

# Wheel Profiles for EM and 18.83mm Gauges

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Issue 2  
Jun 2017

The EMGS originally published its recommended wheel profiles in 1976 as a series of Data Sheets. They were also intended as information for manufacturers and potential manufacturers of finescale wheels. The data was published on the EMGS website in February 2007, and a Manual Sheet version was issued to members in August 2009.

Very few modellers have the equipment to measure wheels accurately or to turn them to a specific profile. For the vast majority, the choice of wheels depends on what manufacturers produce. In practice, modellers will obtain wheels labelled for EM or P4, setting the back-to-back measurements using gauges. Hence the apparent precision of these standards is not an issue.

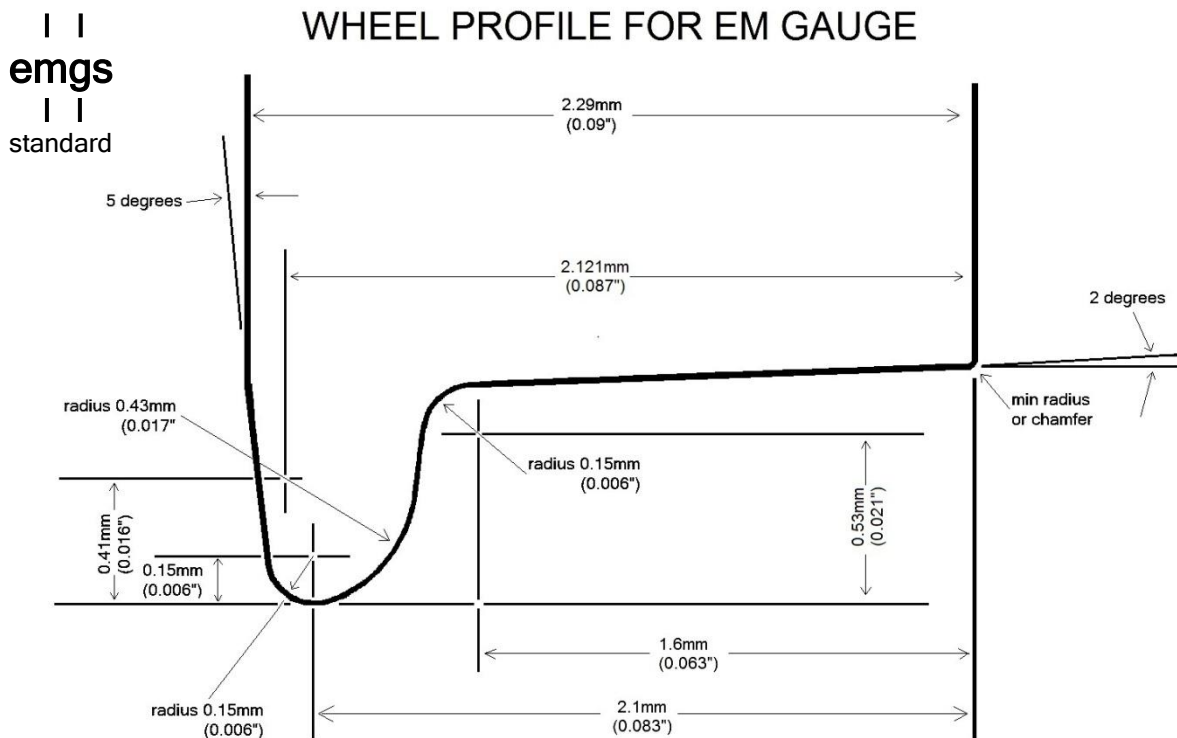
The original drawings produced by Chris Powell have been used in this manual sheet. They have been digitally cleaned to improve the quality of reproduction. Metric equivalents have been added to the EM diagram. Note that the metric dimensions have been

converted from the original imperial dimensions. Due to the vagaries of copying and reproduction the drawings may not be true to scale, hence it would be unwise to scale from the drawings. The printed dimensions should be used.

EMGS recommends that modellers working to 18.83mm gauge should use the P4 standards as promulgated by the Scalefour Society. Information about the background to these standards can be found on their website [www.scalefour.org](http://www.scalefour.org). EMGS is grateful to the Scalefour Society for their help in producing this sheet.

The original specifications included a note that the material to be used was free-cutting mild steel. Brass and nickel silver have also proved to be satisfactory.

Back-to-back dimensions are 16.5mm for EM gauge and 17.67mm min 17.75 mm max for 18.83mm gauge.

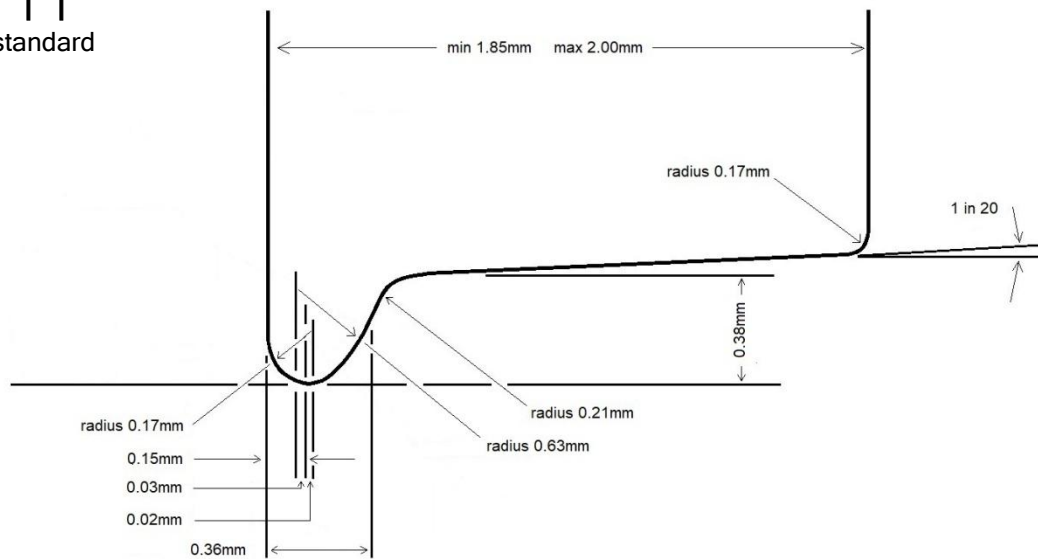


# Wheel Profiles for EM and 18.83mm Gauges (cont.)

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||  
emgs  
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standard

## WHEEL PROFILE FOR 18.83mm GAUGE P4 STANDARDS



Sheet revised by Colin Wilson Jun 2017