



EUCLID CHEMICAL

# NEWS

FROM THE EUCLID CHEMICAL MARKETING GROUP

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## TUF-STRAND SF Receives Modified UL Certification

TUF-STRAND SF, Euclid Chemical's macro-synthetic fiber, has recently received an amendment to its UL certification to now permit the use of 5.0 lbs/yd<sup>3</sup> (3 kg/m<sup>3</sup>) for use as an alternate or in addition to the welded wire fabric used in Floor-Ceiling D700, D800, D900 Series Designs. This use is limited to assemblies having a 2-hour maximum fire resistance rating. This UL approval also applies to ULC (Canada) and also remains consistent with the SDI/ANSI-C1.0 Manual #31 document permitting the use of macro-fibers to replace WWM in elevated deck construction.

This increase in dosage is not a reflection of the required amount of fiber to meet a specific performance but rather a commentary to address the current UL language where, in the past, a maximum of 4.0 lbs/yd (2.4 kg/m<sup>3</sup>) was permitted when UL rated assemblies were required. The engineering review performed determined that an increase in fiber dosage would not have an impact on the fire rating system and therefore it has been permitted to increase the dosage rate if warranted by the engineer of record for a particular project. Where calculations show that a dosage of 4 lbs/yd is required, this minimum dosage is still permitted.

The updated language for this certification can be found online at [www.ul.com](http://www.ul.com) under the Certifications 'tab'. Either entering Euclid's company name or using the keyword search on the left side of the page will provide the certification, listed as CBXQR.13773. Fiberstrand 100 is also approved for use in D700 and D800 assemblies.

Metal Deck Assemblies with concrete toppings that traditionally have used welded wire mesh as the temperature and shrinkage crack control reinforcement may now be reinforced exclusively with TUF-STRAND SF dosages up to 5 lb/yd<sup>3</sup>. Applications for this market include schools, shopping centers, mixed-use residential developments, high-rise construction, institutional facilities and government offices.

A copy of the completed test report from January 2009 (tested at 4 lbs/yd) is available from Euclid Chemical. The on-line certification for TUF-STRAND SF located at [www.euclidchemical.com](http://www.euclidchemical.com) has also been updated to reflect this new approval.

If there are any additional questions, comments or concerns, please feel free to contact me at your earliest convenience.

Best regards,

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