DWYER
QUALITY HOMES

256 Nicklin Way, Warana QLD 4575
P: 07 5436 7900
www.dqh.com.au
E: admin@dqh.com.au
ABN: 34 626 121 922 | QBCC: 15098788

BRICKLAYERS SPECIFICATION

- Check that the bricks delivered to site match the specification provided with your PO.
- Check specification for mortar colour and type of joint requested.
- Ensure the first single height course of brickwork is backfilled with mortar prior to placement of the termite barrier and dampcourse.
- You will usually be required to liaise with the termite barrier installer to coordinate the installation. Please ask your supervisor for contact details if they have not been provided.
- Ensure dampcourse is installed behind the building paper and carried out to the face of the brickwork. Stopping the DPC short of the face will result in failure to comply with the NCC and AS 3700.
- Brick sill DPC should be kept approx. 20mm from the face of the bricks below to enable a bond for the brick sill. Ensure window brick sills have clearance to the underside of the aluminium to avoid “heave” on reactive sites (the thickness of a carpenter’s pencil is usually considered sufficient).
- Ensure brick cavities are kept clean and free of mortar droppings.
- Control joints (AJ’s) must be clean and straight. Articulation ties should be installed or alternatively, brick ties installed at 600mm max ctrs either side of joint
  AJ’s specified at window and door locations must be spaced off the window frame to provide continuous articulation. This will require the builder to provide angles to cover the joint or in some cases, depending on the finish, sealant may be used.

  The following options may be used to for articulation;

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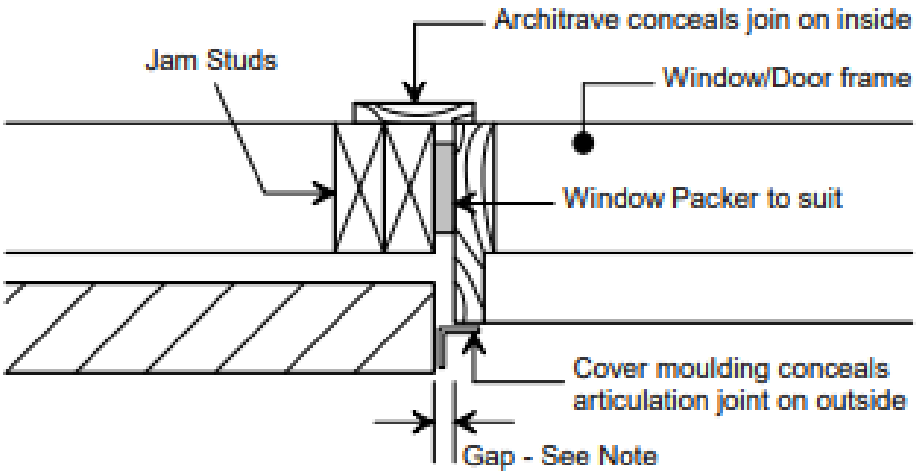
Fixing of Window /Door Frames at Articulation Joints



Note: 10mm total provision for horizontal movement to be allowed between brickwork and window (refer manufacturer where applicable)

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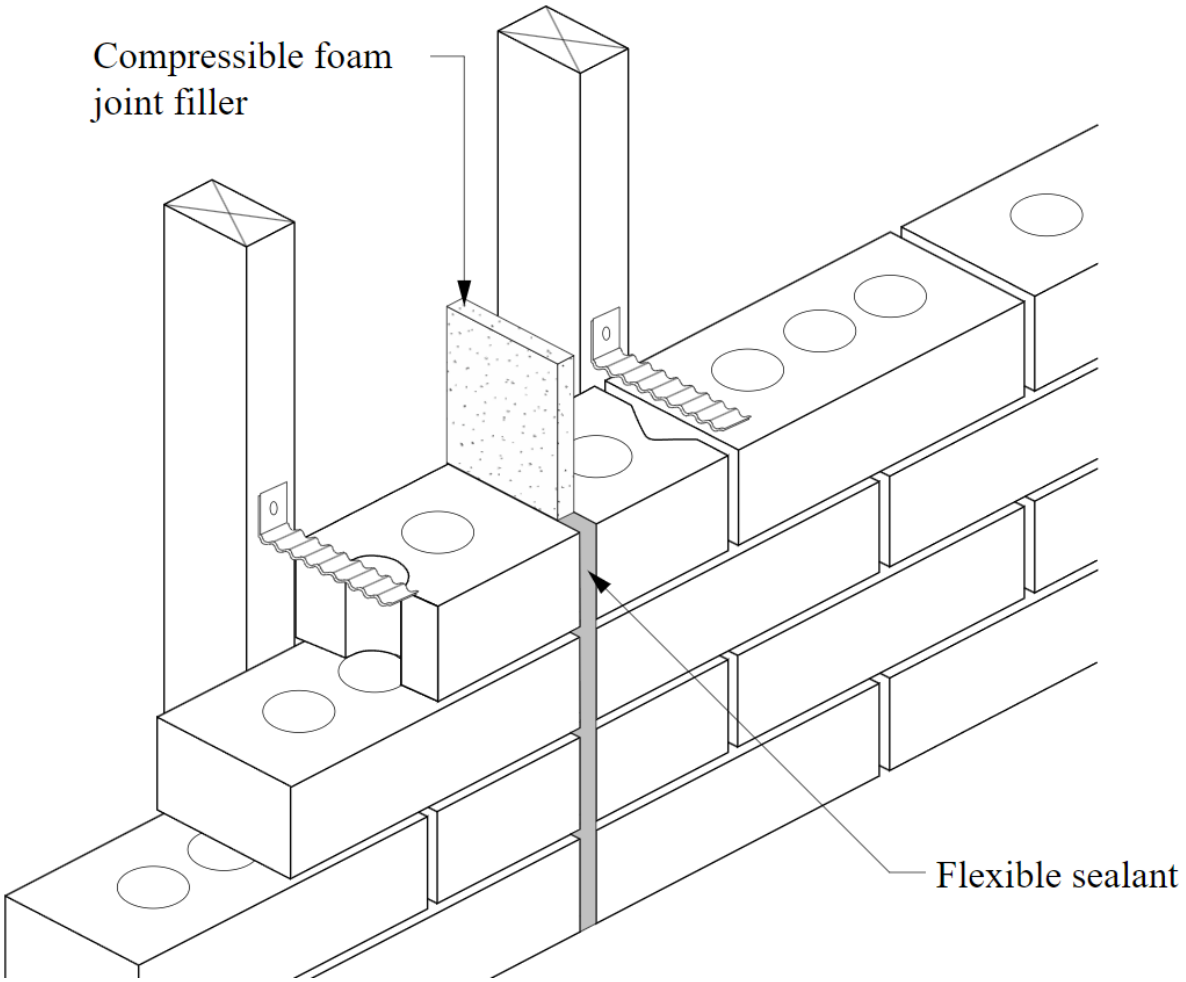

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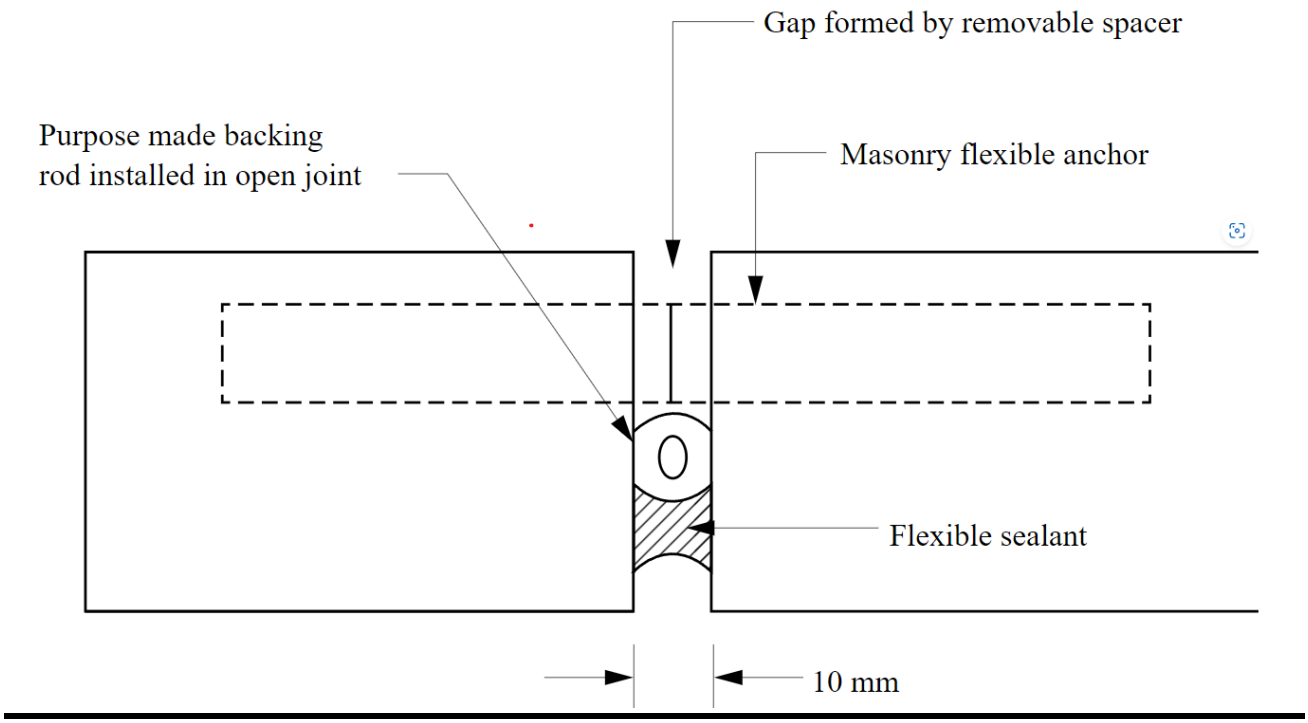

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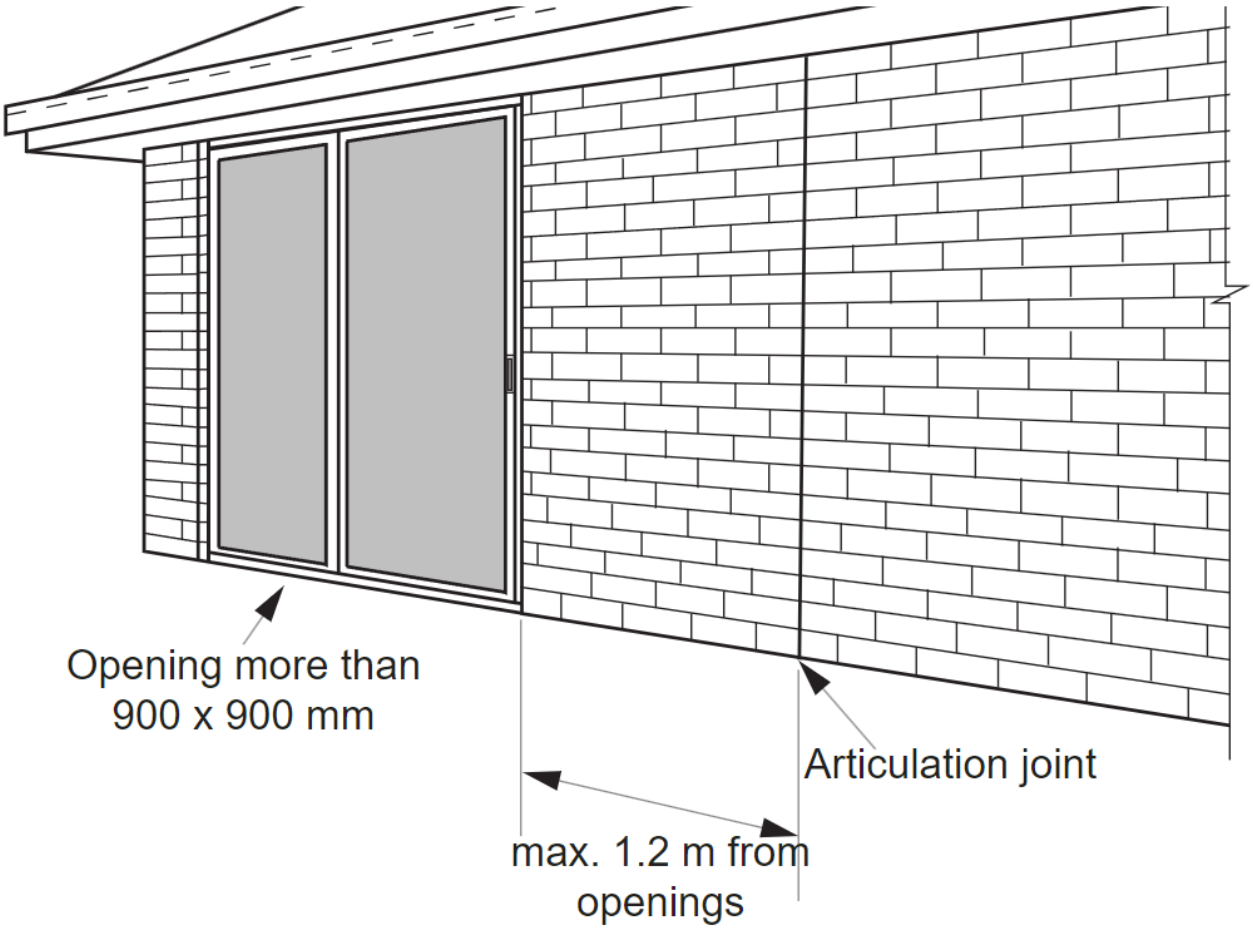

- Windows and doors must be kept clean of mortar on a regular basis – do not wait until the job is finished to clean up as this is often too late and results in damage that is costly to rectify.
- Where render is to be applied to common brickwork, we generally tile the sill to protect it from wear and tear. Please leave a 15mm gap between the top of your brick sill and the underside of sliding door or self draining swing door sill (e.g. Corinthian Enviro sills and some alum door extrusions) This will enable the tiler enough space to slip the tile under the sills to fully support them and ensure drainage holes are not obstructed.
- Galv lintels must have min 100mm bearing either side of openings up to 1M and 150mm for openings greater than 1M. Long lintels must be propped to

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avoid sagging until bricks have dried. A guide to Gal lintels is attached at the back of this manual.

- BAL rated homes require weephole protection to prevent ember attack. DQH will provide these, along with your brick ties and dampcourse. For a rendered finish, please set them up approx. 6mm proud of the brick to allow for the thickness of the render. It is best practice to leave the Weepa Protectors slightly lose so that the renderer can adjust them to suit the render finished surface.
- Please stack empty pallets at the front boundary so they can be more easily collected.
- Please use bins provided for brick waste to keep the site tidy. Sometimes there may be a dedicated bin provided for bricks only – please check with your supervisor to see if this is the case.
- Front door sills on rendered homes will generally have a tile specified to protect the step. In the case of an aluminium sill (mostly used on BAL rated homes) it is important that you keep the brick sill a minimum of **12mm below the sill** so that the tiles do not cover the weepholes on the front of the sill.

NCC Part 5.2

SCAN ME

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Traditional Flat

Traditional Flat 85x7 Section Properties

TRADITIONAL FLAT BAR 85x7		
PROPERTY	VALUE	UNITS
AREA	595.00	mm2
PERIMETER	184.00	mm
MOMENT OF INERTIA		
Ix	2,429.58	mm4
Iy	358,239.58	mm4
POLAR	360,669.17	mm4
ROTATION ANGLE FROM DRAWING TO PRINCIPLE AXIS		
ABOUT Z AXIS	0.00	DEG
RADII OF GYRATION W/ RESPECT TO PRINCIPLE AXIS		
R1	2.02	mm
R2	24.54	mm

Traditional Flat 85x7 Load Tables

TRADITIONAL FLAT BAR 75x10						
Span (mm)	600	700	800	900	1000	1200
Bar Length (mm)	800	900	1000	1100	1200	1500
UDL (kg/m)	35.3	22.2	14.9	10.4	7.6	4.4
Point Load (kg)	13.2	9.7	7.4	5.9	4.8	3.3

Notes:
1. For load tables lintels are considered to be simply supported at both ends.
2. Bar length is span +150mm at each end for opening over 1m, +100mm for opening up to 1m.
3. Highlighted cells are deflection limited at 1/500 of span.
4. Cells not highlighted are limited by material yield.
5. Lintels are to be loaded such that the load acts vertically.
6. All loads are to be considered including the lintel and any brickwork.
7. Loads provided are un-factored loads of both live and dead loads combined.
8. Hot-dip galvanised to AS/NZS4680 with an R3 rating to AS2699.3

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Solid Base Angle

Solid Base Angle 100x100x6 Section Properties

SOLID BASE ANGLE 100x100x6		
PROPERTY	VALUE	UNITS
AREA	1,099.19	mm2
PERIMETER	397.08	mm
MOMENT OF INERTIA		
Ix	1,601,059.97	mm4
Iy	414,473.47	mm4
POLAR	2,015,533.43	mm4
ROTATION ANGLE FROM DRAWING TO PRINCIPLE AXIS		
ABOUT Z AXIS	43.27	DEG
RADII OF GYRATION W/ RESPECT TO PRINCIPLE AXIS		
R1	38.17	mm
R2	19.42	mm

Solid Base Angle 100x100x6 Load Tables

SOLID BASE ANGLE 100x100x6							
Span (mm)	700	1000	1200	1500	1800	2100	2400
Bar Length (mm)	900	1200	1500	1800	2100	2400	2700
UDL (kg/m)	9,526.1	4,667.8	2,904.4	1,487.1	860.6	541.9	363.1
Point Load (kg)	3,334.2	2,333.9	1,944.9	1,394.1	968.1	711.3	544.6

Notes:
1. Based on non-composite loading.
2. For load tables lintels are considered to be simply supported at both ends.
3. Bar length is span +150mm at each end for opening over 1m, +100mm for opening up to 1m.
4. Highlighted cells are deflection limited at 1/500 of span.
5. Cells not highlighted are limited by material yield.
6. Lintels are to be loaded such that the load acts vertically.
7. All loads are to be considered including the lintel and any brickwork.
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Solid Base Angle

Solid Base Angle 150x100x6 Section Properties

SOLID BASE ANGLE 150x100x6		
PROPERTY	VALUE	UNITS
AREA	1,403.88	mm2
PERIMETER	503.99	mm
MOMENT OF INERTIA		
Ix	3,703,711.63	mm4
Iy	638,805.98	mm4
POLAR	4,342,517.61	mm4
ROTATION ANGLE FROM DRAWING TO PRINCIPLE AXIS		
ABOUT Z AXIS	22.65	DEG
RADII OF GYRATION W/ RESPECT TO PRINCIPLE AXIS		
R1	51.36	mm
R2	21.33	mm

Solid Base Angle 150x100x6 Load Tables

SOLID BASE ANGLE 150x100x6								
Span (mm)	1500	1800	2100	2400	2700	3000	3300	3700
Bar Length (mm)	1800	2100	2400	2700	3000	3300	3600	4000
UDL (kg/m)	3,359.4	1,990.7	1,253.6	839.8	589.8	430.0	323.1	229.2
Point Load (kg)	2,519.5	2,099.6	1,645.4	1,259.8	995.4	806.3	666.3	530.0

Notes:
1. Based on non-composite loading.
2. For load tables lintels are considered to be simply supported at both ends.
3. Bar length is span +150mm at each end.
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