

Technical Bulletin

1004 – Standoff fixing layout guidance

March 2022 - V1.0



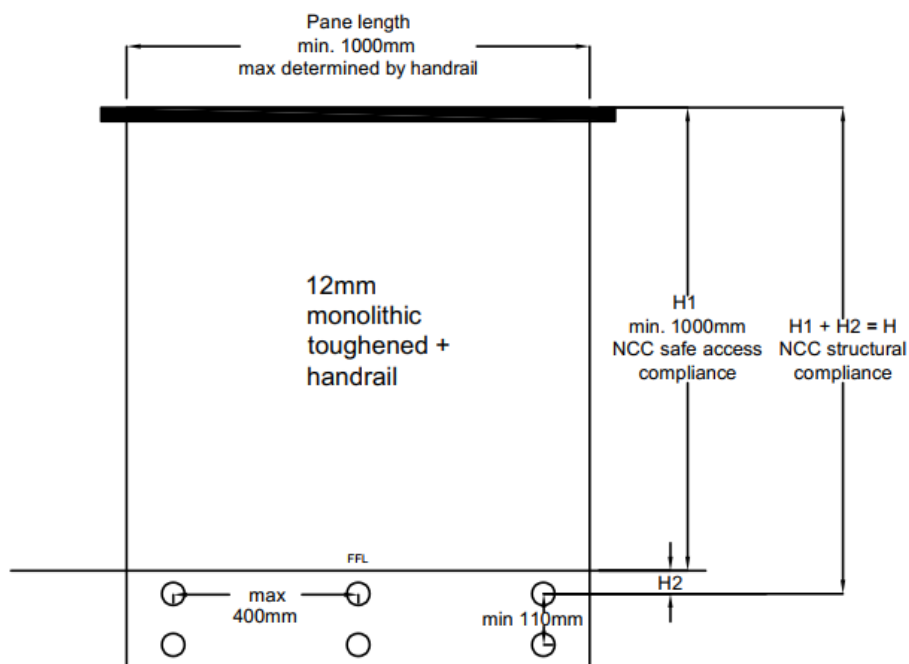
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TB 1004 – Standoff fixing layout guidance

This document is provided as guidance only. It does not constitute an engineering report or other form of NCC compliance. Rather, its intended use is to illustrate the capability of AGG Tempershield® monolithic toughened glass, SkyGlass® and SkyGlass Ultra® toughened structural laminate when used with 50mm diameter standoff patch fixings. Any cantilevered barrier as illustrated in this document requires a performance based Alternative Solution report to demonstrate compliance with the NCC.

38mm diameter standoff fixings are not recommended.

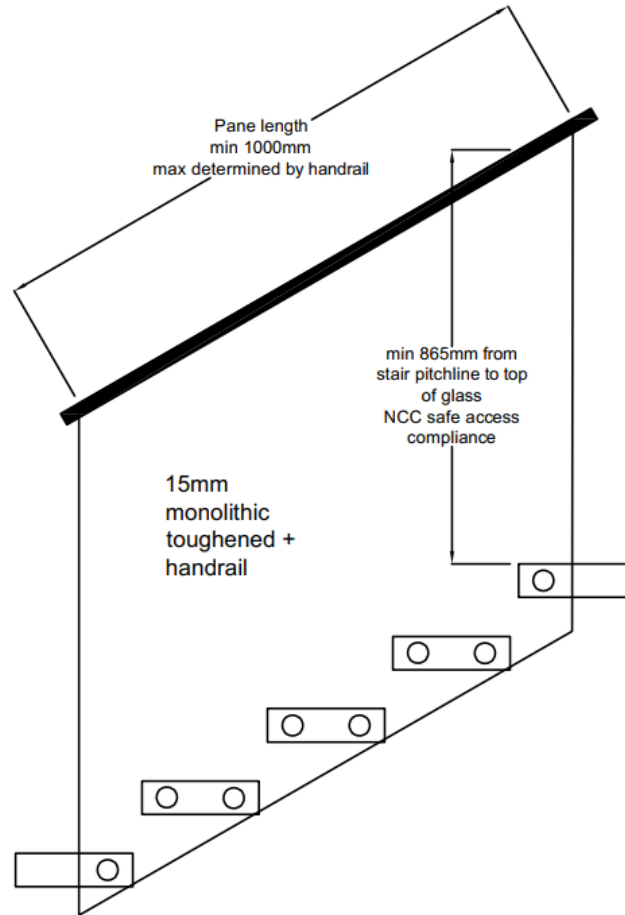
Tempershield® Monolithic toughened glass + handrail



Key Points

- Max horizontal centres: 400mm
- Min vertical centres: 110mm, or min 200mm for blockwall
- Min pane length: 1000mm
- Max pane length: determined by handrail
- Occupancy types: residential internal (A), residential external (A other), Commercial (B, E, C3)
- H1 = FFL to top of glass. Min: 1000mm for NCC compliance
- H2 = Top fixing to FFL. Min: 25 to 50mm depending on substrate
- H = H1 + H2. Max: 1100mm for timber. Max 1150mm for 12T. Max 1250mm for 15T
- **Engineering report required for NCC compliance. Engineering report to be completed prior to ordering/installation of glass**

Angled pane up stairs



Key Points

- 2 fixings per tread
- Normally 15mm Toughened + interlinking handrail
- Min pane length: 1.0m
- Max pane length: determined by handrail
- Min: 865mm from stair pitchline to top of glass for NCC compliance.
- Occupancy types: residential internal (A), residential external (A other), Commercial (B, E, C3)
- Pane geometry & fixing layout vary greatly from project to project
- **Engineering report required for NCC compliance. Engineering report to be completed prior to ordering/installation of glass**

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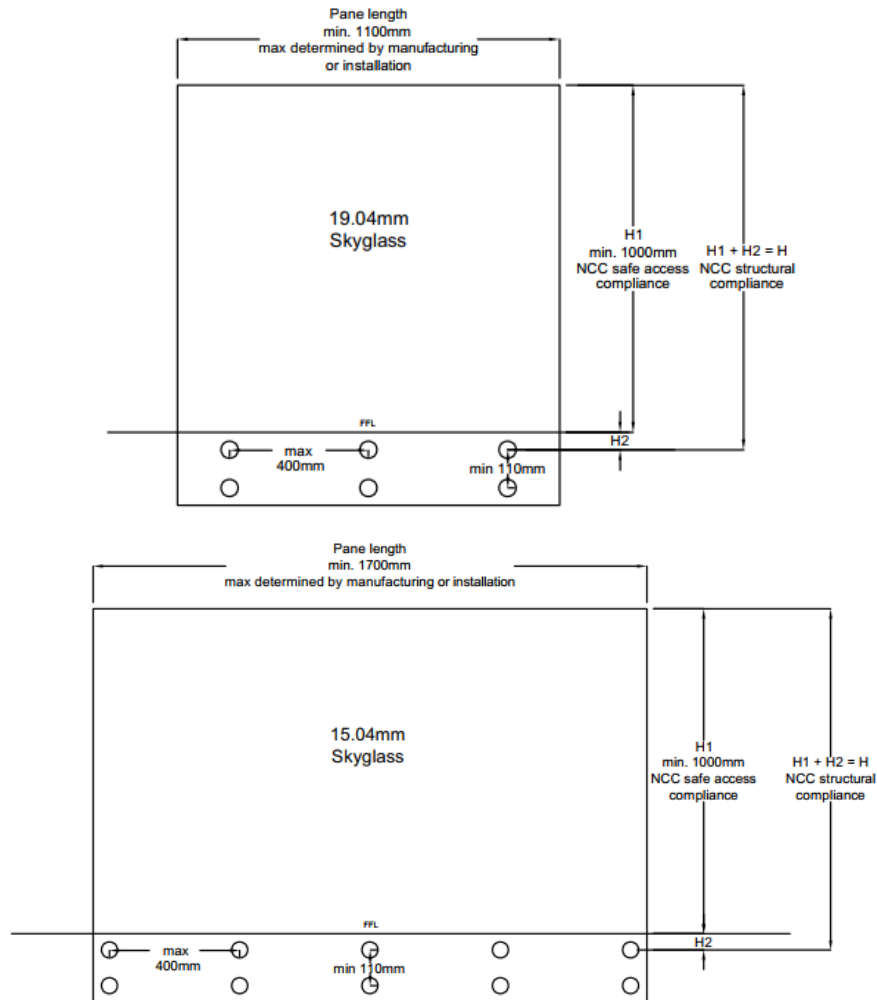
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SkyGlass® - No handrail



Key Points

- Max horizontal centres: 400mm
- Min vertical centres: 110mm, or min 200mm for blockwall
- Min pane length: 1100mm for 19.04mm, or min 1700mm for 15.04mm
- Max pane length: determined by manufacturing or installation limitations
- Occupancy types: residential internal (A), residential external (A other), Commercial (B, E, C3)
- H1 = FFL to top of glass. Min: 1000mm for NCC compliance
- H2 = Top fixing to FFL. Min: 25 to 50mm depending on substrate
- H = H1 + H2. Max: 1100mm for timber. Max: 1150mm for 15.04mm, max 1250mm for 19.04mm.
- **Engineering report required for NCC compliance. Engineering report to be completed prior to ordering/installation of glass.**

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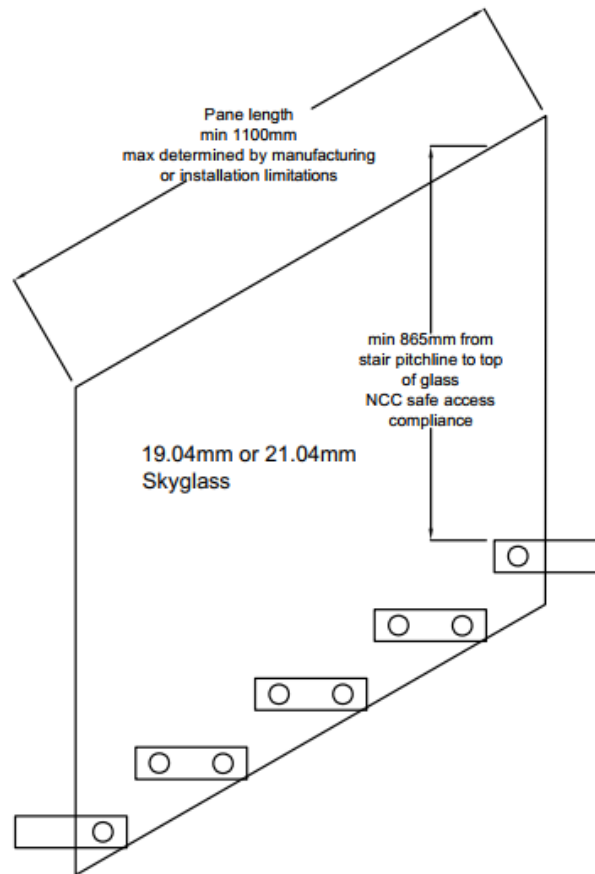
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Angled pane up stairs



Key Points

- 2 fixings per tread
- Normally 19.04 or 21.04mm SkyGlass®
- Min: pane length 1100mm
- Min: 865mm from stair pitchline to top of glass for NCC compliance
- Max pane length: determined by manufacturing capabilities or installation limitations
- Occupancy types: residential internal (A), residential external (A other), Commercial (B, E, C3)
- Pane geometry & fixing layout vary greatly from project to project
- **Engineering report required for NCC compliance. Engineering report to be completed prior to ordering/installation of glass**

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