BCA UNIVERSAL DESIGN AWARDS FOR THE BUILT ENVIRONMENT 2012
CALL FOR NOMINATIONS

Introduction

The BCA Universal Design Awards was launched in 2007 to promote the adoption of Universal Design in the built environment and to raise awareness among owners, developers, designers and builders on incorporating user-friendly features at the onset of project conceptualization and design. The Awards accord recognition to organizations and individuals for their exemplary efforts in embracing Universal Design in their developments.

If your development is accessible and user-friendly to all, we would like to invite you to submit for the BCA Universal Design Awards for the Built Environment 2012.

Entry criteria

The invitation is open to all owners, developers and building professionals involved in creating an inclusive built-environment that is accessible and friendly to all. There is no restriction on the number of entries that each individual, firm or team can submit. The development must have obtained Temporary Occupation Permit / Certificate of Statutory Completion and be occupied at the time of submission of entry to be deemed qualified for assessment. BCA reserves the right to disqualify any participating individual / firm / team.

Assessment criteria and scoring system

BCA Universal Design Awards evaluate a building for its features that benefit not only to special groups but everyone. Buildings are awarded the BCA Universal Design Awards based on the following key criteria:-

<table>
<thead>
<tr>
<th>Connectivity</th>
<th>15 pts (10 pts for Residential Buildings category)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessibility</td>
<td>10 pts</td>
</tr>
<tr>
<td>User-Friendliness</td>
<td>40 pts</td>
</tr>
<tr>
<td>Safety</td>
<td>15 pts</td>
</tr>
<tr>
<td>Integrated Design</td>
<td>10 pts (15 pts for Residential Buildings category)</td>
</tr>
<tr>
<td>Operations &amp; Maintenance</td>
<td>10 pts</td>
</tr>
<tr>
<td>BONUS for Innovation and Enhancement</td>
<td>25 pts</td>
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</tbody>
</table>

Under the Universal Design Awards assessment system, points are awarded for incorporating Universal Design features, which are over and above Code-compliance. The points awarded provide an indication of the inclusiveness of the building design. Buildings are awarded Gold, Silver or Bronze ratings following site evaluations by the assessment committee.
All entries are grouped into one of the following six building categories:

1. Commercial/ Mixed Use/ Industrial Buildings
2. Institutional Buildings
3. Residential Buildings
4. Open Category
5. Outdoor Spaces & Structures
6. Refurbished Buildings

Assessment committee

All entries will be judged by the Assessment Committee, comprising senior representatives from the following organizations:

Building and Construction Authority
Singapore Institute of Architects
Handicap Welfare Association
Singapore Association of Occupational Therapists
National University of Singapore
Real Estate Developers’ Association of Singapore
Society for the Physically Disabled
Council for Third Age

Applications and assessment process

Developers, building owners and government agencies are to submit an entry form to BCA to register their interest in participating in the BCA Universal Design Awards. Alternatively, applicants can log on to our Friendly Built Environment Portal www.friendlybuildings.sg and submit the application through e-Entry. All submission requirements including the A3-sized report (max 15 pages), Universal Design Awards Accessibility Checklist and VCD/DVD with clear sharp digital images at 300 dpi resolution, are to reach BCA by 1700hrs, 30 December 2011.

The assessors will evaluate all entries and shortlist them for site visits. The short-listed entrants will be required to make a presentation to the assessors on outstanding and innovative Universal Design features of the submitted projects prior to a site walkaround conducted by the entrants.

For any clarifications on the BCA Universal Design Awards, please email the BCA Universal Design Awards Secretariat at bca_bfa_upgrading@bca.gov.sg.
## Description

### Part 1: 15 points - Connectivity (10 points for Residential Buildings category)

The degree to which the development is designed in a holistic manner to allow for seamless and sheltered connection to public transport nodes, streets, sidewalks and adjacent buildings etc and seamless movement within the buildings with provisions such as wide circulation paths and doorways and access to all levels of building by ramps and/ accessible lifts and/ ambulant friendly stairs.

### Part 2: 10 points - Accessibility

The availability and convenience of provisions such as safe and sheltered accessible alighting and boarding points, conspicuous accessible parking lots located near main or lift lobbies. Accessible entrances with auto doors or a step less entry.

### Part 3: 40 points - User-Friendliness

The availability and convenience of Family friendly facilities like family room, seats and child-friendly sanitary facilities and other amenities such as accessible information counter, friendly drinking fountain, vending machine, friendly multimedia kiosk, ATM, WiFi access, friendly directory, electric carts, AED (automated external defibrillator), PA system with induction loop. The provision of signage and way finding cues such as audible information, tactile directional indicators and color or visual themes at main circulation spaces & leading to public transport nodes and UD facilities; and the degree to which the design of signage and way-finding cues are easy to read, understand and intuitive regardless of the user’s experience, knowledge, language skills or current concentration level.

### Part 4: 15 points - Safety (15 points)

The degree to which walking surfaces are made safe and secure with attention to details such as choice of materials, design without gratings, free of obstacles and dangerous overhangs, provision of adequate lighting and handrails/ trailing bars, contrasting colour and design clearly distinguishing floors and walls, stairs and landings and provision of tactile warning indicators near edge of potential hazardous areas.

### Part 5: 10 points - Integrated Design (15 points for Residential Buildings category)

The demonstration of total design approach for targeted user groups in the layout design and the integration of tastefully-designed and equitable use facilities and features with the overall architecture and interior design of the building. Design that help to integrate everyone - old, young, children and persons with different abilities within residences e.g. apartments with open plan concept to allow spatial flexibility, apartments with future protect features for the elderly.

### Part 6: 10 points - Operations & Maintenance

The degree to which the organization is committed to creating and maintaining an inclusive built environment through the establishment of corporate policy which is clearly communicated to employees, mandating regular inspections to ensure good working condition of facilities, equipping employees with Universal Design knowledge through training, and providing avenues for users to give feedback and authority for employees to render assistance to feedback givers.

**GRAND TOTAL FOR PARTS 1-6 = 100 POINTS**

### Part 7: 25 points - BONUS for Innovation and Enhancement

The provision of other new/innovative aging-in-place, pro-family and/or employee-friendly UD facilities or features and accessible escape routes and systems for the physically challenged, such as Braille on stairs railings, rental of wheelchair, pram, accessibility scooters, etc. Designing with the provision for the flexibility to allow for future modifications. The commitment and efforts of refurbished building owners in overcoming the challenges of existing constraints. Innovations like intelligent home features and other novel UD facilities or features within home.

**TOTAL FOR PART 7 = 25 POINTS**

Note: Refer to Accessibility checklist for more details.
**BCA UNIVERSAL DESIGN AWARDS FOR BUILT ENVIRONMENT 2012 ENTRY FORM**

**Entry Submission Details**

<table>
<thead>
<tr>
<th>Name of Project :</th>
<th>:</th>
<th>:</th>
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</thead>
<tbody>
<tr>
<td>TOP/CSC Date :</td>
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</table>

**Entry Category**

Please check the box for the category you are participating in.

<table>
<thead>
<tr>
<th>Commercial/ Mixed Used/ Industrial Buildings</th>
<th>Institutional Buildings</th>
<th>Residential Buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hotel</td>
<td>Hospital</td>
<td>Condominium</td>
</tr>
<tr>
<td>Shopping Centre</td>
<td>School</td>
<td>HDB Flats</td>
</tr>
<tr>
<td>Cinema</td>
<td>Library</td>
<td>Strata housing (Town House / Detached / Semi-Ds*)</td>
</tr>
<tr>
<td>Theatre</td>
<td>Museum</td>
<td>Service Apartment</td>
</tr>
<tr>
<td>Offices</td>
<td>Places of Worship</td>
<td>Others, Pls specify</td>
</tr>
<tr>
<td>Market &amp;/ Food Centre*</td>
<td>Others, Pls specify</td>
<td>Others, Pls specify</td>
</tr>
<tr>
<td>Factory/ Business Park*</td>
<td></td>
<td></td>
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<tr>
<td>Others, Pls specify</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Open Category</th>
<th>Outdoor Spaces &amp; Structures</th>
<th>Refurbished Buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRT station</td>
<td>Public/ Neighborhood Parks*</td>
<td>Buildings or facilities that have undergone additions and alterations and upgraded with universal design features</td>
</tr>
<tr>
<td>Bus Interchange/ Terminal*</td>
<td>Park Connector</td>
<td></td>
</tr>
<tr>
<td>Sports Complex</td>
<td>Promenade</td>
<td></td>
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<tr>
<td>Swimming Complex</td>
<td>Plaza</td>
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</tr>
<tr>
<td>Places of Interest</td>
<td>Public, private and HDB open spaces</td>
<td></td>
</tr>
<tr>
<td>Stadium</td>
<td>Others, Pls specify</td>
<td></td>
</tr>
<tr>
<td>Club/ Resorts*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theatre/ Amphitheatre/ Performance Hall*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others, Pls specify</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*delete accordingly
Project Team Information

Qualified Person(s)

Company name : ____
Qualified Person : ____
Address : ____
Telephone : ____  Mobile: ____  Fax: ____
Email : ____

Associate Designer(s) [if applicable]

Company name : ____
Address : ____
Telephone : ____  Mobile: ____  Fax: ____
Email : ____

Owner/ Developer Information

☐  Check here if owner is the developer

Company name : ____
Address : ____
Telephone : ____  Mobile: ____  Fax: ____
Email : ____

Managing Agent Information (If applicable)

Company name : ____
Address : ____
Telephone : ____  Mobile: ____  Fax: ____
Email : ____
Submission of Materials

A. Description of the Development and UD Facilities

1. A written description of 300-500 words of the development and the Universal Design (UD) facilities and features.

2. Photographs and drawings illustrating the development and the UD facilities and features should be submitted in A3-sized report (max 15 pages).

3. Information on the A3-sized report must include annotated drawings such as site plan at a scale of not less than 1:2000 and any other plans, sections, perspectives, photographs and axonometric drawings to illustrate:
   a. Access routes from amenities to the development
   b. Circulation paths and doorways with sizes clearly annotated
   c. Family-friendly facilities and amenities
   d. Signage and way-finding cues
   e. Safety and Emergency evacuation provisions

4. Drawings shall clearly articulate the overall design intent and highlight any unique or innovative UD solutions or ideas, if applicable.

B. Description of Corporate Philosophy

1. A written description of 300-500 words on the corporate philosophy in creating a built environment that is accessible and friendly to all users.

2. The description shall substantiate the corporate philosophy by highlighting details such as procedures to ensure regular inspection, testing and maintenance of facilities, staff training on UD and avenues for the public to give feedback on the facilities provided.

C. Universal Design Awards Accessibility Checklist

1. Please fill up the Universal Design Awards Accessibility Checklist [Annex A] as part of the submission.

Note: A VCD/DVD containing presentation slides (in ppt format) of the above items (A, B & C) must accompany each entry. Picture files shall be at least 300 dpi in resolution. Project Title and Entrant’s name must be clearly labeled on the VCD/DVD and VCD/DVD cover. Alternatively, the slides can be submitted online.
Submission Guidelines & Instructions

Eligibility

1. The Competition is open to all owners, developers and professionals in creating an inclusive built- environment that could be used by all people. There is no restriction on the number of entries that each individual, firm or team can submit.

2. The development must have obtained Temporary Occupation Permit / Certificate of Statutory Completion and be occupied at the time of submission of entry to be deemed qualified for assessment.

3. BCA reserves the right to disqualify any participating individual / firm / team.

Assessment of Entries

1. The assessors will evaluate all entries and shortlist them for site visit. The short-listed entrants will be required to make a presentation to the assessors on the outstanding and innovative Universal Design qualities of the projects prior the walk-around.

Submission Deadline

1. All entry forms must be duly completed and signed. The forms, A3- sized reports, Universal Design Awards Accessibility Checklist and VCD/DVD are to be submitted in a sealed envelope with the words “BCA Universal Design Awards” clearly written on the envelope, attention to BCA Universal Design Awards Secretariat at the following address:

   Building and Construction Authority
   5 Maxwell Road #07-00
   Tower Block MND Complex
   Singapore 069110

2. All entries must be received by 1700hrs, 30th December 2011.

3. No new or additional information will be accepted by BCA or considered by the Committee after the deadline.

4. Any non-compliant submission will not be accepted.

5. Any queries on the awards should be emailed to bca_bfa_upgrading@bca.gov.sg

Intellectual Property Rights

1. BCA shall have the rights to make editorial changes, publish, display, reproduce or otherwise publicize or communicate all entries submitted in any forms during the assessment, exhibition and for promotional, educational or record purposes. Such rights shall be exercisable by BCA without any payment, charge or fee whatsoever to any person.
2. Winning entries become part of BCA’s permanent collection. BCA reserves the right to retain for display and or dispose of any entries after the award winners have been announced. No entries will be returned to participants.

Committee’s Decision

1. The decision of the Assessment Committee shall be final and the Committee has absolute discretion to make or withhold an award. The Committee may also re-categorize any entry, which in their opinion, has been entered in the wrong category.

Declaration of Entrant

I declare that I am authorized by the owner/developer/company* to submit entries for BCA Universal Design Awards for Built Environment 2012. I have read and accepted the entry criteria, guidelines and instructions. I hereby agree to abide by these criteria, guidelines and instructions and certify that all information that I have submitted is correct and true.

Name : _____

NRIC No. : _____

Signature : _____

Company name and stamp : _____

Address : _____

Telephone : _____

Mobile : _____

Fax no. : _____

Email address : _____

Date : _____

*delete accordingly
### Universal Design Awards (UDA) 2012 Checklist

#### Date obtained TOP/CSC:

#### How to complete the checklist

Please select the appropriate box(es) for each criterion that are applicable to your building(s) or development(s).

<table>
<thead>
<tr>
<th>Full Compliance</th>
<th>Beyond Full Compliance</th>
</tr>
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</table>

#### 1 CONNECTIVITY

1.1 **Accessible external routes**

Provided accessible external route from nearby facilities leading to entrance (of building or development) which is stable, firm, level, slip-resistant & of not less than 1200mm width.

From which type of facilities?

- [ ] Public street
- [ ] Taxi shelter
- [ ] Parks or park connectors
- [ ] Traffic junction
- [ ] Bus shelter
- [ ] Other buildings or developments
- [ ] Overhead bridge
- [ ] Bus terminal
- [ ] Underpass
- [ ] Train station

At least one □ All □

1.2 **Horizontal circulation**

External & Internal corridors, circulation path(s) and doorways in the development are ≥1200mm

- [ ] Less than 50%
- [ ] More than 50%

External walkway provided is □

- [ ] Less than 50%
- [ ] More than 50%

All (100%) □

Fully sheltered □

1.3 **Vertical circulation**

All level changes in the development are accessed by ramps/accessible lifts □

More than one accessible lifts are provided for the development □

#### 2 ACCESSIBILITY

2.1 **Entances to Buildings**

Entances of the building/development are easily accessible by wheelchair users □

All entrances □

Main entrance doors provided are automated □

All □

2.2 **Accessible parking lots** (within building or has nearby external accessible vehicle parks)

Number of provision is according to the minimum requirements of current code. □

Number of provision is beyond the minimum requirements of current code. □

The accessible parking lots are located near to main lobbies, lift lobbies, main/ alternative entrances of the building/ development. □

At least one □

All □

Number of family parking lots provided □

2.3 **Commuter Facilities**

Please mention types of facilities provided for commuters □

- [ ] Sheltered alighting and boarding point
- [ ] Separate alighting and boarding points for taxis
- [ ] Sheltered Taxi stand
- [ ] Fully sheltered link way connecting the MRT station, bus terminal or bus stop
- [ ] Others, please specify: ____________________________

All commuter facilities within the development are accessible for wheel chair users/persons of varied physical ability. □

All commuter facilities within the development are covered/sheltered □

#### 3 USER-FRIENDLINESS

3.1 **Family-friendly facilities and features**

Provided at least one unisex individual washroom or water closet compartment for wheel chair users in both male and female toilets of all levels of the building. □

Number of toilets provided with family-friendly facilities/features. □

Please mention type of family-friendly facilities/features provided □

- [ ] Urinal for children At which level?
- [ ] Child-sized water closet At which level?
- [ ] Compartment for ambulant disabled At which level?
- [ ] Diaper-changing station At which level?
- [ ] Toddler seat within compartment At which level?
- [ ] Others, please specify: ____________________________


### USER-FRIENDLINESS (Continued)

<table>
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<tr>
<th>Full Compliance</th>
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</thead>
</table>

Please tick in the boxes if the following user-friendly features are provided for the development:
- Children’s Activity Corners/Playrooms
- Locker rooms for safe keeping of the User’s pram and other heavy belongings
- Family/nursing rooms for breast feeding and diaper changing
- First aid rooms
- Sufficient seating or resting areas with grab bars for elderly persons in every 30m or less
- Seating at taxi stands

**Friendly features provided in the apartment units** *(Only for Residential building category)*

- Flexible kitchen countertop for wheelchair users
- Motion sensor lights for apartment units
- Rocker switches for apartment units
- Door viewer at apartment units main doors for Wheelchair users
- Sufficient free space for wheelchair user’s movement in the apartment.
- Bathroom for wheelchair users

#### 3.2 Social amenities

- At least each of the common amenities/facilities provided for the building/development are accessible for wheelchair users/ persons of varied physical ability
- Please mention type of amenities/facilities provided for the use of wheelchair users/ persons with varying physical abilities
- ATM machines
- Book drops in libraries
- AXS, SAM or multimedia kiosks
- Public telephone
- Drinking fountains
- Information counters
- Vending machines
- Information counters
- Lockers in sports complexes, schools, etc.
- Electric carts
- Prams/wheelchair rentals
- Automated External Defibrillator (AED)
- PA System with induction loop & enhanced sound system
- Service counters in banks or ticketing offices
- Shower compartment for wheelchair users (in sports complexes and public swimming pools)
- Checkout lane and counter in departmental stores or supermarkets
- Guestrooms in hotels *(at least one in every 200 guestrooms)*
- Wheelchair parking spaces in places of public resort. *(At least two in every the first 200 seats or less)*
- Rooms in hostels, halls of residence or dormitories *(at least one in every 100 rooms)*
- Allocated at least 1 table for wheelchair users among every 10 tables of the eating place
- Others, please specify:

The above amenities/facilities provided are strategically located and clearly directed with signages

#### 3.3 Signage

- Contents of every signage are short and easy to understand.
- Characters and graphics of every signage are large enough and are of contrasting colours with the background within the signage.
- All signage have clear and simple symbols or words with colour distinction.
- The minimum level of illumination on all the signs is 200 lux.
- Signage in remote areas are illuminated clearly to enhance visibility.

*Please tick in the boxes if appropriate and sufficient number of signages are provided for the development at:*

- Main lobbies, lift lobbies, main and alternative entrances, atrium
- Main outdoor pedestrian footpaths and internal corridors
- Area leading to public transport facilities and accessible vehicular facilities
- Area leading to family-friendly facilities.
- Area leading to common amenities.

#### 3.4 Way Finding Cues

*Please tick in the boxes if appropriate tactile directional signs with contrasting colours are provided strategically at:*

- Main lobbies, lift lobbies, main and alternative entrances, atrium and plaza
- Leading to public transport facilities and accessible vehicular facilities and family friendly facilities
- Leading to pedestrian crossings, overhead bridge, underpass, traffic junctions, ramps, kerb ramps and stairs
- Leading to accessible lifts
### 4. SAFETY

#### 4.1 Ramps
- All ramps have a gradient of 1:12 or gentler.
- All ramps and landings are of contrasting colours, coloured bands or tactile warning strips at top, bottom & immediate landings with surrounding flooring material.
- All ramps have a width of not less than 1200mm.
- All ramps with handrails provided at both sides of the ramps.
- All ramps with handrails at a height of between 800mm and 900mm above floor level.
- All ramps with handrails extensions of not less than 300mm beyond top & bottom of ramps. 
- Building or development is designed without the need for ramps.
- All ramps with handrails for children.

#### 4.2 Staircases (except for fire escape staircases)
- All staircases have uniform risers and treads. 
- All staircases have nosing strips and treads of contrasting colours.
- Common staircases are provided with handrails provided on both sides.
- All staircases have handrails placed at a height of between 800mm & 900mm above floor level.
- All staircases have handrails extensions not less than 300mm beyond top & bottom of staircases.
- Buildings or developments are designed without the need for staircases or steps (E.g. for parks).
- All staircases have a minimum of three risers and provided landings after every sixteen risers.
- All staircases have handrails for children.
- All staircases have Braille markings on the horizontal extended handrails.
- Provided tactile warning indicators near edge of steps, stairs, landings, platforms and flush pedestrian vehicular way.

#### 4.3 Passenger Lifts
- Passenger lifts are made accessible for visually impaired persons and wheelchair users. At least one
- Lift provided with non-breakable mirrors in the lift interior to allow visual feedback for wheelchair users.

#### 4.4 Illumination
- All areas are well lighted and the luminance level are in accordance with SS 531
- All remote areas/ corners are illuminated clearly to enhance visibility

### 5 INTEGRATED DESIGN

#### 5.1 Design approach
Please highlight the design approach adopted for integrating universal design features in to the development.

#### 5.2 Architectural features/fittings
Please highlight the architectural features/fittings specially incorporated in the development as part of Universal Design.

#### 5.3 Integration of features friendly to the elderly and disabled persons in residences

| (Only for Residential building category) | 
| Integrated Studio apartments with other units. | ☐ |
| Provided units designed for multi-generational living | ☐ |
| Provided apartment units with future protect features for elderly. | ☐ |
| Provided apartment units with open plan concept. | ☐ |
| Provided remote controlled home automation system for apartment unit. | ☐ |

### 6 OPERATIONS & MAINTENANCE

#### 6.1 Corporate/Project Policies
Please highlight the policies executed in the project for supporting needs of Ambulant disabled, Elderly, wheelchair users and visually impaired persons.

#### 6.2 Regular maintenance
Please highlight the established procedures for regular testing, maintenance and upgrading of UD facilities.

#### 6.3 Corporate procedure for addressing public concerns
Please highlight the corporate procedures for addressing public concerns about the usability of UD facilities.

### 7 INNOVATIVE FEATURES

#### INTENDED USER GROUPS – Accessible/Usable by?

| Family with young children | Blind or partially visually impaired persons | Ambulant disabled |
| Hearing impaired persons | Elderly (more than 50 years old) | Wheelchair users |

Note: Points will be deducted for non-compliant and substandard provisions.