p>	 <p>Inter IKEA Systems B.V. (2023f)</p>

Plastic storage unit	Any shelving or drawers, the main composition of which seems to be plastic. Smaller items that can fit on a bathroom counter or desk are not counted.	
	 <p>ULINE (n.d.-a)</p>	 <p>ULINE (n.d.-c)</p>
Metal storage unit	Any shelving or drawers, the main composition of which seems to be metal. Smaller items that can fit on a bathroom counter or desk are not counted.	
	 <p>Inter IKEA Systems, B.V. (2023b)</p>	 <p>Ashley Global Retail, LLC (2023f)</p>
Folding table	A table that is larger than an end table, whose legs appear to be foldable. Folding TV trays are counted as end tables.	
	 <p>ULINE (n.d.-b)</p>	 <p>Target Brands, Inc. (2023e)</p>

Patio chair	A chair with or without a back and the width of a single seat, for outdoor or semi-outdoor use, such as with screened-in porches. This includes porch swings that are able to seat only one.	
	 <p>Target Brands, Inc. (2023h)</p>	 <p>Ashley Global Retail, LLC (2023g)</p>
Patio table	A table of any size that is placed outside the home or in a sunroom or solarium. The surface must be solid (i.e., not upholstered). Picnic tables with benches were counted as one patio table and two separate benches.	
	 <p>Target Brands, Inc. (2023d)</p>	 <p>Ashley Global Retail, LLC (2023c)</p>
Patio umbrella	An umbrella that stands by itself or is placed on top of a patio table, outdoors.	
	 <p>Ashley Global Retail, LLC (2023b)</p>	 <p>Target Brands, Inc. (2023c)</p>


Bench	<p>Any chair that has the width of more than one seat and is placed outdoors. This includes porch swings with the ability to seat more than one. Please see “Patio table” for notes on picnic tables.</p>
	<div><p>Target Brands, Inc. (2023b)</p></div> <div><p>Home Depot (2023a)</p></div>

Recreational “furniture” products

Product	Description / Example images
Swing set	<p>A structure that is placed outdoors than accommodates more than one swing. (For example, a swing tied to a tree does not count as a swing set. However, a structure with one swing and a slide would.)</p> <div>  <p>Target Brands, Inc. (2023k)</p> </div> <div>  <p>Home Depot (2023b)</p> </div>
Trampoline	<p>A trampoline that should accommodate more than one person. This excludes mini trampolines, often used for exercise. Mini trampolines are put away and excluded for pictures due to cluttering.</p> <div>  <p>Home Depot (2023c)</p> </div>
Recreational table	<p>Any table that seems to be used primarily for recreation and games. (e.g., It has handles and figures for foosball, or felt for pool.)</p> <div>  <p>Target Brands, Inc. (2023g)</p> </div> <div>  <p>Target Brands, Inc. (2023a)</p> </div>

Yukiko Ikeda, s2884402, 5665736

Leiden University x TU Delft, MSc Industrial Ecology thesis

Basketball hoop	<p>Any basketball with a stand and weighed down or buried base.</p> <div></div> <p>Target Brands, Inc. (2023i)</p>
----------------------------	---

References

- Ashley Global Retail, LLC. (2023a). *Cambri 2-Piece Sectional with Chaise*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/cambri_2-piece_sectional_with_chaise/APK-92801-R2.html?cgid=sectional-sofas#srule=Prices%3A%20Low%20to%20High&start=48&sz=48.
- Ashley Global Retail, LLC. (2023b). *CorLiving 9' Outdoor Square Tilting Patio Umbrella*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/corliving_9_outdoor_square_tilting_patio_umbrella/P600003181.html?cgid=outdoor-umbrellas.
- Ashley Global Retail, LLC. (2023c). *Easy Isle Outdoor Multi-Use Table*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/easy_isle_multi-use_table/P455-625.html?cgid=outdoor-dining-tables.
- Ashley Global Retail, LLC. (2023d). *Euro Style Rasmus-B Bar Stool (Set of 2)*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/euro_style_rasmus-b_bar_stool_with_dark_gray_leatherette_and_light_gray_fabric_with_matte_black_legs_-_set_of_2/D600003422.html?cgid=bar-stools.
- Ashley Global Retail, LLC. (2023e). *Landon Dining Table*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/landon_dining_table/D600004748.html?cgid=dining-tables.
- Ashley Global Retail, LLC. (2023f). *Manhattan Comfort Fortress Garage Cabinet*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/manhattan_comfort_fortress_garage_cabinet/A600021481.html?cgid=garage-all#srule=Prices%3A%20Low%20to%20High&start=64&sz=48.
- Ashley Global Retail, LLC. (2023g). *Nuu Garden Outdoor Textilene Chaise Lounger*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/nuu_garden_outdoor_textilene_chaise_lounger/P600003849.html?cgid=outdoor-lounge-chairs.
- Ashley Global Retail, LLC. (2023h). *Pasir 3-Tier Open Shelf Bookcase*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/pasir_luder_31.5_3-tier_open_shelf_bookcase/H600000529.html?cgid=bookcases.
- Ashley Global Retail, LLC. (2023i). *Poshpollen Melton C-Shaped End Table*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/poshpollen_melton_c-shaped_end_table/T600001810.html

Yukiko Ikeda, s2884402, 5665736

Leiden University x TU Delft, MSc Industrial Ecology thesis

Ashley Global Retail, LLC. (2023j). *Sommerford King Panel Storage Bed*. Ashley Home. Retrieved July 14, 2023, from

https://www.ashleyfurniture.com/p/sommerford_king_panel_bed_with_storage/APK-B775-KSB.html?cgid=beds.

Ashley Global Retail, LLC. (2023k). *Upholstered 3 Seater Sofa*. Ashley Home. Retrieved July 14, 2023, from https://www.ashleyfurniture.com/p/bayonne_modern_upholstered_3-seater_sofa/U600000787.html?cgid=sofas-and-couches.

Ashley Global Retail, LLC. (2023l). *Vasagle Bar Table*. Ashley Home. Retrieved July 14, 2023, from

https://www.ashleyfurniture.com/p/vasagle_bar_table/D600007792.html?cgid=dining-tables.

Home Depot. (2023a). *Braga Dark Gray Wood Outdoor Backless Bench*. Retrieved July 14, 2023, from <https://www.homedepot.com/p/Cambridge-Casual-Braga-Dark-Gray-Wood-Outdoor-Backless-Bench-140817-HW-DG-XX-XX/318443225?ITC=AUC-202015-23-12142>.

Home Depot. (2023b). *DYI Outing III Wooden Outdoor Playset with Tarp Roof, Rock Wall, Wave Slide, Swings, and Backyard Swing Set Accessories*. Retrieved July 14, 2023, from

<https://www.homedepot.com/p/Gorilla-Playsets-DYI-Outing-III-Wooden-Outdoor-Playset-with-Tarp-Roof-Rock-Wall-Wave-Slide-Swings-and-Backyard-Swing-Set-Accessories-01-0001/202188100>

Home Depot. (2023c). *Skywalker Trampolines 15 ft. Round Trampoline with Enclosure in Blue*. Retrieved July 14, 2023, from <https://www.homedepot.com/p/Skywalker-Trampolines-15-ft-Round-Trampoline-with-Enclosure-in-Blue-SWTC1500/312900195>.

Inter IKEA Systems B.V. (2023a). *BRIMNES*. IKEA. Retrieved July 14, 2023, from

<https://www.ikea.com/us/en/p/brimnes-wardrobe-with-3-doors-white-10394718/>

Inter IKEA Systems B.V. (2023b). *BROR*. IKEA. Retrieved July 14, 2023, from

<https://www.ikea.com/us/en/p/bror-shelving-unit-black-s09471741/>.

Inter IKEA Systems B.V. (2023c). *IDANÄS*. IKEA. Retrieved July 14, 2023, from

<https://www.ikea.com/us/en/p/idanaes-drop-leaf-table-white-00487652/>.

Inter IKEA Systems B.V. (2023d). *IDANÄS*. IKEA. Retrieved July 14, 2023, from

<https://www.ikea.com/us/en/p/idanaes-6-drawer-dresser-dark-brown-stained-50458713/>

Inter IKEA Systems B.V. (2023e). *LOTE*. IKEA. Retrieved July 14, 2023, from

<https://www.ikea.com/us/en/p/lote-3-drawer-chest-white-50293722/>.

Inter IKEA Systems B.V. (2023f). *PAX/GRIMO*. IKEA. Retrieved July 14, 2023, from

<https://www.ikea.com/us/en/p/pax-grimo-wardrobe-combination-white-grimo-gray-s29386619/>.

Yukiko Ikeda, s2884402, 5665736

Leiden University x TU Delft, MSc Industrial Ecology thesis

Mattress Firm, Inc. (2023). *Little Seeds Monarch Hill Haven Metal Loft Bed*. MattressFirm.com. Retrieved July 14, 2023, from <https://www.mattressfirm.com/monarch-hill-haven-metal-loft-bed/5637149071.p?variantid=5637152049>.

Target Brands, Inc. (2023a). *American Legend 84" Kirkwood Billiard Table*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/american-legend-84-34-kirkwood-billiard-table/-/A-81555517#lnk=sametab>.

Target Brands, Inc. (2023b). *Costway 2-Person Metal Outdoor Porch Swing Hanging Patio Bench 485 Lbs Capacity Black\Brown*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/costway-2-person-metal-outdoor-porch-swing-hanging-patio-bench-485-lbs-capacity-black-brown/-/A-87128798?preselect=87128797#lnk=sametab>.

Target Brands, Inc. (2023c). *Costway 10 FT Patio Offset Umbrella w/8 Ribs Cross Base Tilt*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/costway-10-ft-patio-offset-umbrella-w-8-ribs-cross-base-tilt/-/A-84846259?preselect=84846260#lnk=sametab>

Target Brands, Inc. (2023d). *Costway 32" Outdoor Patio Round Table Tempered Glass Top*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/costway-32-outdoor-patio-round-table-tempered-glass-top/-/A-85994095>.

Target Brands, Inc. (2023e). *Flash Furniture 6-Foot High Pressure Mahogany Laminate Folding Banquet Table*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/flash-furniture-6-foot-high-pressure-mahogany-laminate-folding-banquet-table/-/A-79637203#lnk=sametab>

Target Brands, Inc. (2023f). *Ladder Back Chair Seat Black - Riverstone Furniture Collection*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/ladder-back-chair-seat-black-riverstone-furniture-collection/-/A-53586818#lnk=sametab>.

Target Brands, Inc. (2023g). *Park and Sun Mini Folding Tennis Table, 30 x 60 Inches, 2 Paddles and 2 Balls*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/park-and-sun-mini-folding-tennis-table-30-x-60-inches-2-paddles-and-2-balls/-/A-76820861#lnk=sametab>.

Target Brands, Inc. (2023h). *Sling Stacking Patio Chair - Room Essentials*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/sling-stacking-patio-chair-room-essentials/-/A-84156017?preselect=85405204#lnk=sametab>.

Target Brands, Inc. (2023i). *Spalding 54" Acrylic Portable Basketball Hoop*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/spalding-54-34-acrylic-portable-basketball-hoop/-/A-11450048#lnk=sametab>.

Target Brands, Inc. (2023j). *Task Chair Black - Room Essentials*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/task-chair-black-room-essentials-8482/-/A-14521109#lnk=sametab>.

Yukiko Ikeda, s2884402, 5665736

Leiden University x TU Delft, MSc Industrial Ecology thesis

Target Brands, Inc. (2023k). *The Swing Company Yonkers Metal Swing Set with Glide Ride Trapeze Bar and 5' Slide*. Target.com. Retrieved July 14, 2023, from <https://www.target.com/p/the-swing-company-yonkers-metal-swing-set-with-glide-ride-trapeze-bar-and-5-39-slide/-/A-88007783#lnk=sametab>.

ULINE. (n.d.-a). *3-Drawer Cart - 15 x 22 x 24*. Retrieved July 11, 2023, from <https://www.uline.com/Product/Detail/S-19903/Sterilite-Storage-Boxes/3-Drawer-Cart-15-x-22-x-24>

ULINE. (n.d.-b). *Economy Folding Table - 48 x 24*. Retrieved July 11, 2023, from <https://www.uline.com/Product/Detail/H-4208FOL-W/Folding-Tables-and-Chairs/Economy-Folding-Table-48-x-24-White?model=H-4208FOL-W&RootChecked=yes>

ULINE. (n.d.-c). *Vented Plastic Shelving - 36 x 18 x 74*. Retrieved July 11, 2023, from <https://www.uline.com/Product/Detail/H-6205/Industrial-Wire-Shelving/Vented-Plastic-Shelving-36-x-18-x-74>

Wayfair LLC. (2023a). *Abbyss Upholstered Pouf*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/dakota-fields-cole-and-gray-bohemian-fabric-pouf-w008892200.html..>

Wayfair LLC. (2023b). *Auniya 60" Desk*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/wade-logan-auniya-60-desk-w010959152.html?piid=1458906359>.

Wayfair LLC. (2023c). *Colusa Coffee Table*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/mercer41-colusa-floor-shelf-coffee-table-with-storage-w100093940.html?#14o27h7m8fpi-2>.

Wayfair LLC. (2023d). *Dura 16" Platform Bed*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/alwyn-home-dura-steel-platform-bed-w005485459.html?piid=618655695>.

Wayfair LLC. (2023e). *Emanuela 25" Counter Stool*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/east-urban-home-emanuela-25-counter-stool-ebic6976.html>.

Wayfair LLC. (2023f). *Executive Chair*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/triune-business-furniture-executive-chair-trbf1086.html>.

Wayfair LLC. (2023g). *Nichole Upholstered Accent Chair*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/arlmont-co-nichole-26-w-butterfly-chair-frpk1724.html>.

Wayfair LLC. (2023h). *Romford Bench*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/beachcrest-home-romford-bench-w007984453.html>.

Yukiko Ikeda, s2884402, 5665736

Leiden University x TU Delft, MSc Industrial Ecology thesis

Wayfair LLC. (2023i). *SunPrairie 14" Wire-Grid Bed Frame*. Wayfair. Retrieved July 14, 2023, from <https://www.wayfair.com/furniture/pdp/the-twillery-co-sunprairie-himmelmann-14-metal-smartbase-tool-free-assembly-mattress-foundation-with-4-brackets-and-bed-skirt-6-piece-set-yshu1191.html?piid=69793838>.

Williams-Sonoma Inc. (2023a). *Addison Recliner*. Williams-Sonoma Home. Retrieved July 14, 2023, from <https://www.williams-sonoma.com/products/addison-recliner-upholstery-no-nailhead/?pkey=cfurniture-all-living-room>.

Williams-Sonoma Inc. (2023b). *Campaign One-Drawer Open Nightstand*. Williams-Sonoma Home. Retrieved July 14, 2023, from <https://www.williams-sonoma.com/products/campaign-open-nightstand/?pkey=cnightstands-dressers>.

Williams-Sonoma Inc. (2023c). *Fairfax Leather Large Ottoman, Turned Leg with Tufted Top*. Williams-Sonoma Home. Retrieved July 14, 2023, from <https://www.williams-sonoma.com/products/fairfax-large-ottoman-turned-leg-tufted-top-leather/?pkey=cottomans-bench-stool>.

Williams-Sonoma, Inc. (2023). *Faux Bone Rectangular Coffee Table, 56"*. Williams-Sonoma Home. Retrieved July 14, 2023, from <https://www.williams-sonoma.com/products/faux-bone-rectangular-coffee-table/?pkey=ccoffee-end-console-table>.

Williams-Sonoma Inc. (2023d). *Industrial Modular Bookshelf (33")*. West Elm. Retrieved July 14, 2023, from https://www.westelm.com/products/rustic-modular-32-bookshelf-h963/?cm_src=WsiAitc&recstrat=AITC-SBF%7CAITC-GRP-AFF-QNT-SBF.