

Technical Service Report

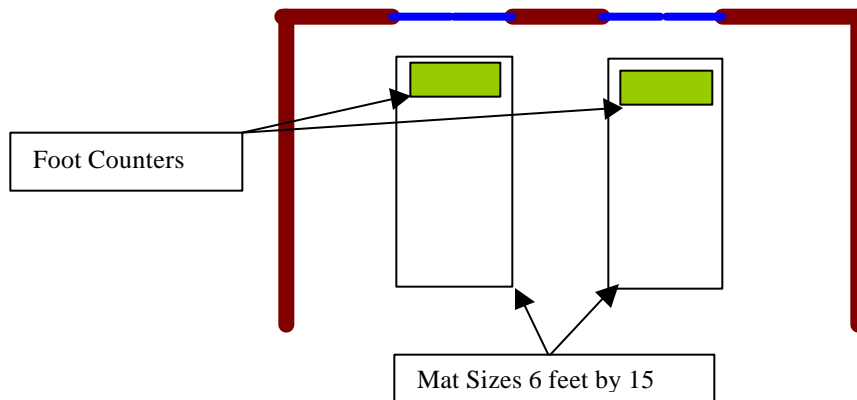
Requestor:	Beth Volkers	Number:	TSR TEST
Date:	30 October 2003	Contact:	Dave Sebesta

Request: Compare the Dirt Removal Performance (DRP), of 3M™ Nomad™ Carpet Matting 8850, the Anderson™ Water Hog™ Premier Matting, the Callas™ Hi-Performance™ Matting and a Crown Rely-On™ Olefin Matting in an actual application.

Conclusion: The 3M™ Nomad™ Carpet Matting 8850 can remove up to 48 percent more dirt per person walking on mat then the three competitive mats. The 3M™ Nomad™ Carpet Matting 8850 took less time to vacuum clean then the competitive mats. In addition, the schools chose to place additional matting into service following the Anderson and Crown mats.

Test Method: An eight-week study was conducted during the winter months with the cooperation of two elementary schools in central Illinois. The matting configurations were evaluated at the front entranceways as shown in Figure 1. The matting configuration matched the school practices for entrance matting. Each entrance had overhangs that the people walked under before walking into the schools. Counters were placed under the carpet mats, right inside the entrance doors. Every day the number of people walking on the mats was recorded, the mats were vacuumed and the vacuumed dirt was weighed and recorded.

Figure 1



The participating schools requested the ability to place extra matting into service if they felt that the test mats were inadequate to keep the entranceway safe. In addition matting was used, it was noted along with the weather.

The mat's Dirt Removal Performance (DRP), was calculated by dividing the dirt vacuumed by the number of people that walked on the mat as shown in Equation 1.

Equation 1. Dirt Removal Performance

$$\text{DRP} = \frac{\text{Grams of Dirt Removed from the Mats}}{\text{Number of People Walking on the Mats}}$$

The dirt removal performance was then compared.

A brief product description:

- 3M™ Nomad™ Carpet Matting 8850 – Dual fiber, loop pile carpet
- Anderson™ Water Hog™ Premier Matting – Molded reinforced textile
- Callas™ Hi-Performance™ Matting – Needle Tack Carpet
- Crown Rely-On™ Olefin Matting – Plush Pile Carpet

Results: Figure 2, shows the DRP comparison of the 3M Nomad Carpet mat to the competitive mats. The differences between the mats was significant at $p < 0.016$. Figure 2 also, indicates that the 3M Nomad Carpet mat will remove from 39 to 48 percent more dirt than the competitive mats.

Figure 2.

Performance of 3M Mat as compared to Competitors

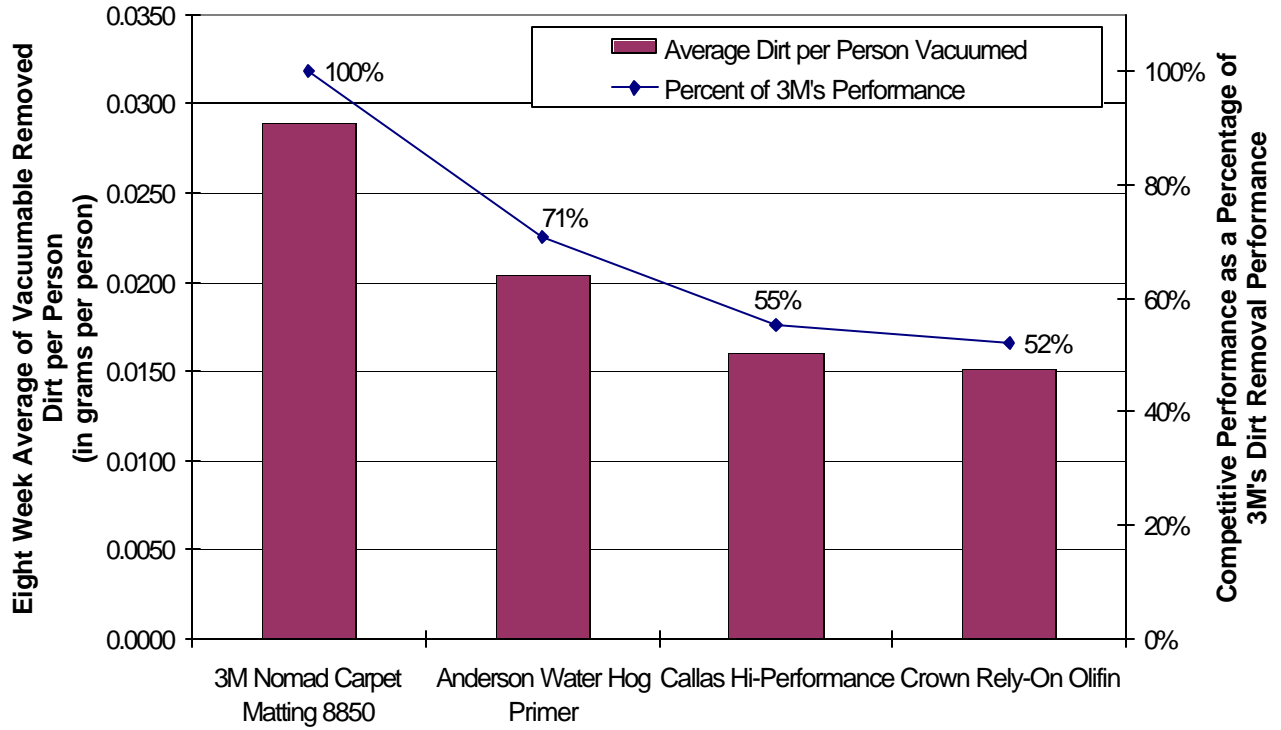


Figure 3 shows that the 3M Nomad Carpet mat could be vacuumed clean in the scheduled time of five minutes, while each of the other mats required additional time to vacuum the mats clean. The additional vacuum time had removed less dirt from the competitive matting.

Figure 3

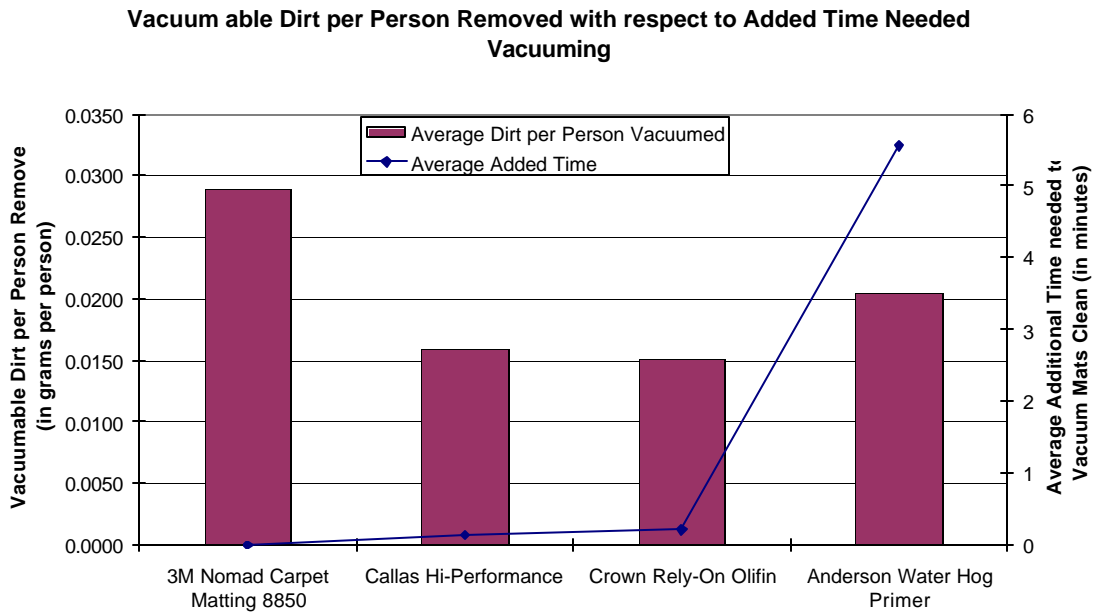


Table 1 shows the number of times the schools felt additional matting was needed.

Table 1.

School	Days of additional Matting
3M Nomad Carpet Matting 8850	0
Callas Hi-Performance Matting	0
Anderson™ Water Hog™ Primer Matting,	6
Crown Rely-On™ Olefin Matting	5

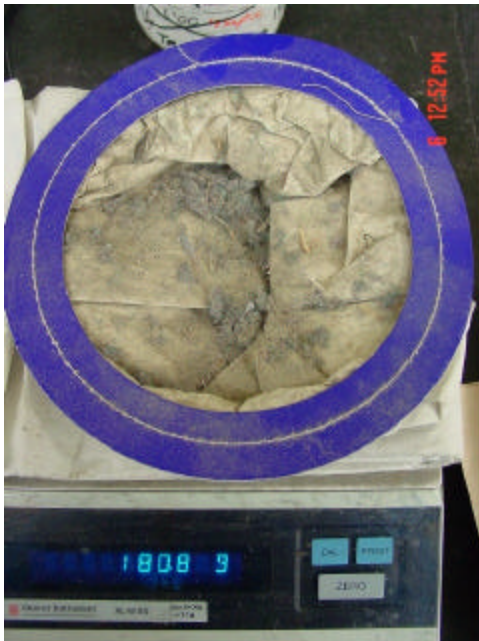
The following pictures show the difference in one weeks vacuumed dirt.



3M™ Nomad™ Carpet Matting 8850 Matting



Anderson™ Water Hog™ Premier Matting



Callas™ Hi-Performance™ Matting



Crown Rely-On™ Olefin Matting

Important:

The information provided in this report is believed to be reliable; however, due to the wide variety of intervening factors, 3M does not warrant that the results will necessarily be obtained. All details concerning product specifications and terms of sale are available from 3M.

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