The proposed envelope has been developed to prevent additional overshadowing to the public domain in particular the relevant public places as outlined in the clause 6.19 of the Sydney Local Environmental Plan (LEP) 2012.

The public places and times identified in the LEP within the sites proximity that could potentially be impacted upon include:
- Australia Square: 12:00-14:00
- Lang Park: 12:00-14:00
- Macquarie Place: 10:00-14:00

The following shadow impact analysis has been undertaken on April 14, June 21 and August 31 during the specified times to demonstrate the achievement of this clause. The analysis has taken into consideration all of the currently proposed indicative tower envelopes and built forms that have been granted development consent by council on the APDG block. These include:
- DA Stage 2 at 33-35 Pitt Street
- Stage 2 Envelope A at 1 Alfred Street
- Stage 2 Envelope B at 1 Alfred Street

The results illustrate that the proposed envelope will not result in any additional overshadowing of Australia Square, Lang Park or Macquarie Place within the specified times. The additional overshadowing caused by the proposed envelope will have minimal to no additional impact on the public domain. Much of the shadows cast by the proposed envelope have minimal additional contribution to overshadowing when reviewed in conjunction with the DA Stage 2 to the north of the subject site at 33-35 Pitt Street.
14 April 10am, 12pm and 2pm

Image 1.69 14 April 10am
Image 1.70 14 April 12pm
Image 1.71 14 April 2pm

Existing shadow
Additional shadow
Locations requiring no additional overshadowing as per the LEP Controls
- Australia Square Plaza
- Macquarie Place

358 99
21 June 10am, 12pm and 2pm

Existing shadow
Additional shadow
Locations requiring no additional overshadowing as per the LEP Controls
- Australia Square Plaza
- Macquarie Place
31 August 10am, 12pm and 2pm

Image 1.75 31 August 10am

Image 1.76 31 August 12pm

Image 1.77 31 August 2pm

Locations requiring no additional overshadowing as per the LEP Controls:
- Australia Square Plaza
- Macquarie Place
14 April 1pm - 2pm
(15 minutes intervals)
21 June 1pm - 2pm
(15 minutes intervals)
31 August 1pm - 2pm
(15 minutes intervals)

Image 1.88 21 June 1:00pm
Image 1.89 21 June 1:15pm

Existing shadow
Additional shadow
Locations requiring no additional overshadowing as per the LEP Controls
- Australia Square Plaza
- Macquarie Place
Locations requiring no additional overshadowing as per the LEP Controls:
- Australia Square Plaza
- Macquarie Place

Existing shadow
Additional shadow
Locations requiring no additional overshadowing as per the LEP Controls
- Australia Square Plaza
- Macquarie Place