

The Diameter of a 24<sup>lb</sup> Shot as laid down in our Table is 5.627 inches deficient from the above, by  $\frac{28}{1000}$  of an inch which Difference may be accounted for in this Way. The Diameter 5.627 inches is taken on the Supposition of a perfect mathematical Sphere, accurately smooth and round. But as it is impossible to cast Shot with perfect mathematical Truth, it will come to pass that a Shot actually weighing 24<sup>lb</sup> will be a Trifle larger in Diameter than the Theory indicates. Not to insist on the Circumstances that the French 24<sup>lb</sup> Shot are calculated to average, generally, nowadays, about  $\frac{1}{2}$  a Pound over weight. (See *Towards Artillery* vol. 1. Page 355.)

It is of great Importance, I conceive not to commit any Mistake in a Matter of this kind which Consideration, I hope may plead an Apology for the Extent of this Letter.

I have the Honor to be very respectfully Sir your very obedient Servant  
 Decius Wedgworth.

Decius Wedgworth  
 statement of observations on the  
 diameter of wrought Iron Cannon Balls

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