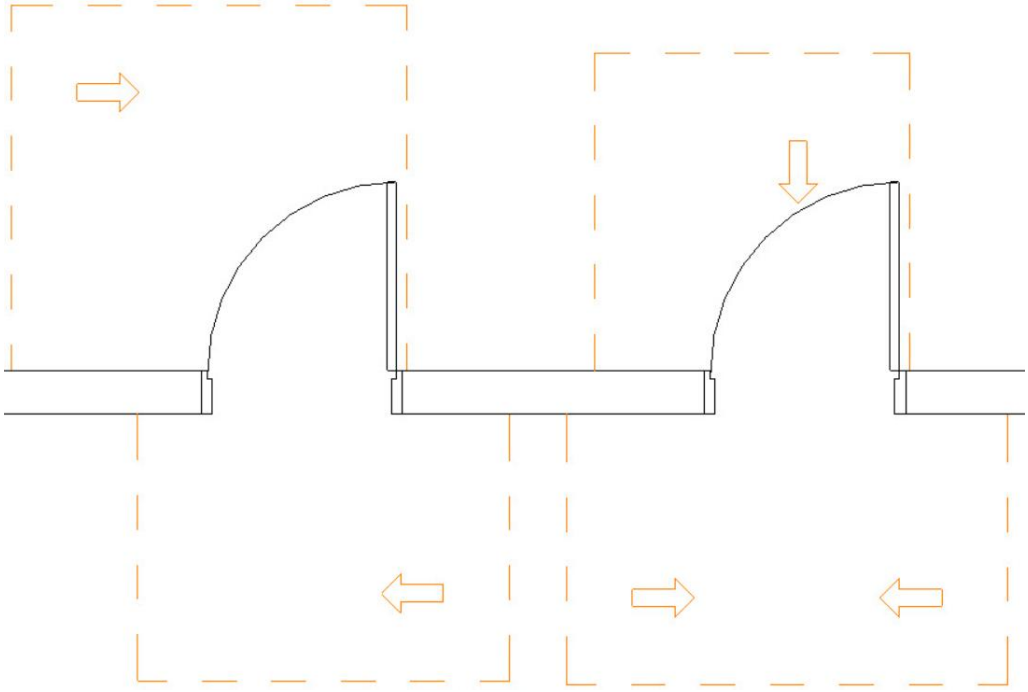
RevitWorks Door Factory: Clearance Diagrams

Using clearance diagrams within the RevitWorks Door Factory 2025 onwards.



PLEASE READ:

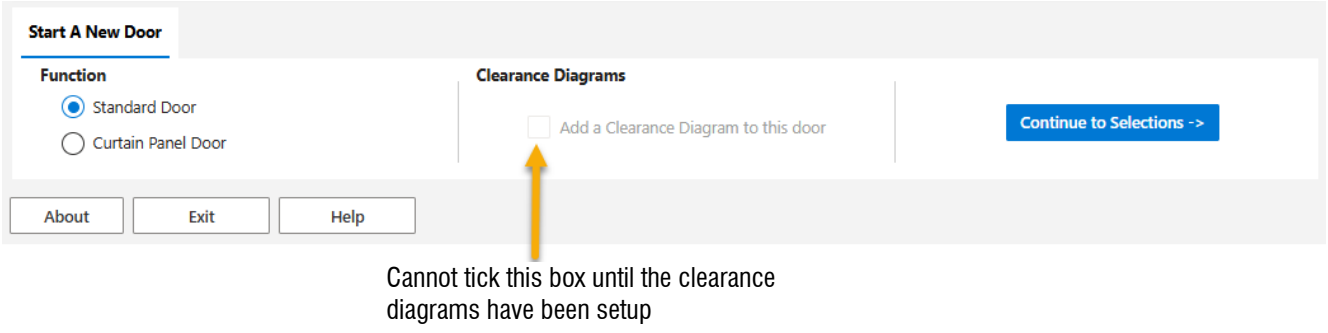
While we have done our best to ensure the clearance diagrams we have created follow the specified standards, RevitWorks Ltd expressly disclaims any warranty for this content.

This content is provided "As Is" without any express or implied warranty of any kind.

Contents

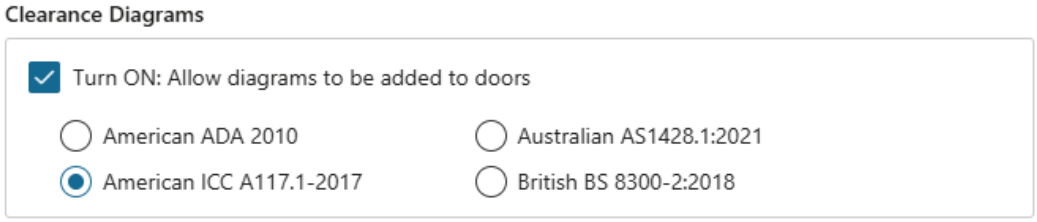
Setting up Clearance Diagrams:

When the Door Factory has been installed, the “Add a Clearance Diagram…” button will be greyed out and un-tickable

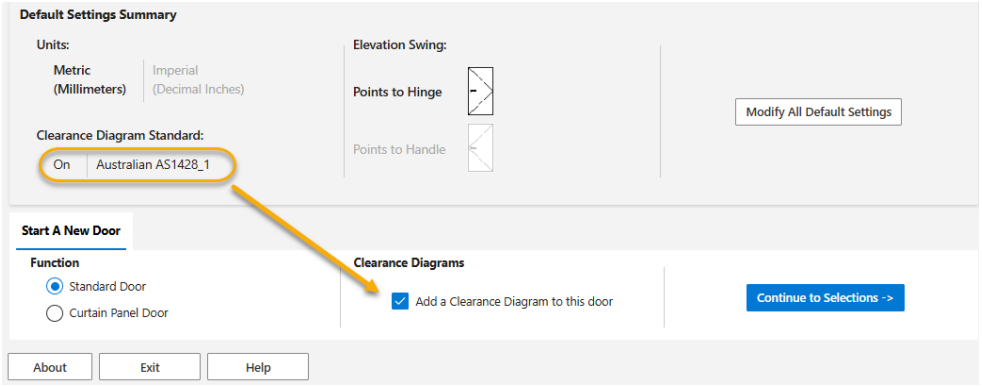


This ensures the correct clearance diagram standard is selected before they can be added to the door.
To setup, go to the Door Factory “Default Settings” and:

1. Click the “Turn ON:” checkbox and select the clearance diagram standard valid for your jurisdiction:



Once this has been done, the “Add clearance diagrams” button will be tickable and the standard used will be shown



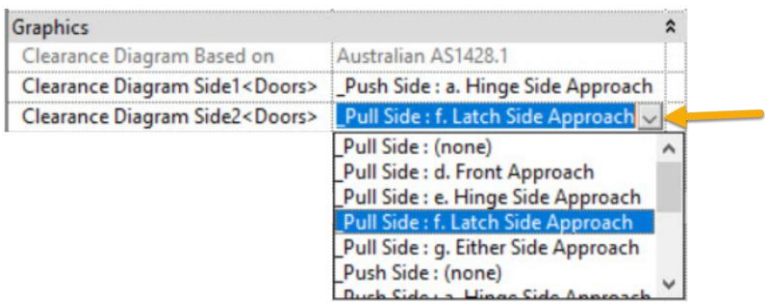
Using Clearance Diagrams within your project:

If the “Add clearance diagrams” button is ticked as per the previous page, clearance diagrams will be added to the following doors as you make them:

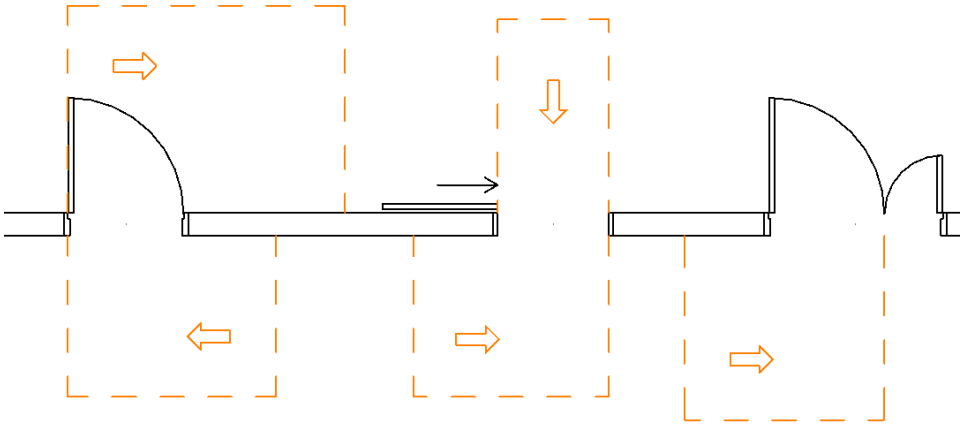
Single swing Single Swing 2way Double Swing Double wing 2 Way Single Pivot Double Pivot

Surface Slider 1+0 and 1+1 Pocket Slider 1+0 and 1+1 Contained Slider 1+1 Fixed

They are accessible within the instance parameters of the “Graphics” grouping for the door used within your project as a pull-down “family-type” parameter (they default to “(none)”.



It's then up to the user to make a valid choice for both sides of the door to suit the direction of travel. Once done, they will show up as expected in plans.



Using "Family Type" pulldown parameters:

Due to how Revit handles pull-down type selector parameters, any nested door families or shared door components in the project may appear in the clearance diagram drop-downs. Selecting these will not work as intended—only use the designated clearance diagram families. Use with care.

Clearance Diagram Collateral:

The following diagrams are what the RevitWorks clearance diagrams are based on.

It is up to you, the end user, to ensure they are relevant for your jurisdiction and project. This content is provided "As Is" without any express or implied warranty of any kind.

American ICC A117.1-2017

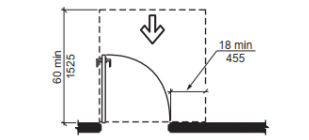


FIGURE 404.2.3.2(A)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
FRONT APPROACH - PULL SIDE

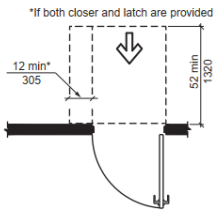


FIGURE 404.2.3.2(B)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
FRONT APPROACH - PUSH SIDE - NEW BUILDINGS

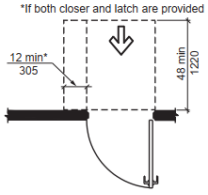


FIGURE 404.2.3.2(C)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
FRONT APPROACH - PUSH SIDE - EXISTING BUILDINGS
FOOTNOTE 5

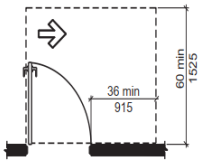


FIGURE 404.2.3.2(D)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
HINGE APPROACH - PULL SIDE

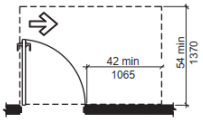


FIGURE 404.2.3.2(E)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
HINGE APPROACH - PULL SIDE

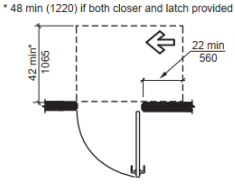


FIGURE 404.2.3.2(F)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
HINGE APPROACH - PUSH SIDE

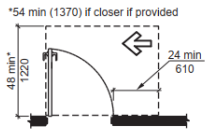


FIGURE 404.2.3.2(G)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
LATCH APPROACH - PULL SIDE

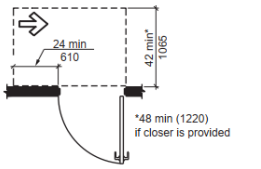


FIGURE 404.2.3.2(H)
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
LATCH APPROACH - PUSH SIDE

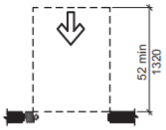


FIGURE 404.2.3.3(A)
MANEUVERING CLEARANCES AT SLIDING AND FOLDING
DOORS - FRONT APPROACH - NEW BUILDINGS

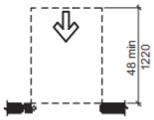


FIGURE 404.2.3.3(B)
MANEUVERING CLEARANCES AT SLIDING AND FOLDING
DOORS - FRONT APPROACH - EXISTING BUILDINGS
FOOTNOTE 2

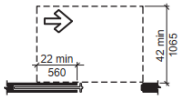


FIGURE 404.2.3.3(C)
MANEUVERING CLEARANCES AT SLIDING AND FOLDING
DOORS - POCKET OR HINGE APPROACH

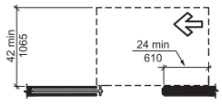


FIGURE 404.2.3.3(D)
MANEUVERING CLEARANCES AT SLIDING AND FOLDING
DOORS - STOP OR LATCH APPROACH

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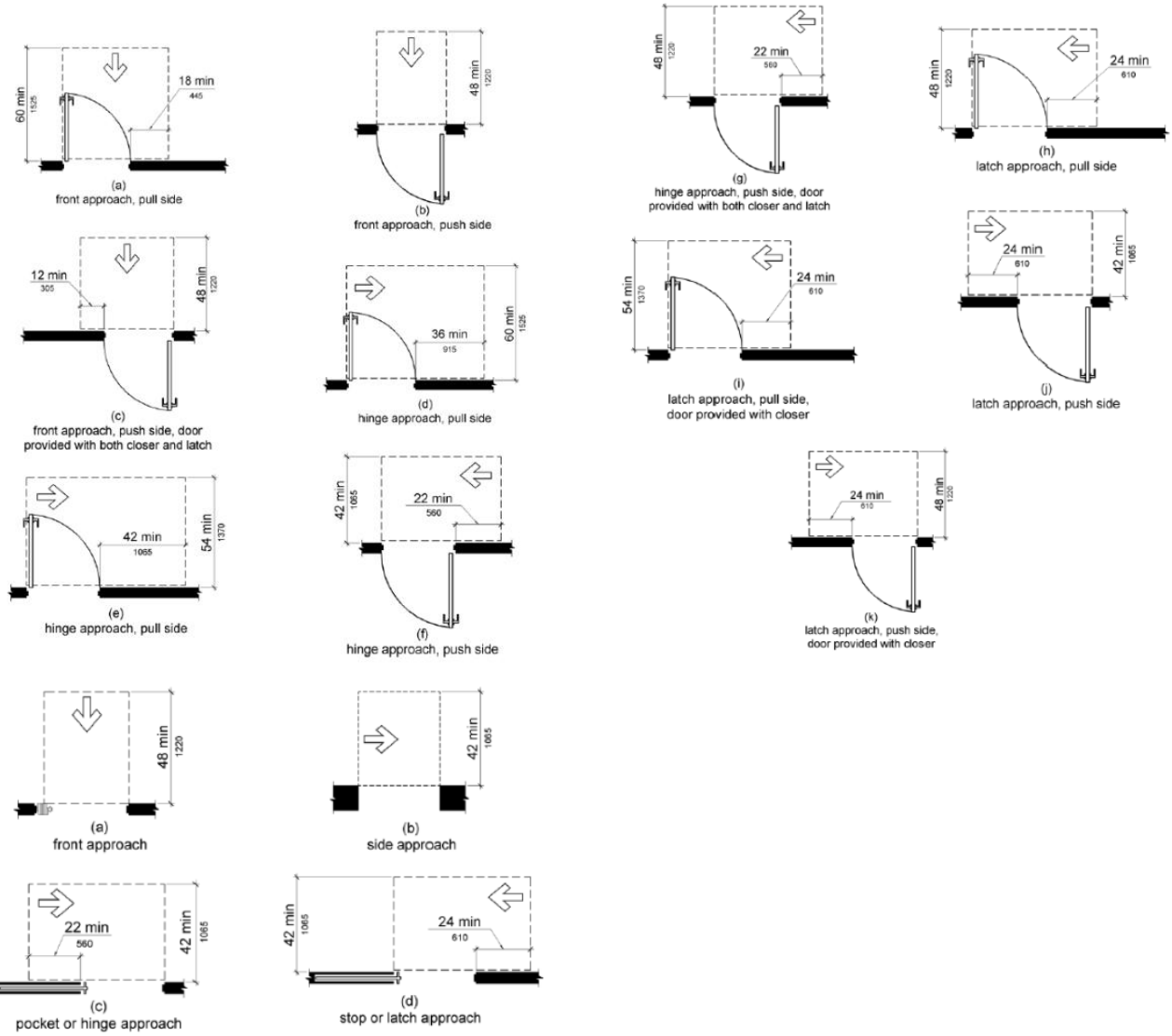
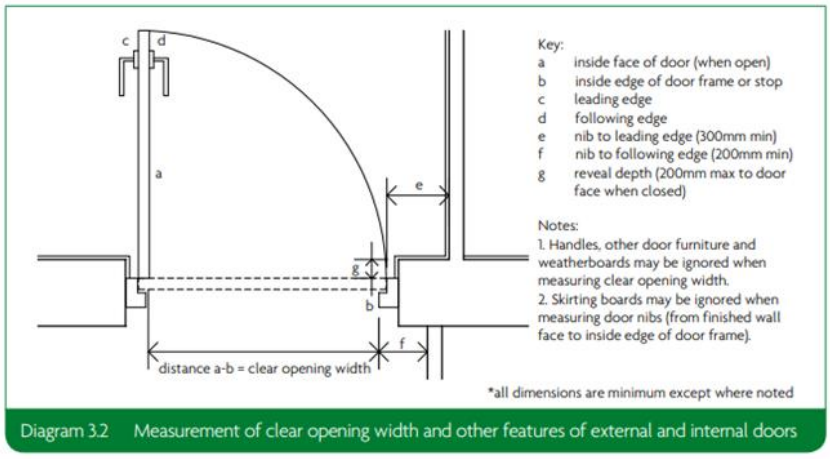
American ADA 2010



British BS 8300-2:2018



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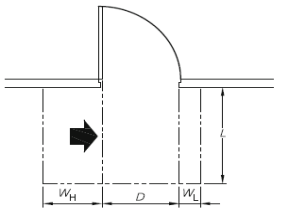
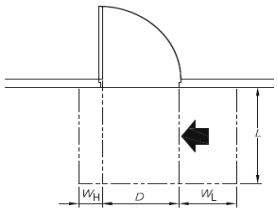
Australia / New Zealand AS1428.1 (2021)



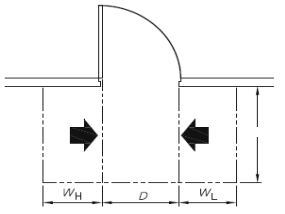
Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1220	560	340
900	1185	510	340
950	1160	460	340
1000	1140	410	340

(a) Hinge-side approach, door opens away from user



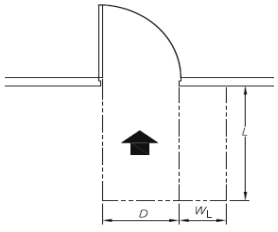
Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1240	240	660
900	1210	190	660
950	1175	140	660
1000	1155	90	660

(b) Latch-side approach, door opens away from user



Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1240	560	660
900	1210	510	660
950	1175	460	660
1000	1155	410	660

(c) Either side approach, door opens away from user

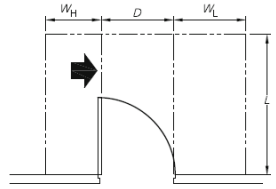


Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1450	0	510
900	1450	0	510
950	1450	0	510
1000	1450	0	510

(d) Front approach, door opens away from user

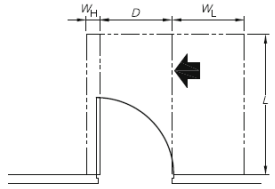
LEGEND:
D = Clear opening of width of doorway
L = Length
W_H = Width—hinge side
W_L = Width—latch side
➡ = Direction of approach
– – – = Circulation space

DIMENSIONS IN MILLIMETRES



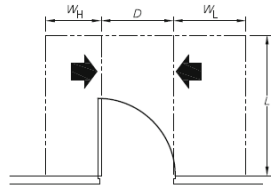
Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1670	660	900
900	1670	610	900
950	1670	560	900
1000	1670	510	900

(e) Hinge-side approach, door opens towards user



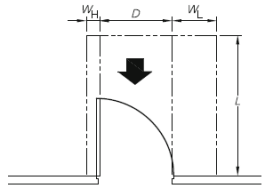
Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1670	110	900
900	1670	110	900
950	1670	110	900
1000	1670	110	900

(f) Latch-side approach, door opens towards user



Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1670	660	900
900	1670	610	900
950	1670	560	900
1000	1670	510	900

(g) Either side approach, door opens towards user

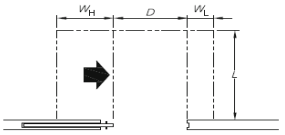


Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1450	110	530
900	1450	110	530
950	1450	110	530
1000	1450	110	530

(h) Front approach, door opens towards user

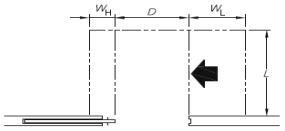
LEGEND:
D = Clear opening of width of doorway
L = Length
W_H = Width—hinge side
W_L = Width—latch side
➡ = Direction of approach
– – – = Circulation space

DIMENSIONS IN MILLIMETRES



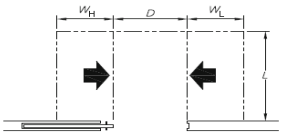
Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1280	660	395
900	1280	610	395
950	1280	560	395
1000	1280	510	395

(a) Slide-side approach



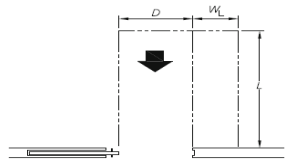
Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1230	185	660
900	1230	180	660
950	1230	180	660
1000	1230	180	660

(b) Latch-side approach



Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1280	660	660
900	1280	610	660
950	1280	560	660
1000	1280	510	660

(c) Either side approach



Dimension D	Dimension L	Dimension W_H	Dimension W_L
850	1450	0	530
900	1450	0	530
950	1450	0	530
1000	1450	0	530

(d) Front approach

LEGEND:
D = Clear opening of width of doorway
L = Length
W_H = Width—hinge side
W_L = Width—latch side
➡ = Direction of approach
– – – = Circulation space

DIMENSIONS IN MILLIMETRES

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