

Myth?

BUSTED!

A New England superintendent tests flagsticks to see how they react when golf balls hit them

BY RICH GAGNON

One of my first jobs after accepting the superintendent position at Segregansett Country Club in Taunton Mass., was to sit down with my green chairman at the time, Chris Ryding, and figure out which pins/flagsticks the members wanted on the golf course. I had three full sets of completely different style pins and no idea which one they preferred.

Par Aide manufactured all three different style flagsticks, which are listed in the company's catalog as:

- the half-inch solid regulation fiberglass flagstick;
- three-quarter-inch tapered tournament flagstick; and
- one-inch aluminum/fiberglass tournament flagstick.

Ryding and I agreed on the three-quarter-inch tapered tournament flagstick, which seemed to look better and would be more durable because

Some members of Segregansett Country Club complained about the flagsticks on the course because they were too hard and they thought balls were less likely to drop in the hole after hitting them. Photo: Segregansett Country Club



of its weight and thickness. We didn't give it much more thought than that.

That is until a complaint rolled in from a member that changed our way of thinking a bit. The complaint was that we needed to get rid of the "metal" flagsticks because the ball bounces off them too hard and is less likely to fall into the hole. I was told we needed to go back to the half-inch, solid regulation fiberglass flagsticks. I assured the chairman the flagsticks were made of fiberglass and the only metal component was the ferrule on the bottom and the screw threads on the tip, which hold the flag on. I was told that regardless of what the flagsticks were made of, fewer balls go in the hole with the flagsticks we were currently using.

A couple years passed. The same three-quarter-inch tapered tournament flagsticks were being used, but now I had a new chairman, Earl Dion. The old complaint had resurfaced with a new set of ears to listen, and I was asked if it was



To meet the needs of members, superintendent Rich Gagnon and assistant superintendent Tate Asselin tested three different flagsticks to determine how they affected ball bounce. Photo: Segregansett Country Club

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Rich Gagnon needed data to back up his claims about flagsticks to help his debate with members. Photo: Segregansett Country Club

a legitimate complaint once again. It seemed that if all the flagsticks were eight-foot tall and had a half-inch-wide base made of fiberglass that it wouldn't affect the ball dropping into the hole or kicking to the side. After hearing this complaint yet again, I figured I'd try to put the myth to rest – that the flagsticks we were using were reducing the chances of the ball dropping into the hole.

Segregansett has 20 members who have a USGA handicap index of 2 or lower, 12 members who qualified for the Massachusetts Amateur Championship in 2007 and two members who played in national USGA events last year. The members have the reputation of being one of

the best playing memberships in the state. I wasn't about to win any debate with any of them about what a ball does or doesn't do when it hits a flagstick. That is unless I had data to back up what I said.

SET IT UP

To conduct this test, I used all three sets of pins. I set a regulation cup into a green mowed at one-eighth inch on a flat surface and set up a transit tripod several feet away from the cup. Then I cut a 10-foot section of PVC irrigation pipe, set it on the tripod and raised the entry point of the pipe two feet off the ground, with the exiting end of the pipe 14 inches from the hole resting on the green. All the flagsticks had flags on them, the ferrules were all the same, and the Par Aide cup was set at regulation depth.

Assistant superintendent Tate Asselin and I rolled 100 balls through the PVC pipe at each of the flagsticks. We removed a ball from the cup

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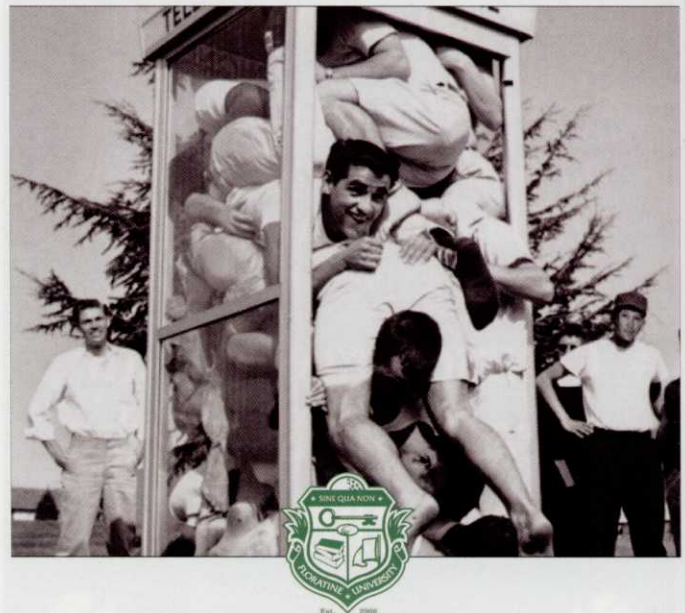
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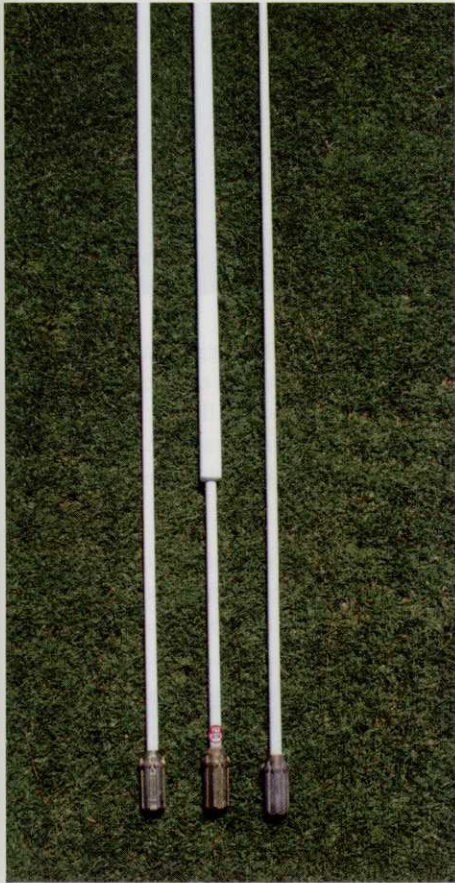
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After research, it turned out more balls were likely to fall into the hole after bouncing of the half-inch flagstick. Photo: Segregansett Country Club

than having 100 random balls that were hit by the membership at one time, picked up by me after they were lost and eventually used in this experiment?

based on their individual characteristics, and the idea was a great one, but our final decision to use 100 random golf balls, not 100 of the same kind. This was based on one factor: I wanted to duplicate what is actually happening on the golf course when my membership hits the flagstick on a chip shot. What better way to test for this

RESULTS THAT MATTER?

After 300 balls were sent through the pipe, the results were in. With the flagstick we were using (three-quarter-inch tapered), 67 percent of the balls fell into the cup. With the half-inch flagstick, 72 percent of the balls fell into the hole. The complaints were valid, but barely. At a 5-percent difference in the members' favor, it

every time one landed in it to make sure the balls leaning against the flagstick didn't have any effect on vibration or stability. We wanted to simulate a chip shot as it hits the flagstick but wanted to make sure all balls hit the flagstick dead-on at a normal pace to see how the ball reacted.

We understood that, in the real world, any perfect chip shot that just drops in the hole wouldn't be affected by which flagstick was in the cup and any ball skulled or off center wouldn't be impacted either. What we wanted to avoid was the ball traveling too fast, too slow or too off center. The 10-foot pipe set up at two feet off the ground on one end and 14 inches from the hole on the other end seemed to be the perfect combination for simulating a direct hit at a medium pace.

As the flagstick test was under way, Asselin thought it would be a good idea to take the test to another level and use the exact same make of ball to assure consistency and accuracy. I'm sure some balls might react differently than others

United States Postal Service		(Requester Publications Only)	
Statement of Ownership, Management, and Circulation			
Required by 39 USC 3685			
1.	Publication Title: GOLF COURSE INDUSTRY		
2.	Publication Number: 1054-0644		
3.	Filing Date: 10-1-2007		
4.	Issue of Frequency: January, February, March, April, May, July, August, September, October, November		
5.	Number of Issues Published Annually: 10		
6.	Annual Subscription Price: Free to Qualified		
7.	Complete Mailing Address of Known Office of Publication (Not Printer): GIE Media, Inc., 4020 Kinross Lakes Parkway #201 Richfield, OH 44286	Contact Person: Melody Berendt	Telephone: 800-456-0707
8.	Complete Mailing Address of Headquarters or General Business Office of Publisher (Not Printer): GIE Media, Inc. 4020 Kinross Lakes Parkway #201 Richfield, OH 44286		
9.	Full Names and Complete Mailing Addresses of Publisher, Editor, and Managing Editor - Publisher: Kevin Glibride, GIE Media, Inc., 4020 Kinross Lakes Parkway, #201, Richfield, OH 44286; Editor: John Walsh, GIE Media, Inc., 4020 Kinross Lakes Parkway, #201, Richfield, OH 44286; Managing Editor: n/a, GIE Media, Inc., 4020 Kinross Lakes Parkway, #201, Richfield, OH 44286		
10.	Owner - Full name: GIE Media, Inc., Richard J. W. Foster, Owner, 4020 Kinross Lakes Parkway #201, Richfield, OH 44286; . . .		
11.	Known Bondholders, Mortgagees, and Other Security Holders Owning or Holding 1 Percent or More of Total Amount of Bonds, Mortgages or Other Securities: None		
13.	Publication Title: GOLF COURSE INDUSTRY		
14.	Issue Date for Circulation Data: September 2007	Average No. Copies Each Issue During Preceding 12 Months	No. Copies of Single Issue Published Nearest to Filing Date
15.	Extent and Nature of Circulation		
a.	Total Number of Copies (Net press run)	32,275	35,223
b.	Legitimate Paid and/or Requested Distribution (By Mail and Outside the Mail)		
	(1) Individual Paid/Requested Mail Subscriptions Stated On PS Form 3541. (Include direct written request from recipient, telemarketing and Internet requests from recipient, paid subscriptions including nominal rate subscriptions, advertiser's proof copies, and exchange copies)	30,331	33,077
	(2) Copies Requested by Employers for Distribution to Employees by Name or Position Stated on PS Form 3541	0	0
	(3) Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Paid or Requested Distribution Outside USPS	46	115
	(4) Requested Copies Distributed by Other Mail Classes Through the USPS (e.g. First-Class Mail)	0	0
c.	Total Paid and/or Requested Distribution (Sum of 15b (1), (2), (3), and (4))	30,377	33,192
d.	Nonrequested Distribution (By Mail and Outside the Mail)		
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e.	Total Nonrequested Distribution (Sum of 15d (1), (2), (3))	1,587	1,739
f.	Total Distribution (Sum of 15c and 15e)	31,964	34,931
g.	Copies not Distributed	311	292
h.	Total (Sum of 15f and g)	32,275	35,223
i.	Percent Paid and/or Requested Circulation (15c divided by 15f times 100)	95.04%	95.02%
16.	Publication of Statement of Ownership for a Requester Publication is required and will be printed in the issue of this publication.		November 2007
17.	Signature and Title of Editor, Publisher, Business Manager, or Owner		Date
	Kevin Glibride, Publisher		9/28/2007
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Even the smallest details on a golf course, such as flagsticks, are important to members of Segregansett Country Club. Photo: Segregansett Country Club



appeared that for every 20 chip shots that hit the flagstick dead-on, one more fell into the cup with the half-inch flagstick compared to the three-quarter-inch tapered flagstick. Although not a major difference, there still was a difference.

"If I hit the flagstick with 100 chip shots this year, I want the five birdies – there's a difference!" Dion says. "If I go up against a good chipper in the club championship, I want the three-quarter-inch flagsticks in. Who wouldn't?"

Most golfers would say there's no difference which flagstick was in the cup. And, statistically, the 5-percent difference in our results would probably hold true for 100 coin tosses. But one flagstick had to win the race and the results would never turn out 50/50 anyway. There might not seem to be a difference between the half-inch and the three-quarter-inch flagsticks, but when the two pins were matched up against the one-inch flagstick, the results proved there can be a significant difference between flagsticks and the

percentage of balls falling into the cup.

The biggest shock of all was that with the one-inch flagsticks, no balls fell into the hole. That's right, none. It's hard to imagine there would be such a big difference, especially since the bottom 12 inches of all three flagsticks is exactly the same width (half-inch) and made of fiberglass.

WEIGH IN

I took things a step further and wanted to see if weight had any effect on the results since the area that the ball was hitting was exactly the same on all the flagsticks. The three-quarter-inch flagstick was heavier than the half-inch one, but the one-inch flagstick was lighter than the three-quarter-inch flagstick. Weight, materials and width in the impact area all have no effect on the results.

Is 5-percent difference enough to change the flagsticks at Segregansett to the half-inch ones?

It's still debatable, but I can assure you that after reading the results of our experiment you'll never see the one-inch flagsticks in our cups again. That is, until my chairman goes up against a good chipper in the club championship. **GCI**

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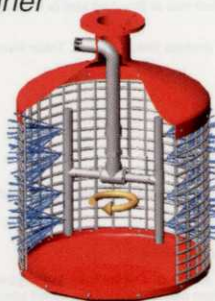
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