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## Lampiran. 1 Dokumentasi Persiapan Material



(a)



(b)



(c)

( a ) penghancuran *refractory bricks*; ( b ) pencucian agregat;

( c ) penjemuran agregat halus.

## Lampiran. 2 Dokumentasi Pembuatan Benda Uji



(a)



(b)



(c)



(d)

( a ) *Mixer* benda uji; ( b ) Uji slump; ( c ) Mencetak benda uji;  
(d) Membuka cetakan benda uji.

### Lampiran. 3 Dokumentasi Perawatan Benda Uji



Curing benda uji

## Lampiran. 4 Dokumentasi Pengujian



(a)



(b)

( a ) Pengujian benda uji ; ( b ) Data logger dan komputer untuk merekam hasil pengujian.