

Assigned Universal Design Feature: Cabinet and Door Handles

Why this is considered to be Universal Design:

The handles that have been selected promote independent access for all individuals. These products are aesthetically appealing, relatively low cost, and are simple to install. Increasing the size of the door handle decreases the grip strength and dexterity required to manipulate the door. The larger size of the handles enables individuals with low vision to identify and use the pulls. Isolated finger movement, supination and pronation are not required use the device.

Photograph 1:

Price: \$2.84

Retail Source (Name, address): Lowes Home Improvement Center
2345 Silver Dr. Columbus, OH 43211

Manufacturer: Belwith

Model Number: P33-CLX

Color, Material and Other Descriptive Information:

Chrome 4 ¾ inch D-Shape handles

Is item in stock, custom order? Yes

Brief description of installation (who should install?)

Can be independently installed by home resident or friend

Special installation instruction (height of product, reinforcement needed, etc.):

Tools include screwdriver, drill, tape measure, pencil, 16 4 ¾ D-Shaped handles and step stool.

Remove cabinet knobs and drill holes for pulls. Install new pulls using screws and screwdriver.

Approximate cost of installation:

Free

Total Cost of feature Change (product + installation)

\$2.84 * 16= \$45.44

Photograph 2:

Price: \$41.98



Key Entry Lever

Retail Source (Name, address):

Lowes 2345 Silver Dr. Columbus, Ohio 43211

Manufacturer: Schlage

Model Number: F51VA CC505LH

Color, Material and Other Descriptive Information:

Color-Gold, Anti-tarnish Finish

Is item in stock, custom order? In Stock

Brief description of installation (who should install?)

Household resident or friend can install the part.

Special installation instruction (height of product, reinforcement needed, etc.):

Remove old door handle and replace with new using a screwdriver.

Approximate cost of installation:

\$0

Total Cost of feature Change (product + installation)

\$41.98

Photograph 3:

Price: \$2.98



Retail Source (Name, address): Lowes 2345 Silver Dr, Columbus OH 43211

Manufacturer: Laurey

Model Number: 41001

Color, Material and Other Descriptive Information:
3" solid brass and chrome pull; hand polished

Is item in stock, custom order? In Stock

Brief description of installation (who should install?)

Installation may be done independently by a home resident or friend.

Special installation instruction (height of product, reinforcement needed, etc.):

Remove cabinet knobs and drill holes for pulls. Install new pulls using screws and screwdriver.

Approximate cost of installation:

\$0

Total Cost of feature Change (product + installation)

$\$2.98 * 16 = \47.68



Comments:
so here it is. The D-shaped cabinet pull 4 $\frac{3}{4}$ inches.

Picture 1 was not able to be displayed in the box,

Assigned Universal Design Feature: Track Lighting

Why is this considered to be Universal Design:

As we age our sight changes, and the eyes become more sensitive to glare and shadows.

Consistency or balanced even light throughout a room is important because even light promotes reduced glare and decreases shadows. Track lighting is part of universal design because it helps to promote balanced light throughout the room. Track lighting is flexible, and can be added to or adjusted if brighter light is needed. Another benefit of track lighting is that it can be directed to the areas where it is needed most. Track lighting is convenient and versatile, and supplements indirect overhead lighting. Track lighting is easy to install, and can be done by the homeowner. Some track lighting kits plug into existing outlets, while others fit into existing junction boxes.

Source: Lowe's Home Improvement Warehouse website

Price: \$298.00



Retail Source (Name, address): Lowe's Home Improvement Warehouse, 2888 Brice Road

Manufacturer: Tiella

Model Number: 800RAL5AMN

Color, Material and Other Descriptive Information:

Includes 3 sections of 42" bendable rail, 5 fixtures, 5-20 watt bulbs, mounting hardware

Is item in stock, custom order? In stock

Brief description of installation (who should install?)

Installing track lights are easy and safe to do if follow manufacturer's instructions.

Powered by an electronic transformer that mounts to your existing electrical box.

Special installation instruction (height of product, reinforcement needed, etc.):

Secure the track along the length with toggle bolts or screws.

Toggle bolts are used when access to the ceiling joints are not possible.

Approximate cost of installation:

Could be done by the customer.

Total Cost of feature Change (product + installation)

\$298.00 + \$6.03 shipping = \$304.03

Can also be picked up at the store or delivered by Lowe's for \$30.00

Price: \$26.83



Retail Source (Name, address): Lowe's Home Improvement Warehouse, 2888 Brice Road

Manufacturer: Emerald

Model Number: P4522W

Color, Material and Other Descriptive Information:

White round back track light kit with two 2' track sections- Uses 50 watt bulbs

Is item in stock, custom order? In stock

Brief description of installation (who should install?)

Installing track lights are easy and safe to do if follow manufacturer's instructions.

Mounts directly to your junction box.

Special installation instruction (height of product, reinforcement needed, etc.):

None

Approximate cost of installation:

Could be done by the customer.

Total Cost of feature Change (product + installation)

\$26.83 if picked up at the store

Can be delivered by Lowe's for \$30.00

Price: \$19.98



Retail Source (Name, address): Lowe's Home Improvement Warehouse, 2888 Brice Road

Manufacturer: Emerald

Model Number: P8351W

Color, Material and Other Descriptive Information:

White 3 light step cylinder fixed track light- Fixtures rotate and adjust vertically- 26" track

Is item in stock, custom order? In stock

Brief description of installation (who should install?)

Installing track lights are easy and safe to do if follow manufacturer's instructions.

Mounts directly to your junction box.

Special installation instruction (height of product, reinforcement needed, etc.):

None

Approximate cost of installation:

Could be done by the customer

Total Cost of feature Change (product + installation)

\$19.98 if picked up at the store

Can be delivered by Lowe's for \$30.00

Comments: Track lighting comes in a variety of price ranges. The products I listed ranged in price from \$19.98 to \$298.00. A product that comes in a range of prices is a real benefit to homeowners because

they can choose the kit that fits their budget best. Also, various styles and colors were available to fit in with different home decors.

Assigned Universal Design Feature: Side-by-Side Refrigerator.

Why this is considered to be Universal Design:

Having a side by side refrigerator allows clients of all ages and sizes to have equal accessibility to both freezer and refrigerator sections. This style will reduce the strains that are placed on the elderly client if she had to reach into a freezer that was located on top of the refrigerator section. The twin children in the family like to help with the meal preparation and this unit allows them to have easy entry and helps to minimize accidents such as unintended items falling from the freezer onto the children. This style of a refrigerator accommodates low physical effort when retrieving water and ice cubes because it has a “through the door ice and water.” The design of a side-by-side door refrigerator is visually pleasing, and is a popular style sold among home owners.

Photograph 2:



Price: \$1488.88

Retail Source (Name, address): Sears, 1400 Polaris Parkway Columbus, Ohio 43240 #797-2054

Manufacturer: Kenmore

Model Number: 53762

Color, Material and Other Descriptive Information:

White on white overall, side-by-side doors. 25.9 Cu Ft

Is item in stock, custom order? Typically available in 3-5 days.

Brief description of installation (who should install?)

Sears will deliver and install.

Special installation instruction (height of product, reinforcement needed, etc.):

Height: 69 5/8 inch Width: 35 1/2 inch Depth: 33 3/4 inch

Approximate cost of installation:

Free delivery and installation

Total Cost of feature Change (product + installation)

\$1488.88

Photograph 3:



Price: \$1069.88

Retail Source (Name, address): Sears, 1400 Polaris Parkway Columbus, Ohio 43240 #797-2054

Manufacturer: Kenmore

Model Number: 51699

Color, Material and Other Descriptive Information:

Black on black overall. 25.9 Cu Ft

Is item in stock, custom order? Typically available in 3-5 days.

Brief description of installation (who should install?)

Sears will deliver and install.

Special installation instruction (height of product, reinforcement needed, etc.):

Height: 69 3/8 inch Width: 35 5/8 inch Depth: 33 3/4 inch

Approximate cost of installation:

Free

Total Cost of feature Change (product + installation)

\$1069.88

Comments:

The first choice is available in white and black.

The second option is available in black or stainless steel finish.

Both refrigerators are energy star compliant.

Both are available with through-the-door dispensers, ice and water with water filtration system.

Both have fixed and adjustable shelves, spill proof shelves, noise reduction.

Includes One year warranty through Kenmore.

Assigned Universal Design Feature: Kitchen Lighting

Why this is considered to be Universal Design:

As we age our sight changes, and the eyes become more sensitive to glare and shadows. Consistency or balanced even light throughout a room is important because even light promotes reduced glare and decreases shadows. Track lighting is part of universal design because it helps to promote balanced light throughout the room. Track lighting is flexible, and can be added to or adjusted if brighter light is needed. Another benefit of track lighting is that it can be directed to the areas where it is needed most. Track lighting is convenient and versatile, and supplements indirect overhead lighting. Track lighting is easy to install, and can be done by the homeowner. Some track lighting kits plug into existing outlets, while others fit into existing junction boxes.

Another feature we looked at is under cabinet lighting. This feature is essential to aid in daily tasks performed in the kitchen. Tasks performed on counter tops beneath upper cabinets generally have insufficient light due to shadows from the cabinets. Under cabinet lighting feature chosen in this study is easy to install and inexpensive. It is versatile in placement and use.

The rocker light switches are a third way to enhance kitchen lighting accessibility. The rocker switches require little force to turn the light on or off and are easy to utilize if a person has a disability. This product comes in an economical pack of ten and is decorative as well as functional. When the light is in the off position, it glows to aid in locating the light switch in the dark.

Photograph 1:

Price: \$29.95 for 10



Retail Source (Name, address): Lowe's Home Improvement Store, 2345 Silver Dr. Columbus, Oh 43211

Manufacturer: Cooper Wiring Devices

Model Number: 6503A

Color, Material and Other Descriptive Information:

3 way decorator ac quiet switch. Industrial design cam action mechanism insures quiet switch action and consistent paddle height. Residential or commercial use. Accepts up to #10 solid or stranded wire

Lighted switch glow in off position

is item in stock, custom order? \$29.95 for 10 light switches, 10 packages are currently in stock

Brief description of installation (who should install?)

This job should not be too difficult because we are replacing an already existing light switch fixture.

Special installation instruction (height of product, reinforcement needed, etc.):

Replace original light switches with these rocker switches, it is a matter of matching the correct wires together

Approximate cost of installation:

Lowe's charges \$99 to replace light fixtures but did not have an amount for replacing light switches.

Total Cost of feature Change (product + installation)

$\$29.95 + \$99.00 = \$128.95$ potentially if Lowe's does not have a standard amount for light switch installation).

Photograph 2:

Price: 29.95



Retail Source (Name, address): Home Depot, Columbus

Manufacturer: Hampton Bay

Model Number: 35000/05

Color, Material and Other Descriptive Information:
5-Light White Halogen Plug-In Under Cabinet Light

Is item in stock, custom order? In-stock, and on-line order.

Brief description of installation (who should install?)

Installation, plug-in.

Special installation instruction (height of product, reinforcement needed, etc.):

It is 3" round and 1" thick for placement under cabinet, or else where.

Approximate cost of installation:

\$0

Total Cost of feature Change (product + installation)

29.95

Photograph 3:



Price: \$298

Retail Source (Name, address): Lowe's Home Improvement Warehouse, 2888 Brice Road

Manufacturer: : Tiella

Model Number: 800RAL5AMN

Color, Material and Other Descriptive Information:

Includes 3 sections of 42" bendable rail, 5 fixtures, 5-20 watt bulbs, mounting hardware

Is item in stock, custom order? In stock

Brief description of installation (who should install?)

Installing track lights are easy and safe to do if follow manufacturer's instructions.
Powered by an electronic transformer that mounts to your existing electrical box.

Special installation instruction (height of product, reinforcement needed, etc.):

Secure the track along the length with toggle bolts or screws.
Toggle bolts are used when access to the ceiling joints are not possible.

Approximate cost of installation:

Could be done by the customer.

Total Cost of feature Change (product + installation)

\$298.00 + \$6.03 shipping = \$304.03

Can also be picked up at the store or delivered by Lowe's for \$30.00

Comments:

Track lighting comes in a variety of price ranges. The products I listed ranged in price from \$19.98 to \$298.00. A product that comes in a range of prices is a real benefit to homeowners because they can choose the kit that fits their budget best. Also, various styles and colors were available to fit in with different home decors.

Assigned Universal Design Feature: Kitchen Storage

Why this is considered to be Universal Design:

The first reason kitchen storage is considered to be Universal Design is convenience within the kitchen. This allows all members in the household to easily obtain items necessary for cooking. It also accommodates for disabilities, or deficits related to age by incorporating roll out, and pull down shelves for these individuals. These adaptations will compensate for decreased reach, mobility, and standing endurance. The next reason is for organization. A kitchen can become very cluttered and unorganized which causes longer cooking time and harder to maintain spaces. By providing organization kitchen tasks become more efficient. Maintenance is reduced and therefore easy to keep up allowing for more time to be spent elsewhere. The last reason is increased counter space. This is accomplished by taking the items on the counter and putting them into organized bins, shelves, and a pantry, which provides a clutter free environment for everyone to enjoy. Not only is more counter space provided, but also items are not misplaced as often. Overall, kitchen storage allows the kitchen to be an easy and accessible area for all ages and disabilities to work in.

Photograph 1:

Price: \$

Retail Source (Name, address): Lowes 3600 Park Mill Run Dr.

Manufacturer: American Wood Mark, or Craftmaid

Model Number: EZRL (size)

Color, Material and Other Descriptive Information:

Variety of stains to match cabinets. Oak, Pine, Maple, variety of woods.

Is item in stock, custom order? One version is in stock or custom order.

Brief description of installation (who should install?)

Comes installed with purchase of cabinets.

Special installation instruction (height of product, reinforcement needed, etc.):

Already installed when cabinets are installed.

Approximate cost of installation:

Included in price of cabinetry.

Total Cost of feature Change (product + installation)

\$237.00 in stock

\$300.00 or more customized.

Photograph 2:



Price: \$98.00

Retail Source (Name, address): Home Depot 5858 Sawmill Rd. Dublin, Oh 43017

Manufacturer: Rev-A-Shelf

Model Number: 594-15S

Color, Material and Other Descriptive Information:

3 drawer set which includes frame and screws for installation. It comes in wood or wire.

Is item in stock, custom order? Custom Order according to width and type.

Brief description of installation (who should install?)

Homeowner can install, comes with necessary supplies and instructions.

Special installation instruction (height of product, reinforcement needed, etc.):

None

Approximate cost of installation:

None

Total Cost of feature Change (product + installation)

\$98.00

Photograph 3:

Price: \$34.97



Retail Source (Name, address): Home Depot 5858 Sawmill Rd. Dublin, Oh 43017

Manufacturer: Rev-A-Shelf

Model Number: RV-9PB-5

Color, Material and Other Descriptive Information:

White 30 qt. Basket with pull out frame.

Is item in stock, custom order? In stock

Brief description of installation (who should install?)

Homeowner can install.

Special installation instruction (height of product, reinforcement needed, etc.):

Easy to install, already assembled, just have to put in screws.

Approximate cost of installation:

None

Total Cost of feature Change (product + installation)

\$34.97

Comments:



Photograph 1 Lazy Susan
Unable to insert picture above.

Assigned Universal Design Feature: Work Space

Why this is considered to be Universal Design:

Work space is considered to be a universal design because it would simplify life. Further, it is considered a feature because all the family members should be able to use it in a comfortable, safe and functional way. Since each householder has a different height, and Mrs. C. and Mrs. M. have difficulties with balance, we have decided that a kitchen island would meet their needs. In addition, an island would increase the amount of workspace that exists in the kitchen.

Photograph 1:

Price: \$400.00 = Countertop
\$500.00 = Cabinets
\$150.00 - \$200.00 =
Other Materials

Retail Source (Name, address): Lowes Home Improvement Stores or
<http://www.lowes.com/lkn?action=home>

Manufacturer: Lowes Manufacturer

Model Number: 4552-50 = Countertop ebony star
Base SB36 = Artic grove (paint color)

Color, Material and Other Descriptive Information:

-Countertop: formica, Craft Made and American Woodmark. Other materials: cabinets, adhesive, base molding, primer and paint

-Black laminate top (low gloss) with white cabinets

Is item in stock, custom order? Standard pieces are in stock, however, if there is special features to add it must be ordered and will take 3-5 weeks for delivery

Brief description of installation (who should install?)

This job requires someone with knowledge of the drill and miter saw. Anyone with knowledge of these tools could install the island. However, it would be in the best interest of this family to hire a professional to do the work.

Special installation instruction (height of product, reinforcement needed, etc.):

The island is going to be 5' by 3' wide and the height of this product is in the range of 28" to 32". Reinforcements are not usually needed. Drilling small pilot holes in the base of the molding before nailing to prevent the wood from splitting is recommended.

Approximate cost of installation:

\$350.00-\$400.00

Total Cost of feature Change (product + installation)

\$1500.00

Photograph 2:

Price: \$479.00



Features

- Large single drawer designed to look like two drawers with raised profile
- Center enclosed compartment with adjustable middle shelf
- Two smaller end enclosed compartments with adjustable shelf. Shelves can be removed to permit storage of baking sheets.

Retail Source (Name, address): <http://www.kitchencarts.com/catskill/ca64228.htm>

Manufacturer: Manufacturer here

Model Number: CA-64228 **Catskill Super Island with Breakfast Bar**

Color, Material and Other Descriptive Information:

- 1.) Knife rack on side holds 10" blades
- 2.) Satin nickel handle/towel bar on side
- 3.) Heavy duty wheel casters - locking
- 4.) Raised Panel Doors
- 5.) Oil finish

Is item in stock, custom order? In stock – Shipped within 2 weeks + transit time

Brief description of installation (who should install?)

- No installation required but does require assembly. Easy enough to be assembled by the Mr. C.

Special installation instruction (height of product, reinforcement needed, etc.):

N/A MEASUREMENTS - Top with drop leaf up: 42" x 28". Top with drop leaf down: 42" x 18" Drop Leaf is connected to the cart by hinges and supported by two metal rods that slide out straight. Overall size with drop leaf up: 44" x 28" x 34 1/2". Height Overall size with drop leaf down: 44" x 19 1/4" x 34 1/2" Height

Approximate cost of installation:

N/A

Total Cost of feature Change (product + installation)

\$479.00 – No shipping and handling charges

Photograph 3:

Price: \$625.00



Retail Source (Name, address): http://www.125west.com/Grande_Epicure_Kitchen_Butcher_Blocks_&_Work_Tables_Super_Center_kitchen_island.html

Manufacturer: **Grande Epicure Super Center**

Model Number: 0016-06387

Color, Material and Other Descriptive Information:

- Sturdy edge-grain butcher block top, Two side leaves that extend 14" each provide extra food prep or serving space, Wine rack holding 9 bottles, Two drawers, Large sturdy utility shelf is perfect for storing cookware or countertop appliances, Heavy-duty hardware, Size 24" x 48" x 36" H, Weight 150 Lbs

Is item in stock, custom order? In stock – 10 days for delivery

Brief description of installation (who should install?)

No installation required but easy assembly required that can be done by Mr. C.

Special installation instruction (height of product, reinforcement needed, etc.):

N/A

Approximate cost of installation:

N/A

Total Cost of feature Change (product + installation)

\$625.00 + \$30.00 S/H

Comments:

Product #1 is the ideal product for this family. It is custom formed so no exact picture is available. Due to the cost of the product, the other two products do provide a breakfast area to sit while working but are not recommended for this family.