Provide the minimum clear floor space in front of all controls and objects. For additional information on minimum clear floor space, see RT Routes and Spaces.

Locate controls and objects at least 18in. (455mm) away from inside corners of walls so that people using wheelchairs can get close enough to access them.

Locate controls and objects that require manipulation (such as keypads, dials, and switches) between 36in. (915mm) minimum and 43in. (1090mm) maximum above the floor.

Locate similar controls and objects at consistent heights throughout spaces.

Install light switches at the same height wherever possible.

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**B Front Reach**

Heights for a front reach apply where the clear floor space allows only a forward approach to an object by a person using a wheelchair.

Keep in mind that a forward approach (front reach) is more limited than a parallel approach (side reach).

**B1** Where the forward approach (front reach) is unobstructed, locate objects no higher than 48in. (1220mm) above the floor.

*ADAAG: 1998 4.2 & ADASAD: 2010 308*

A height of 43in. (1090mm) is preferred.

See Figure RR.2

**B2** Wherever possible, locate objects, switches, outlets, and controls between 36in. (915mm) and 43in. (1090mm) above the floor.
Where the front reach is unobstructed, locate objects no lower than 15 in. (380 mm) above the floor.  
ADAAG: 1998 4.2 & ADASAD: 2010 308  
A height of 18 in. (455 mm) is preferred.

Wherever possible, locate outlets and other objects that are normally closer to the floor at a consistent height of 18 in. (455 mm) above the floor measured to the centerline of the outlet or object.

C Reduced Front Reach

When people need to reach over an obstruction to access another object or control, the distance they can reach is reduced.

C1 Ensure that an obstruction below an object or control does not extend horizontally more than 25 in. (635 mm) into the clear floor space.  
ADAAG: 1998 4.2 & ADASAD: 2010 308  
A height of 43 in. (1090 mm) is preferred.

C2 Where a front reach is over an obstruction that extends horizontally 20 in. (510 mm) or less into the clear floor space, locate objects no higher than 48 in. (1220 mm) above the floor.  
ADAAG: 1998 4.2 & ADASAD: 2010 308  
A height of 43 in. (1090 mm) is preferred.

See Figure RR.3

C3 Where a front reach is over an obstruction that extends from 20 in. (510 mm) to a maximum of 25 in. (635 mm) horizontally into the clear floor space, locate objects no higher than 44 in. (1120 mm).  
ADAAG: 1998 4.2 & ADASAD: 2010 308  
A height of 43 in. (1090 mm) is preferred.

See Figure RR.4

Example: If a 20 in. (510 mm) deep shelf is mounted below an ATM, the clear space below the shelf should be at least 20 in. (510 mm) deep.

See RT Routes and Spaces, RT-Q for additional information on legroom.