GUIDE TO AS1926.1 - 2012

Objective – To restrict the access of young children under the age of 5 to swimming pools

Non-climbable zone (NCZ):

The NCZ is a 900mm high vertical continuous section on the barrier, free of projections and indentations greater than 10mm. Where the NCZ is measured from depends on if the barrier is a 1200mm pool fence, or an 1800mm boundary barrier. There are 5 NCZ's to be considered in accordance with figure 2.1.

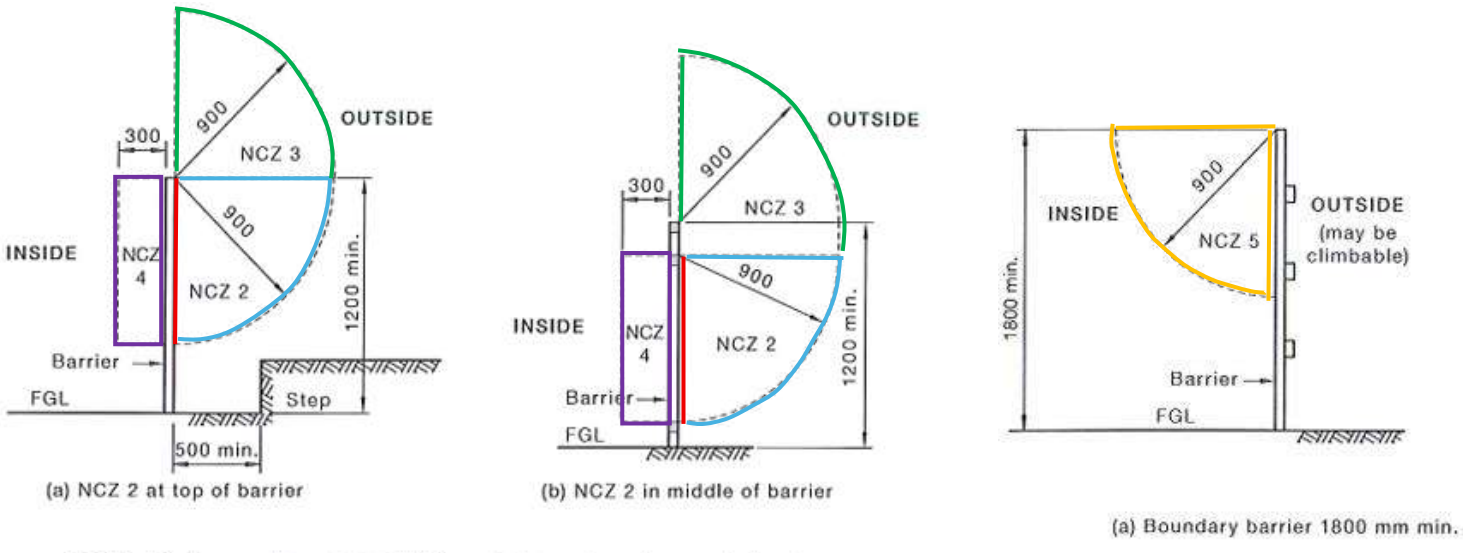
NCZ1: Is a 900mm vertical plane on the outside face of a barrier. This NCZ may be located anywhere within the perpendicular height of a barrier or, where present, anywhere between horizontal components or handholds and footholds on a barrier.

NCZ2: Is a quadrant on the outside of a barrier created by a 900mm radius down from the top of NCZ1 above. Note: NCZ2 is always immediately adjacent to NCZ1 on all barriers.

NCZ3: Is a quadrant on the outside of a barrier created by a 900mm radius up from the top of the barrier. When the top of NCZ1 is below the top of a barrier then NCZ3 shall extend vertically down to the top of NCZ1. NCZ3 is applicable only to the space created by the quadrant and does not apply to any item or component on, or that is part of, the barrier.

NCZ4: Is required on all barriers with vertical openings 10-100mm in width and is a 900mm high by 300mm deep rectangular space on the inside of the barrier and shall align with NCZ1.

NCZ5: Applies to 1800mm boundary barriers only. It is created by a 900mm radius on the inside at the top of the boundary fence.



NOTE: The lower radius point of NCZ 2 may be located anywhere on the barrier provided there are no aids for climbing within the arc.

DIMENSIONS IN MILLIMETRES

Figure 2.2.a

Boundary barriers:

Boundary barriers forming part of the effective barrier is to be measured from the internal finished ground level (FGL) (ground level or other permanent stable surface) on the inside of a barrier. (Refer figure 2.2.a) Boundary fences must be deemed non-climbable from the inside. The neighbouring side can be climbable.

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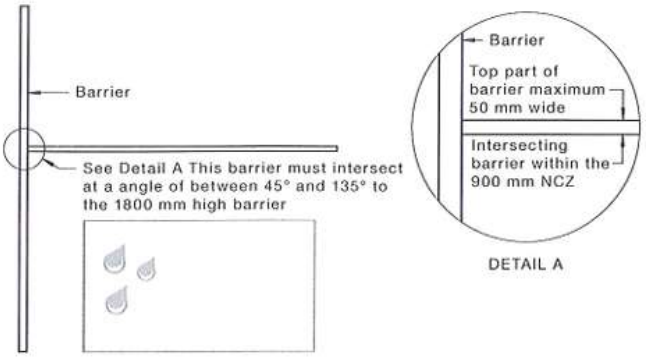
Intersections with boundary fences:

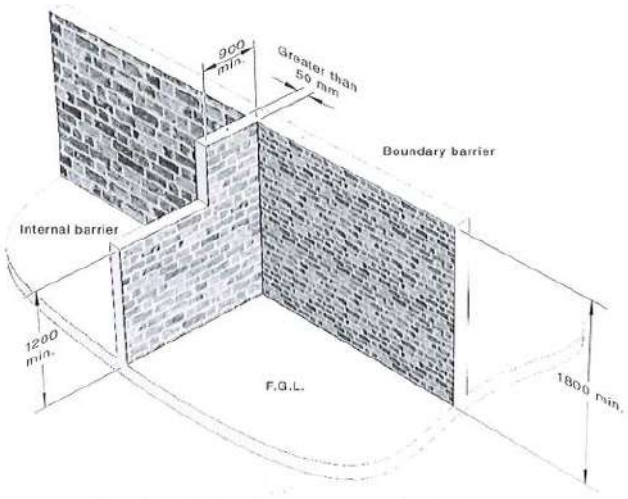
Applies when a 1200mm high barrier intersects with a boundary fence to create a pool enclosure. Where the top rail or surface of the internal 1200mm barrier is not more than 50mm wide at any point within NCZ5, it can be left with no alterations to the intersecting panels. (See figure 2.2.b)



(b) Intersecting barrier with top less than 50 mm in width

DIMENSIONS IN MILLIMETRES

Figure 2.2.b



(c) Intersecting barrier with top greater than 50 mm in width

DIMENSIONS IN MILLIMETRES

Figure 2.2.c

Intersections with boundary fences - continued:

Where the top rail or surface of the internal 1200mm barrier is greater than 50mm and is located within NCZ5, the height of the lower barrier shall extend to a height not less than 1800mm and extend not less than 900mm from the intersection (See figure 2.2.c)

1800mm high barriers:

A 1800mm high barrier that is not a boundary fence does not require any NCZ on the outside or inside of the fence.

However, if this intersects with a 1200mm pool barrier, NCZ apply. (See figure 2.3)

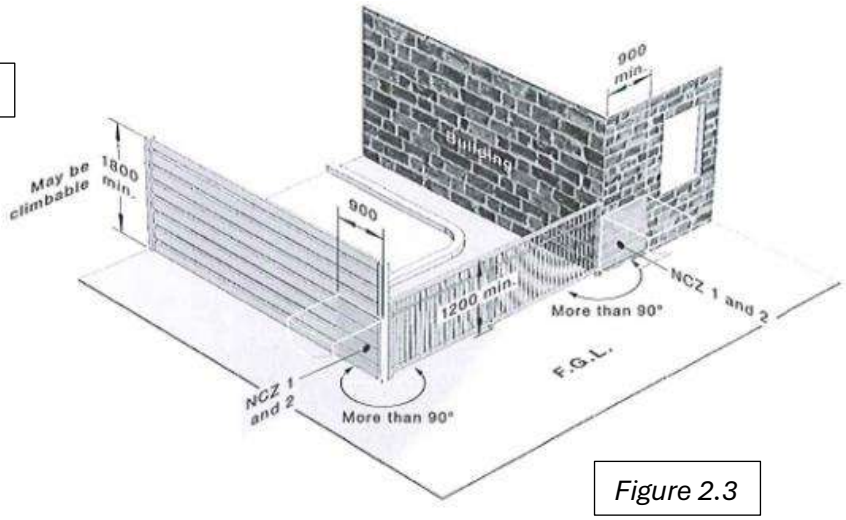


Figure 2.3

DIMENSIONS IN MILLIMETRES

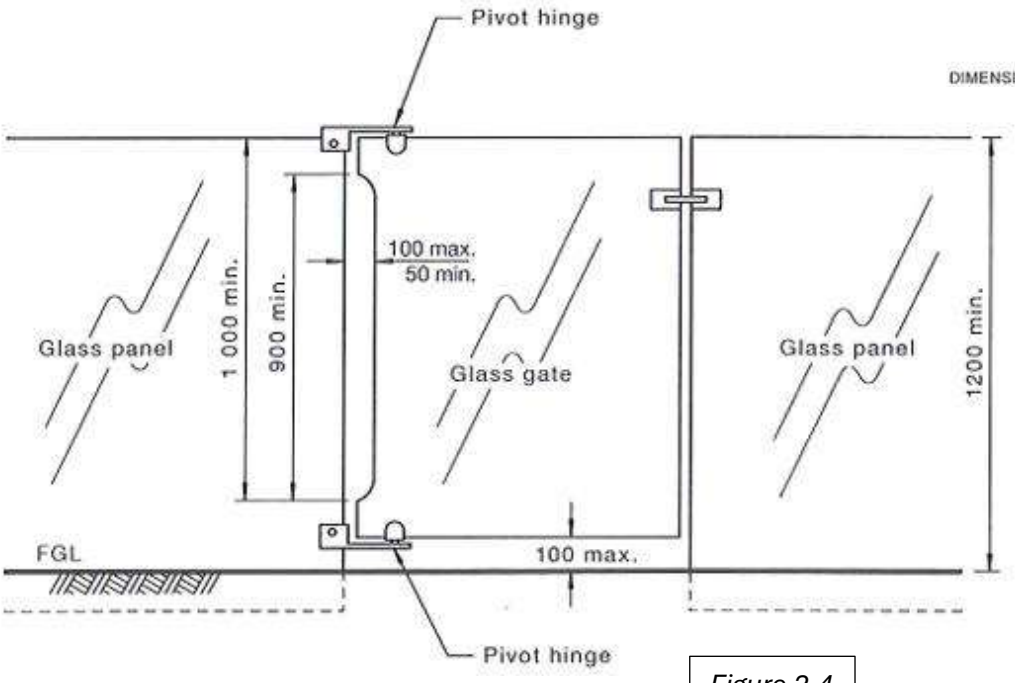


Figure 2.4

2.3.3 Glass Barriers:

Glass used in barriers shall comply with the provisions of AS 1288 and must meet the following: (See figure 2.4)

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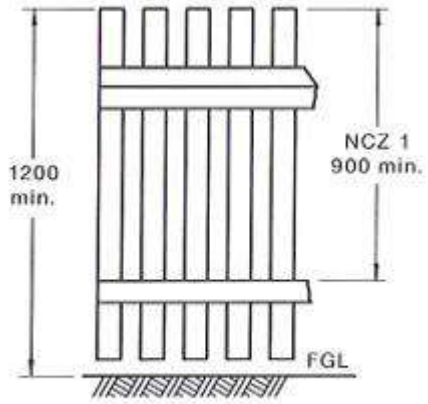
Horizontal Components:

Barriers less than 1800mm shall not incorporate horizontal components within 900mm of each other with a top surface greater than 10mm that could be used as a handhold or foothold, (see figure 2.3.5.b) unless such top surface is sloped at not less than a 60˚ angle from the horizontal plane. (see Detail A)



(b) OUTSIDE ELEVATION

Figure 2.3.5.b

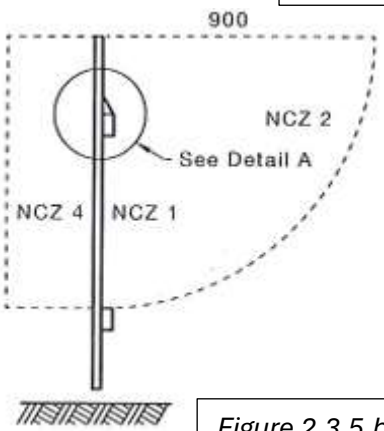
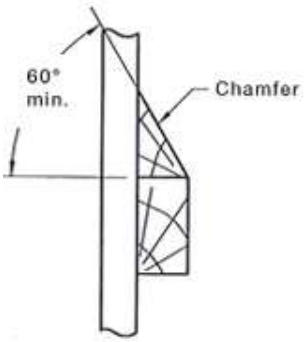


Figure 2.3.5.b



Detail A

2.6 Windows

Windows opening directly into the pool area where the lower sill height is less than 1800mm to the finished ground level require the window to be restricted to open no more than 100mm.

2.4.1.1 Operation of Gates:

Gates shall only swing outwards (away from the pool).

2.4.1.2 Self closing device:

Gates shall be fitted with a self-closing device that will close the gate from any position, with a stationary start, without the use of manual force and operate the latch.

Latch:

Gates shall be fitted with a latch that will automatically operate on the closing of the gate and will prevent the gate from being re-opened without being manually released. See figures 2.9 for latch location.

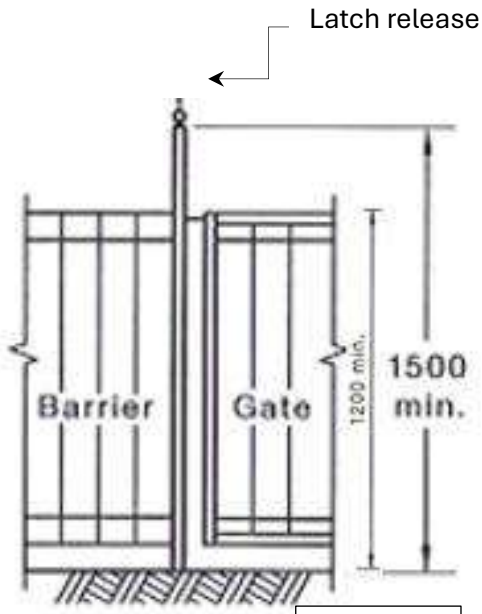


Figure 2.9

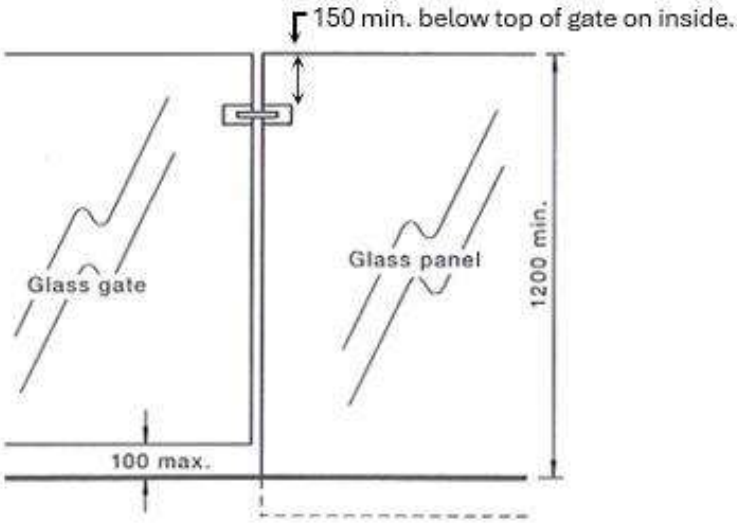


Figure 2.9

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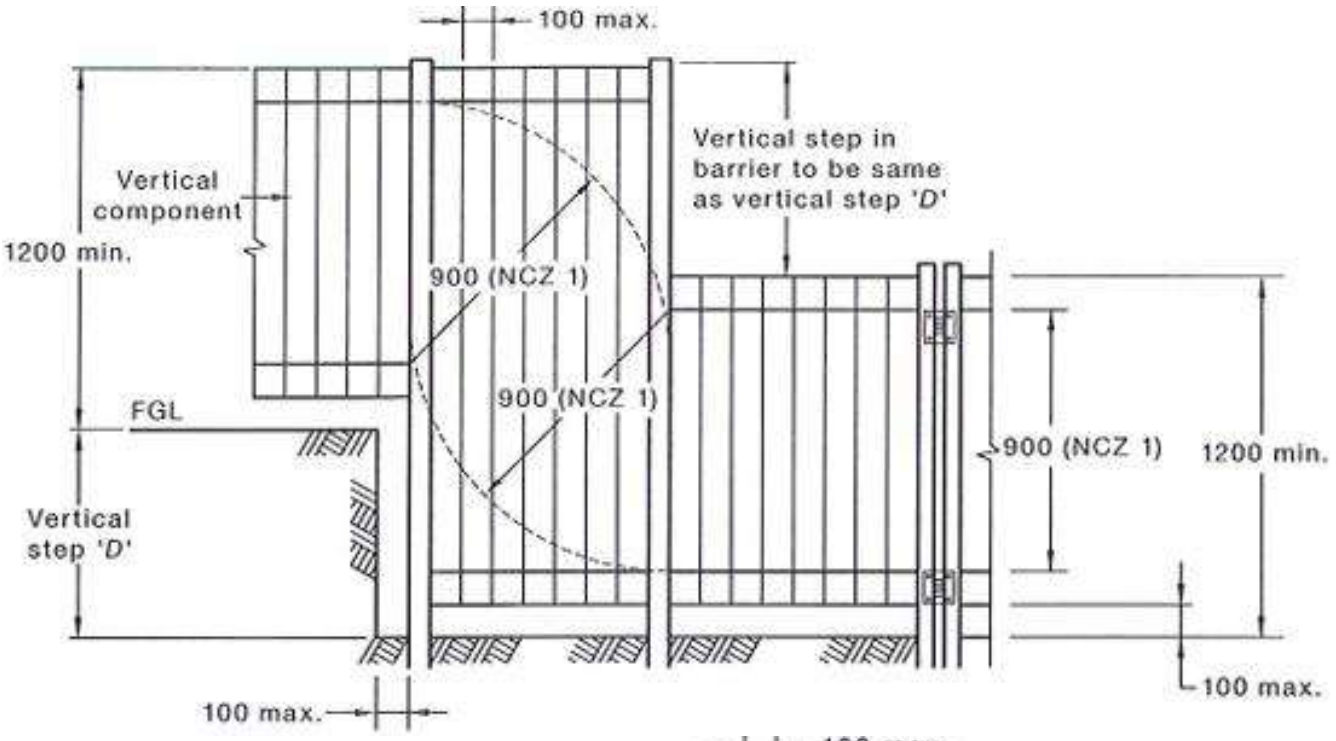
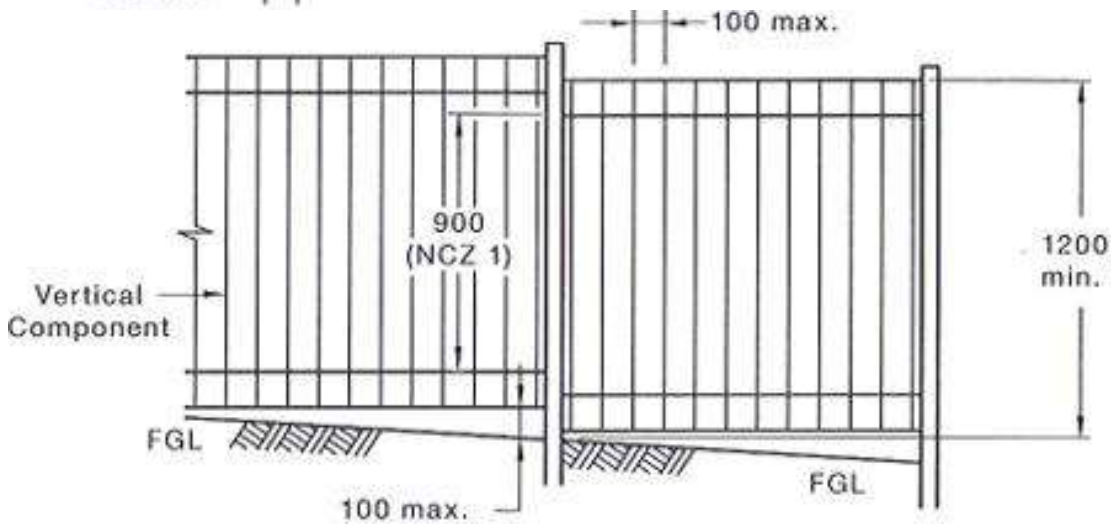
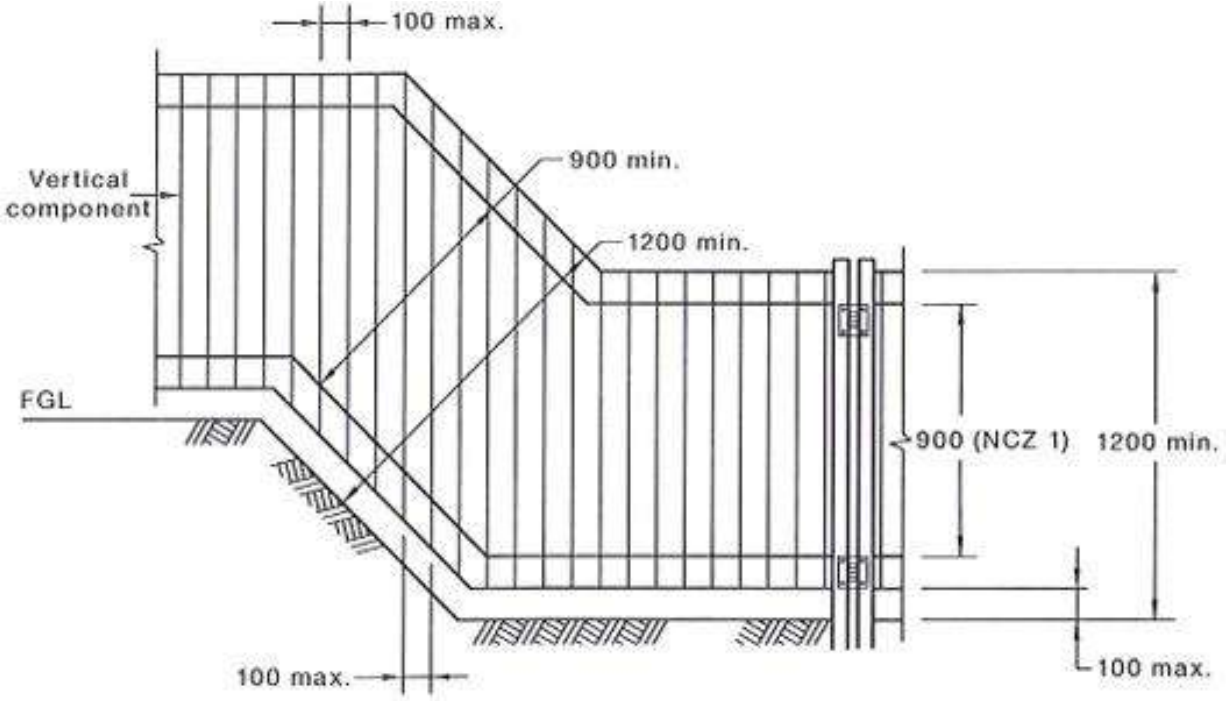
Safety Barriers on sloping & stepped sites







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