### Golden Trowel® Awards for the 2017 Contest

For release – Thursday, January 25, 2018
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# THREE WORLD RECORDS SET IN 2017 GOLDEN TROWEL® COMPETITION

(LAS VEGAS) Thirteen Golden Trowels were awarded to 12 different contractors from three continents at the annual Golden Trowel ceremony held today at the World of Concrete in Las Vegas. Three contractors from Australia and the USA produced World Record F-Numbers in their respective categories. Five contractors were first-time winners.

Presented by The Face<sup>®</sup> Companies of Norfolk, Virginia, Golden Trowels<sup>®</sup> are given annually in recognition of the flattest and most level floor slabs produced in the world.

**Christman Constructors, Inc.,** of Livonia, MI, a first-time Golden Trowel winner, stepped into the ranks of Golden Trowel Winners in a big way, by breaking not one but two world records on their first try on a large defined-traffic (Fmin) floor.

**Eldridge Concrete**, of Newton Grove, NC, a second-time Golden Trowel winner, produced more than a mile of floor track and broke a world record on another large defined-traffic (Fmin) floor.

**Tuss Concrete**, of Gingin, Western Australia produced the third of this year's world records, in the hotly-contested Large Laser Screed (wide Bay) category, and took home a Silver trowel in the equally tough Defined Traffic category. No stranger to the Golden Trowel competition, Tuss has won six previous awards; these are his seventh and eighth awards.

**Brian Birdwell** of SSI was this year's winner of the "Sam" award for his exceptional accomplishments in and contributions to the art & science of high quality horizontal concrete construction.

To date, 328 Golden Trowels have been presented to 127 different contractors since the first Golden Trowels were awarded in 1989. Golden Trowel Gold Plates are awarded to the winner in each category; Golden Trowel Silver Plates recognize outstanding entries that did not win their category.

Details of all the winning entries follow.

#### Fmin (Defined Traffic) Awards

Fmin is quite different from FF and FL. For one thing, the Fmin Numbers are based on the <u>worst</u> part of the floor, not the average. Fmin floors are judged by their Fmin Numbers and by the number and length of the aisles. The longer the aisle, the more chances it has to fail, and of course, the greater the number of aisles, the more chances there are to fail.

Fmin floors actually have 4 different specifications to meet or achieve:

- Fmin Longitudinal Levelness is the fore-and aft tilt, or pitch, of the floor.
- **Fmin Longitudinal Flatness** is the rate of change of pitch angle. This could be described as the "bumpiness" of the floor.
- Fmin Transverse Levelness is based on the very worst side-to-side roll angle of the floor, or how far to the side it tilts at the worst case.
- Fmin Transverse Flatness is based on the roll rate, or the rapidity at which the roll angle changes.

First-Time Winner
Christman Constructors Livonia MI
18 aisles, 2979 linear ft. Struck off with a truss screed.
The concrete incorporated 4.5 lb per cu yard of Euclid Tuf-strand fibers



In Recognition of Excellence in Construction of Flat & Level Concrete Floors

Christman Constructors, Inc.

F<sub>min</sub>: L<sub>Level</sub> 145.7 L<sub>Flat</sub> 172.1 World Record T<sub>Level</sub> 146.4 T<sub>Flat</sub> 222.3 18 Aisles, 2979 lf • B541 Warehouse Expansion • Kalamazoo, MI

2017
Vorld ecord

Second Golden Trowel award.

Eldridge Concrete Newton Grove NC

23 aisles, 5980 linear ft. This is more than a mile of floor track to measure. Struck off with a Somero S-22E

Golden<sup>®</sup>

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**Eldridge Concrete** 

2017

F<sub>min</sub>: L<sub>Level</sub> 191.1 World Record LFlat 161.9 T<sub>Level</sub> 146.4 T<sub>Flat</sub> 163.8

23 Aisles, 5980 lf • The Lodge DC • New Hope, TN

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Seventh and eighth Golden Trowel awards this year
Tuss Concrete Gingin, Western Australia
15 Aisles, 1290 linear feet
Struck off with a truss screed
In any other year, this would have been a Golden Trowel.

<u>Golden</u> Trowel

In Recognition of Excellence in Construction of Flat & Level Concrete Floors

Tuss Concrete

2017

F<sub>min</sub>: L<sub>Level</sub> 144.3 L<sub>Flat</sub> 137.0 T<sub>Level</sub> 160.8 T<sub>Flat</sub> 212.8

15 Aisles, 1290 lf • Perth Core Library • Perth, WA



First-Time Winner of a Golden Trowel Asia award
Mitramas Pte Ltd Singapore
13 aisles, 914 linear ft. Struck off using a Copperhead XD3
These results would be great anywhere in the world, but are truly exceptional for Asia.

<u>Golden</u>®

In Recognition of Excellence in Construction of Flat & Level Concrete Floors

rowel Asia Mitramas Pte Ltd

2017

Narrow Strip • F<sub>min</sub> LLevel 181.4 LFlat 137.5 TLevel 105.5 TFlat 95.4

w/16 kg/m³ steel fibers 13 Aisles, 278.5 linear m • MRC Global - RDC Singapore

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2017

Second Golden Trowel Asia award (& have also won one Golden Trowel worldwide award)
Zacklim SRQ Concrete Floor SDN. BHD. Petaling Jaya, Selangor, Malaysia
12 aisles, 1420 linear ft. Struck off using a truss screed
A very few years ago, this floor would have won a Golden Trowel in the worldwide competition.

<u>Golden</u>®

In Recognition of Excellence in Construction of Flat & Level Concrete Floors

Asia Zacklim SRQ Concrete Floor SDN. BHD.

Narrow Strip • Fmin LLevel 110.9 LFlat 105.6 TLevel 115.4 TFlat 114.5

12 Aisles, 433 linear m • Cosmo Scientex Port Klang, Malaysia

Second Golden Trowel award Full-Tilt Constructors Sanford, FL Struck off using two Somero S22-E

These would be truly exceptional numbers for <u>any</u> floor, but this is incredible for a floor close to a million square feet.



In Recognition of Excellence in Construction of Flat & Level Concrete Floors

2017

#### **Full-Tilt Constructors**

Somero Laser Screed 106 ft wide •  $F_{\rm F}$  101.5 /  $F_{\rm L}$  71.7

790,000 ft<sup>2</sup> • Medline Warehouse • Auburndale, FL



First-Time Winner
Concrete Strategies LLC St. Louis MO
Struck off with a Somero S-22E
This would have beaten the world record in 2007 for floors over 500,000 sf..



In Recognition of Excellence in Construction of Flat & Level Concrete Floors

2017

## **Concrete Strategies LLC**

Somero Laser Screed 120 ft wide •  $F_F$  92.5 /  $F_L$  62.0 765,000 ft<sup>2</sup> • Inland Port 8 • Edgerton, KS



Seventh and eighth Golden Trowel awards this year Tuss Concrete Gingin, Western Australia Struck off with a Somero SXP-D Laser Screed 79 ft. wide, 106,000 sf.

Somewhat smaller than the floors listed above but with record-breaking FL Numbers and overall F-Numbers

G<u>olden</u> Trowel

In Recognition of Excellence in Construction of Flat & Level Concrete Floors

#### **Tuss Concrete**

2017

Somero Laser Screed 24 m wide •  $F_F$  111.9 /  $F_L$  91.1 World Record FL & Overall 9,848 m<sup>2</sup> • Bunnings Cannington • Cannington, WA F A C F

#### First-Time Winner Precision Concrete Construction Inc. Alpharetta GA Struck off with a 16' Hand Screed

It is rare these days for any commercial or industrial floor to be struck off by hand. This is the second-highest FF Number ever recorded for an unshored elevated deck this size.

In Recognition of Excellence in Construction of Flat & Level Concrete Floors

2017

**Precision Concrete Construction Inc.** 

Unshored Large Slab on Metal Deck • F<sub>F</sub> 54.22 133,000 ft<sup>2</sup> • FRC-2 Facebook Data Center • Forest City, NC

First-Time Winner of a Golden Trowel Asia award B.S.Y. Construction Co., Ltd. Bangkok, Thailand Slabs built on piles are quite unusual outside Asia but are apparently common in Asia. This type construction makes it quite difficult to achieve high FF and FL Numbers. Struck off using a Copperhead XD3

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 $25920 \text{ m}^2$  •

**B.S.Y.** Construction Co., Ltd.

2017

Elevated Slab on Piles •  $F_F$  54.4 •  $F_L$  34.6

**WHA MLC – B.244A** 

Bangkok, Thailand

# First-Time Winner BCI Concrete Backus, MN Struck off using two Somero S485 Ride-On Screeds The third-highest total F-Numbers ever for a full-sized ice rink



In Recognition of Excellence in Construction of Flat & Level Concrete Floors

**BCI** Concrete

2017

NHL Size Ice Rink over Styrofoam •  $F_F$  80.1 /  $F_L$  65.8 17,000 ft<sup>2</sup> • Mandan Sports Complex • Mandan, ND



Fourth Golden Trowel award

Tri Con Haid Concrete Finishing, Ltd. St. Clements Ontario, Canada The concrete included 1 lb/sf dry shake and was struck off using a Copperhead XD3 These are the second highest F-Numbers ever recorded for an ice rink using dry shake.

When the ice is removed from the rink in the summer, it is not melted in place to avoid flooding. It is scraped off by the Zamboni. The dry-shake hardener prevents slab damage from the scraper blade attachment and the tire studs on the Zamboni. Another reason for the hardener is during the spring, summer and autumn, whenever there is no ice on the slab, the complex is used for multiple shows such as Home & Garden shows, Agricultural shows, Fall Fairs, etc. The forklifts used to set up and tear down these exhibits could also cause damage to the slab without the use of the hardener.



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2017

# Trowel Tri Con Haid Concrete Finishing, Ltd.

NHL Size Ice Rink with Dry Shake •  $F_F$  64.7  $F_L$  54.0 17,000 ft<sup>2</sup> • Steve Kerr Memorial Complex • Listowel, Ontario, CA



Fifth Golden Trowel award
D.J. Rossetti, Inc. Ballston Spa, NY
Struck off using a Somero S840 Ride-On Screed
In any other year, this award would have been a Golden Trowel, but for BCI's rink this year.

<u>Golden°</u> Trowel

In Recognition of Excellence in Construction of Flat & Level Concrete Floors

D.J. Rossetti, Inc.

2017

NHL Size Ice Rink over styrofoam •  $F_F$  73.6 /  $F_L$  58.8 17,000 ft<sup>2</sup> • Target Center • Minneapolis, MN

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Bryan Birdwell is a Senior Consultant in Structural Services, Incorporated, or SSI. Prior to joining SSI, he won 25 Golden Trowel Awards as a flooring contractor and is a 5-time World Record Holder for the construction of the flattest & most level concrete floors in the world. He is a member of ACI Committees 640, 117, 302, 330, 360, and 522, and is an examiner for ACI's Flatwork Finisher / Technician Certification Program. He is a frequent instructor at the World of Concrete seminars and SSI's Concrete College and has written many articles for various concrete publications. Bryan received the ACI Young Member Award in 2015 for advancing the quality construction of flat and level concrete floors, and for educating and mentoring people in construction of flat and level concrete floors. It is for exactly this reason that the Face Company is proud to award Brian with the "Sam" award, named after Sam Face, an inventor and the codeveloper of some of the most important advances in concrete floor technology. Sam is best known for his role in the development of essentially all of the technology that now constitutes the world standard for the specification, measurement and control of the flatness and levelness of concrete. Bryan is eminently worthy of the "Sam" award.

## The Samuel A. Face, Jr. Award

Golden

For Outstanding Accomplishments in and Contributions to The Art & Science of High Quality Horizontal Concrete Construction

**Bryan Birdwell** 

Awarded January 2018

