

# DESIGN GUIDE - DRINKING FOUNTAINS & WATER FILLING POINTS

## 1. APPLICATION

Provide accessible drinking fountains where required.

## 2. DESIGN CONSIDERATIONS

The Design Guide contains criteria for elements which are beyond the scope of the NCC and the Premises Standards.

- **Placement**

Located adjacent to and accessible from an access way and locate so the user does not impede movement along the access way.

- **Circulation**

Provide space to access, use, turn around if required and exit the area. Circulation should preferably permit access from either side or front. AS1428.1 Figure 5 requires a clear space of 2070mm x 1540mm in direction of travel to turns 180°. However, as there is clear space under the drinking fountain the depth may be reduced by 200mm to 1870mm. Circulation space also needs to provide a minimum clear passage past the drinking fountain of 1000mm.

- **Height**

The critical issue is to enable a user to drink from about 900mm above floor/ground level and centred on the wheelchair position. Water supply can come from any direction but should not land or splash onto the user and excess water must drain away. Clear access under should be to AS1428.1 Figure 45.

- **Controls**

These can be a manual control or sensor operated. The location as discussed below is where the manual operation occurs or the point that activates the sensor. Controls need to be within 300mm from leading edge on the approach side. Manual controls require a lever handle a minimum 45mm long or a minimum 25mm diameter pushbutton control that is activated before the button becomes level with the surrounding surface at a maximum force of 20N. If approach is from front or one side only then controls must be centred, if approach is from both sides controls can be offset but must remain a maximum 300mm set back and within wheelchair footprint.

- **Drinking Fountain Taps**

These also can be manual operation or sensor operated. Taps or sensor operator position should be in the reach range of 600mm – 1100mm with 900mm the preferred height. Access can be from the side or front. There needs to be a minimum clear space under of 300mm for front approach or the tap and handle to project a minimum 140mm. Clear side access is required for side approach. If provided as a sink or similar in or above a bench then the requirements of an accessible sink at a tea point apply as per other design guides.

NOTE 1: For people with limited upper limb function or one upper limb only a sensor operation or a tap with continuous flow is better.

NOTE 2: Drainage of excess water needs to be considered.

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- **Design**

All corners to have a minimum radius of 5mm vertical to vertical and rounded on vertical to horizontal. The drinking fountain is to deliver water at maximum 45° Celsius as per NCC Volume 3 in all weather conditions. If water within the fountain may reach this temperature then some relief, valve or other design feature needs to be considered.

### **3. REFERENCES**

AS1428.1 – 2009 - Design for Access & Mobility Part 1: General Requirement for Access – New Building Work incorporating amendment No 1 2010.

AS1428.2 – 1992 - Design for access and mobility - Enhanced and additional requirements - Buildings and facilities.

Acumen Access Design Guide “Accessible Tea Point” published by the Australian Institute of Architects.

### **4. DRAWINGS**

Accessible Drinking Fountains & Water Filling Points - Sheets 1, 2 and 3 - 21 August 2015.

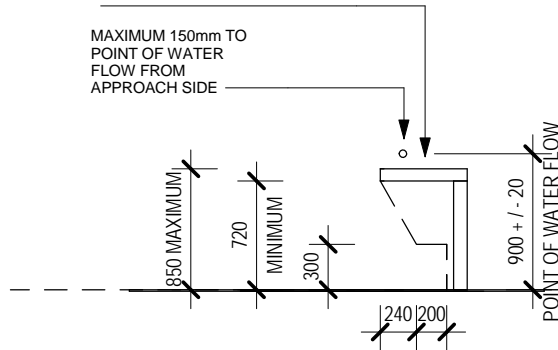
NOTE 1: The NCC Volume 3 (Plumbing Code of Australia) refers to drinking fountains as “beverage dispensers”.

NOTE 2: Manual override of any electrical units or battery power is desirable.

Issued: 31 August 2015

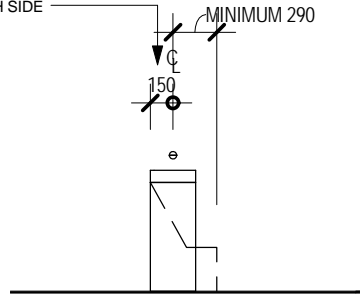
MAXIMUM 300mm TO CONTROL FROM APPROACH SIDE AND A HEIGHT OF 900mm TO 1100mm

MAXIMUM 150mm TO POINT OF WATER FLOW FROM APPROACH SIDE

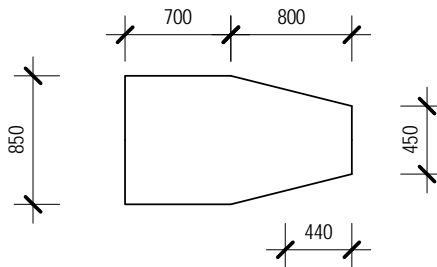


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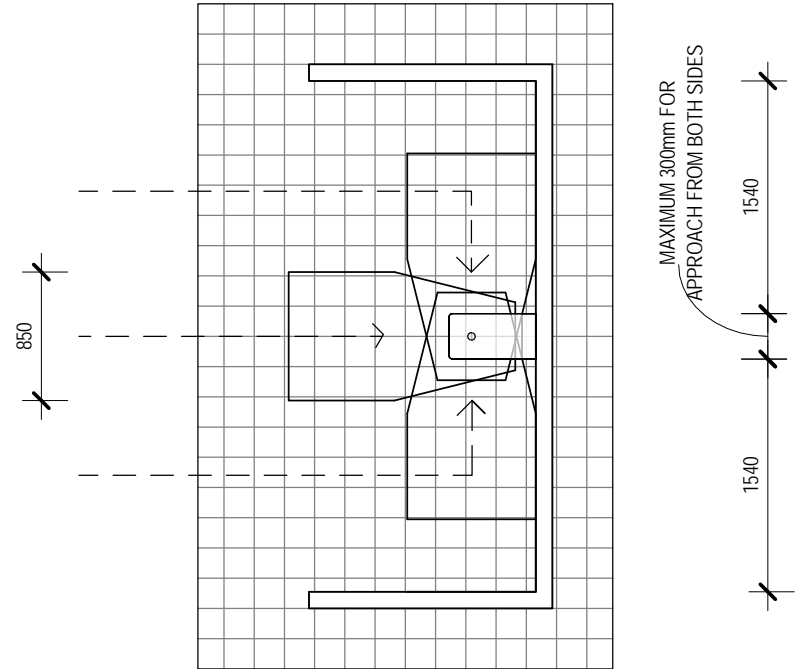
MAXIMUM 150mm TO POINT OF WATER FLOW FROM APPROACH SIDE



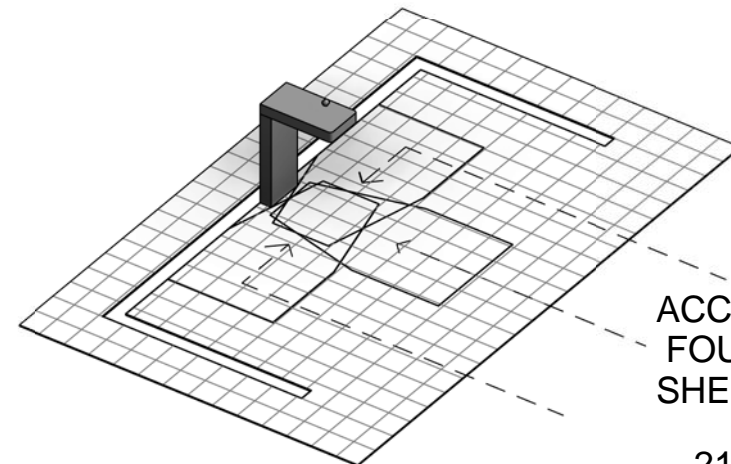
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WHEELCHAIR FOOTPRINT



DRINKING FOUNTAIN LAYOUT (ACCESS FROM FRONT & BOTH SIDES PREFERRED).



ACCESSIBLE DRINKING FOUNTAIN & TAPS SHEET 1

NOTES:

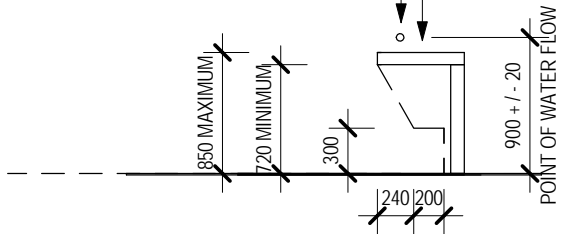
CONTROLS: THESE CAN BE SENSOR CONTROLLED, A TAP OR PUSH BUTTON

DESIGN DETAILS INCLUDE:

- MAXIMUM 300mm FROM EDGE ON APPROACH SIDE
- MAXIMUM 20 NEWTONS FORCE TO OPERATE
- PUSH BUTTON RAISED ABOVE ADJACENT SURFACE & MINIMUM 25mm DIAMETER
- PUSH BUTTON TO ACTIVATE BEFORE BUTTON BECOMES LEVEL WITH SURROUNDING SURFACE
- LEVER HANDLES A MINIMUM 45mm
- SENSOR ACTIVATION POINT TO BE SIMILAR TO TAP POSITION

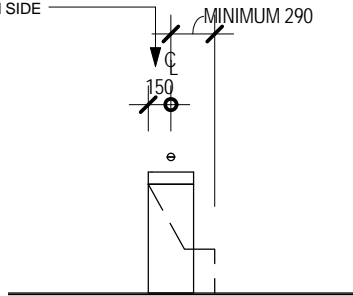
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MAXIMUM 150mm TO POINT OF WATER FLOW FROM APPROACH SIDE

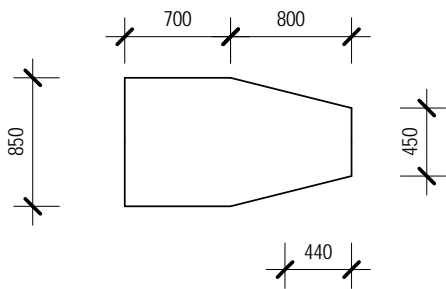


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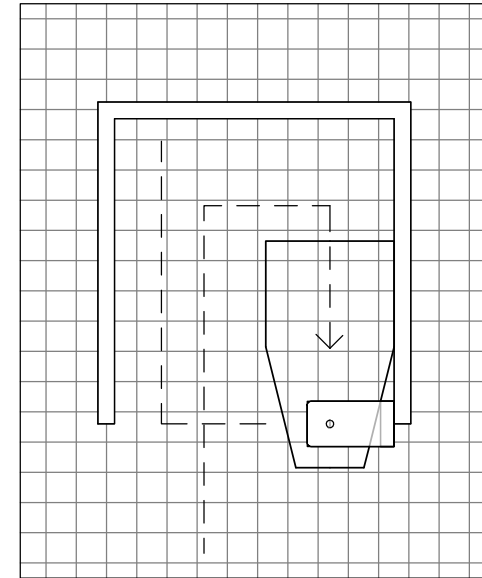
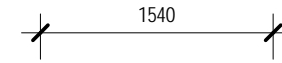
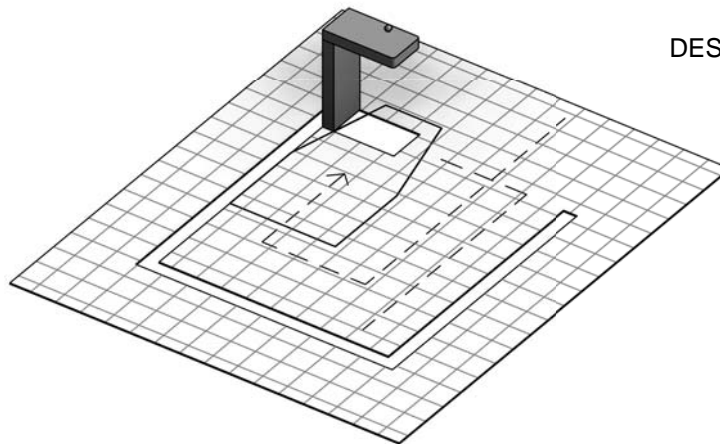
MAXIMUM 150mm TO POINT OF WATER FLOW FROM APPROACH SIDE



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**WHEELCHAIR FOOTPRINT.**



**DRINKING FOUNTAIN LAYOUT**

(IF 180 DEGREES ACCESS IS REQUIRED)

**NOTES:**

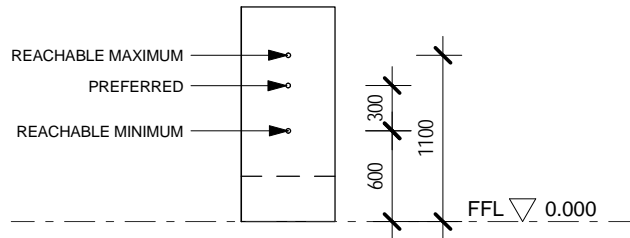
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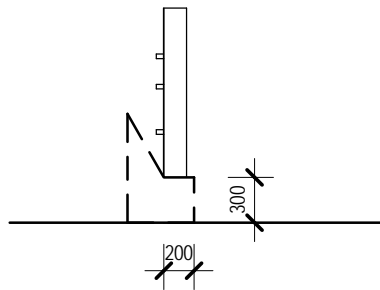
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**ACCESSIBLE DRINKING FOUNTAIN & TAPS SHEET 2**

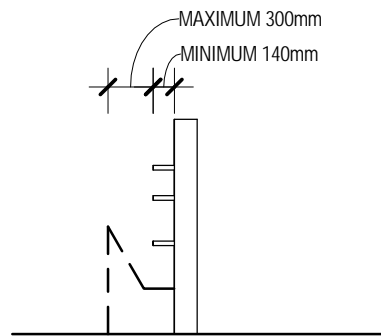
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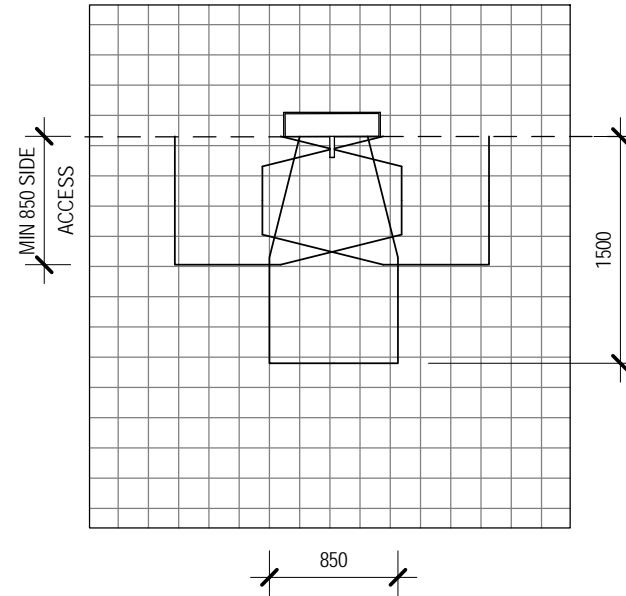
### TAP HEIGHTS



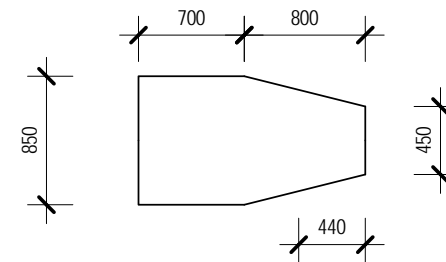
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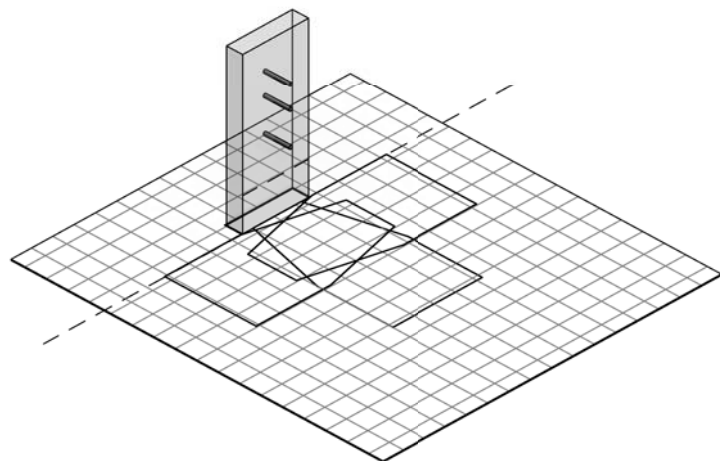
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WATER FILLING POINT



WHEELCHAIR FOOTPRINT..



WATER FILLING POINT

SENSOR CONTROL, PUSH BUTTON OR TAP & OUTLET SHOULD HAVE A MINIMUM PROJECTION OF 140mm FOR FRONT APPROACH IF NO RECESS IS AT BASE. IF RECESS OF A MINIMUM 300mm HIGH & 200mm DEEP IS PROVIDED, NO TAP & PROJECTION IS REQUIRED EXCEPT SUFFICIENT SPACE IS REQUIRED TO GRASP THE TAP & PLACE OBJECT UNDER OUTLET. SENSOR ACTIVATION POINT TO BE SIMILIAR TO TAP POSITION

## ACCESSIBLE DRINKING FOUNTAIN & TAPS SHEET 3