




CCHYDRO™

Concrete on a Roll

FIRE CERTIFICATION

- 
RAIL
- 
ROAD
- 
MINING
- 
PETROCHEM
- 
AGRO
- 
UTILITIES
- 
PUBLIC WORKS
- 
DEFENCE
- 
DESIGN
- 
SHELTER

- 
Winner
Technical Innovation Award
- 
Innovation Award
ICE Wales Cymru Awards 2017
- 
2014 Fast Track 100
16th fastest growing company in the UK.
- 
2014 Queen's Award
for Enterprise in Innovation
- 
2013
MacRobert Award
Finalist
- 
2013 Innovation Award Winner
Railtex Exhibition
- 
2012 R&D 100
Award winner
R&D Magazine
- 
2009 Winner
Material ConneXion Medium Award
Material of the Year
- 
D&AD Yellow Pencil Award
Winner
Product Design

Fire Testing - Secondary Containment Liners

Testing to the requirements of CAN/ULC S668-12 section 5.12 Flammability Test, Standard For Liners Used For Secondary Containment of Above ground Flammable And Combustible Liquid Tanks

Concrete Canvas® GCCB (Geosynthetic Cementitious Composite Barrier) was tested to assess the material's performance in accordance with the Canadian National Standard for the flammability of liners used for secondary containment. The testing was conducted by QAI Laboratories Ltd in Coquitlam, Canada.

The testing was based on the thinnest product in the range, the 5mm CC Hydro™ GCCB (CCH5™) material. A steel holder was used to expose a 51mm wide by 210mm long area of the specimen. A 9.5mm orifice Bunsen burner was used, with the tip of the Bunsen burner positioned 19mm below the leading edge of the test specimen.

A total of 6 specimens were tested, three cut along the material's manufactured length and three across the material's manufactured width. A flame height was set to 38mm and the bottom edge of the specimens were exposed to the flame for 12 seconds. The amount of time that the specimen burned after removing the flame was recorded.

Results

There was no flaming of any of the test samples after the removal of the Bunsen burner. The test samples meet the flammability requirements of the test standard.

Test Specimen No.	Direction of specimen	Afterburn (sec)
1	Longitudinal	0
2	Longitudinal	0
3	Longitudinal	0
4	Cross Direction	0
5	Cross Direction	0
6	Cross Direction	0

Conclusion

The 5mm CC Hydro GCCB test samples successfully passed the Canadian National Standard for the liners used for secondary containment of above ground flammable and combustible liquid tanks (CAN/ULC S668-12 section 5.12).