



File: 3955  
September 23, 2004

Mr. Keven Rector, B. Tech.  
Technical Services Manager  
NUDURA Corporation  
80 Ellis Drive, Unit No. 1  
Barrie, On  
L4M 6E7

REGULATION 82-20 UNDER THE FIRE PREVENTION ACT – REQUIREMENT FOR PROTECTION OF FOAMED PLASTIC INSULATION

We are in receipt of a September 20, 2004 letter from G. Abbas Nanji, P. Eng. of ULC confirming that in June of 2004, ULC performed a fire test of NUDURA 6 inch core insulated concrete form wall assembly in conformance with CAN/ULC S101-04.

For the test, standard commercial, 1/2" (12.7 mm) gypsum board was fastened at 16" (400 mm) o/c into the NUDURA polypropylene web fastening strips using #6 x 2" (50 mm) long drywall screws. It is our understanding that joints were taped and rough crack-filled.

Test observations confirmed that the gypsum board protecting the foamed plastic insulation of the form did not begin to delaminate from the wall assembly until 15 min - 50 secs into the test.

Our office accepts this ULC test result as evidence that NUDURA, when assembled as noted in this letter, meets the requirement of Regulation 82-20 under the Fire Prevention Act for a minimum 15 minute protection of foamed plastic insulation.

Sincerely,

A handwritten signature in black ink that reads "Kimberly Boone".

Kimberly Boone  
Technical Services & Codes Section



R21415

September 20, 2004

Mr. Keven Rector  
Technical Services Manager  
NUDURA Corporation  
80 Ellis Drive, Unit No. 1  
Barrie, ON  
L4M 6E7

**RE: OBSERVATIONS FROM A FIRE TEST OF NUDURA 6 INCH CORE INSULATED  
CONCRETE FORM WALL ASSEMBLY.**

Dear Mr. Rector:

Per your request, we have examined the test data which we obtained during performance of the fire resistance rating test conducted on your 6 inch (150mm) core NUDURA Insulated Concrete Form wall assembly at our Scarborough Ontario Testing Laboratories on June 25, 2004. This wall assembly was subjected to the maximum design load and exposed to a fire test in accordance with CAN/ULC S101-04 (*Standard Methods of Fire Endurance Tests of Building Construction and Materials*). The NUDURA Wall assembly specimen was clad using standard commercial 1/2" (12.7 mm) thick gypsum board fastened at 16" (400 mm) o/c into the NUDURA Polypropylene Web Fastening Strips using #6 x 2" (50mm) long drywall screws. The board density was verified at a minimum density of 1.601 lbs/sf (7.83 kg/m<sup>2</sup>)

Observations of the exposed side (fire side) of the wall confirmed that the standard gypsum board did not begin to delaminate from the wall assembly until 15 minutes and 50 seconds into the test.

Any questions regarding this letter should be directed to the undersigned.

Regards,

Claude Travers, P.Eng.  
Project Engineer  
Fire Protection Division

Reviewed by:

G. Abbas Nanji, P. Eng.  
Engineering Group Leader  
Fire Protection Division

