



National  
Qualifications  
2025

X835/77/11

## Graphic Communication Supplementary sheets

WEDNESDAY, 30 APRIL

1:00 PM – 3:30 PM

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Supplementary sheet 1 for use with question 1, supplementary sheets 2 and 3 for use with question 3 and supplementary sheet 4 for use with question 5.



\* X 8 3 5 7 7 1 1 \*

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## BIKE BUILDER CUSTOMISATION

◀ ROAD BIKE ▶

**360°**

**3D INTERACTIVE VIEW**

**Frame Colour**

Cyan d'Azur Flip Voodoo Bronze Flip Reflex Green Flip Reflex Blue Flip

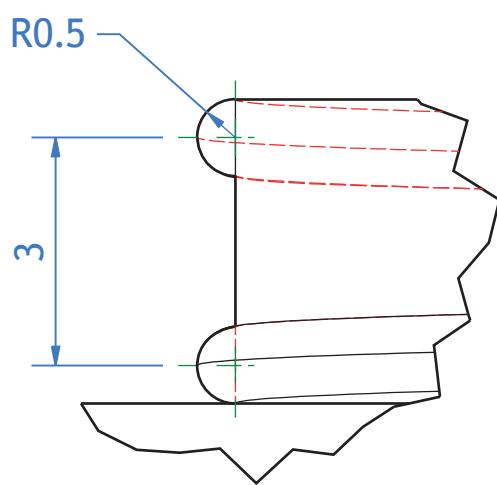
**Small**  
5' 5" - 5' 7"  
165 - 170cm  
**SELECT**

**Medium**  
5' 7" - 5' 10"  
170 - 178cm  
**SELECT**

**Large**  
5' 10" - 6' 1"  
178 - 185cm  
**SELECT**

## COMPONENT A

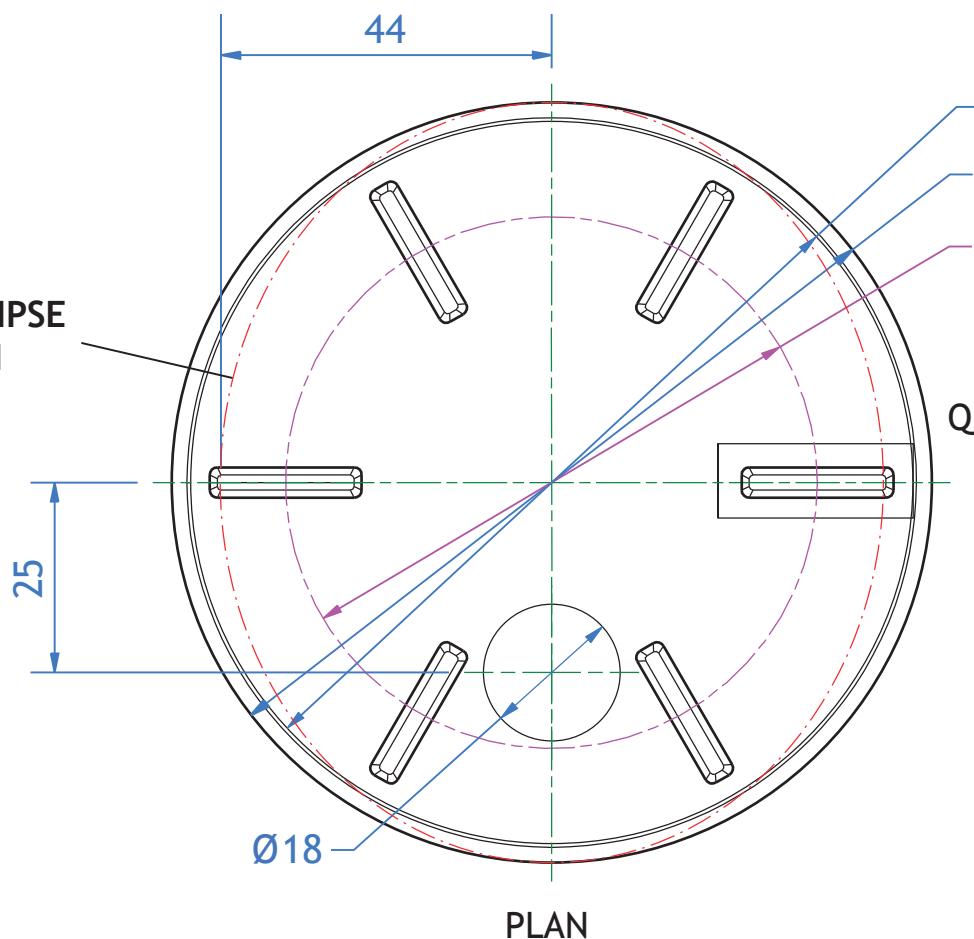
**POSITION of ELLIPSE PROFILE SKETCH**



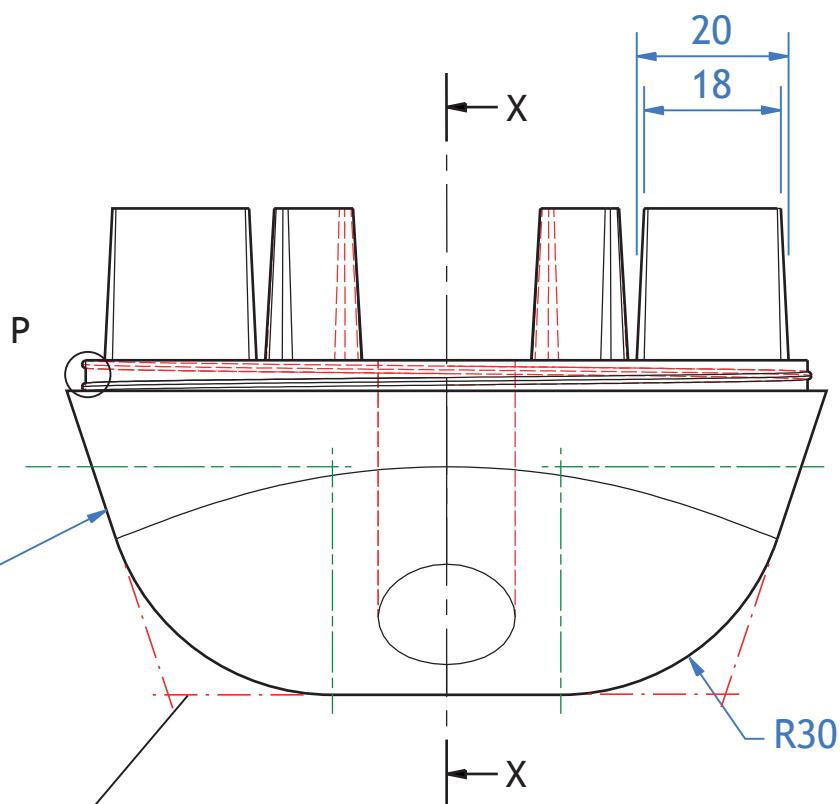
ENLARGED VIEW P SCALE 10:1

**SYMBOL D**

**POSITION of ELLIPSE PROFILE SKETCH**

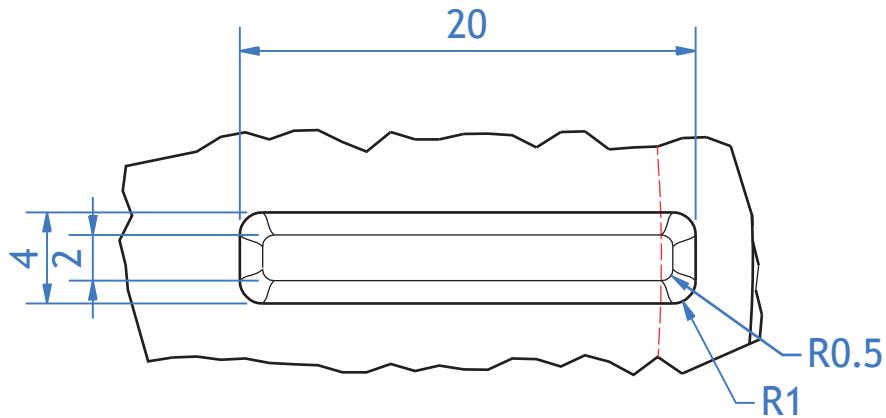


**PLAN**

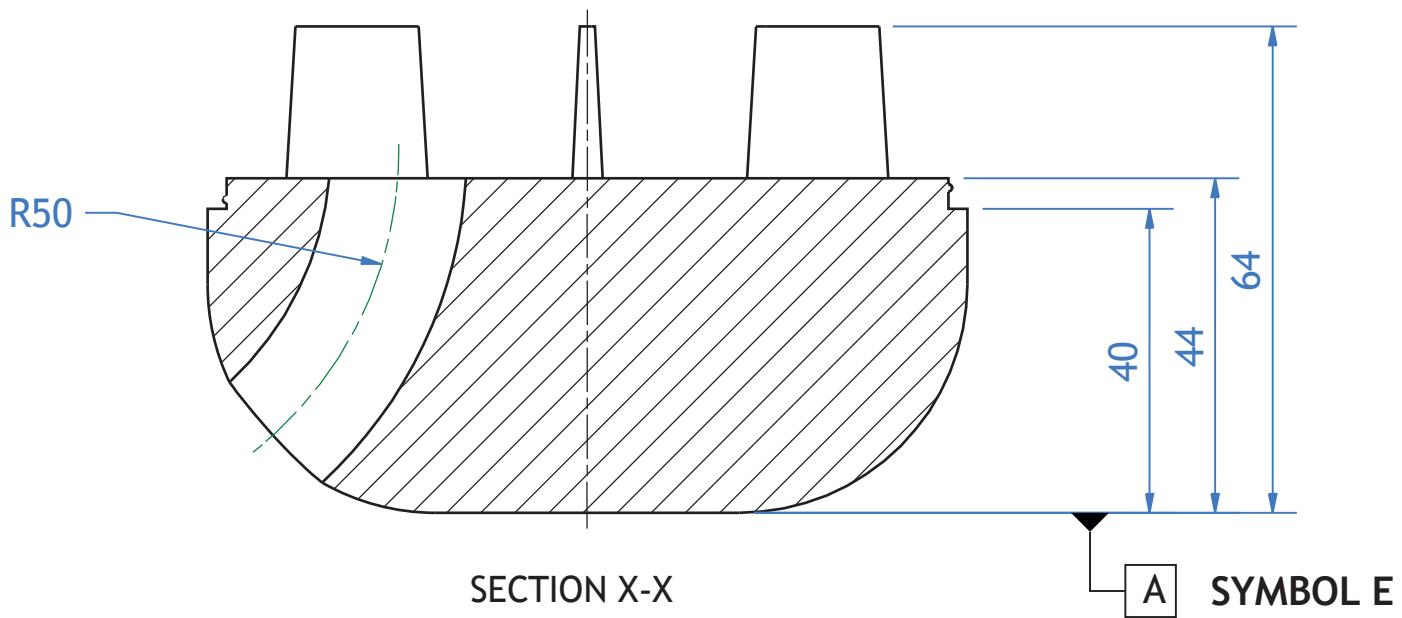


**ELEVATION**

$\varnothing 95 \pm 0.15$   
 $\varnothing 100$   
 PCD 70

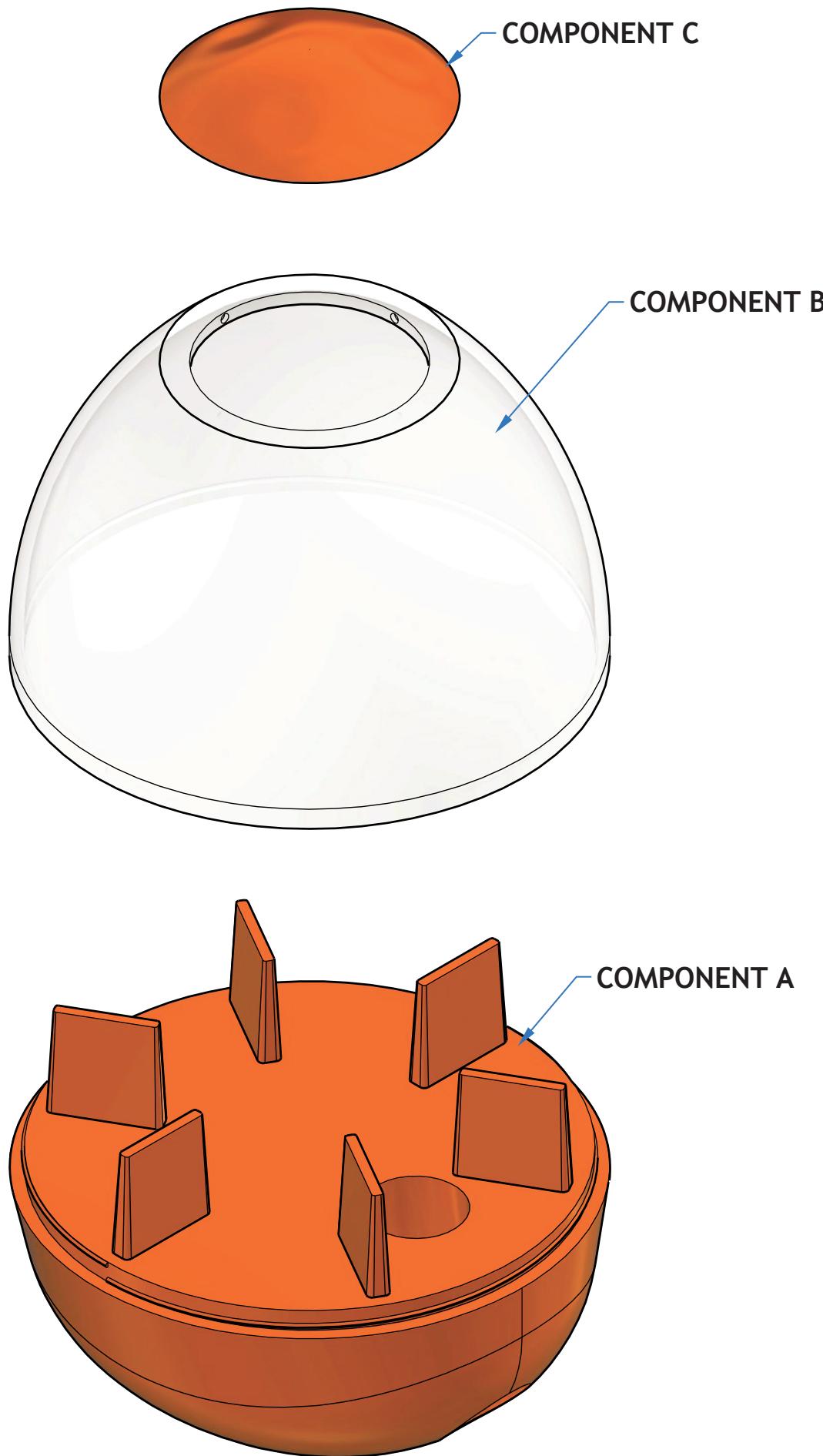


ENLARGED VIEW Q SCALE 3:1 (CENTRE LINES REMOVED FOR CLARITY)

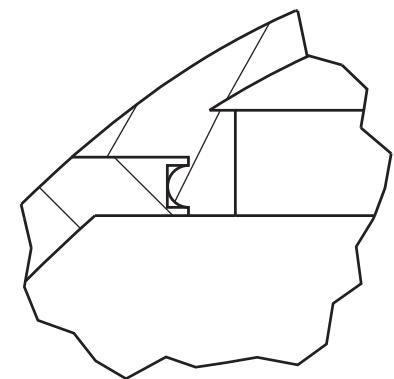


TOLERANCE F

TITLE: DOG TREAT TOY	
DRAWING NUMBER: 1	
ALL DIMENSIONS IN MM TOLERANCE $\pm 0.2$ UNLESS OTHERWISE STATED	SCALE: 1:1
AUTHOR: A.NON	DATE: 10/10/23



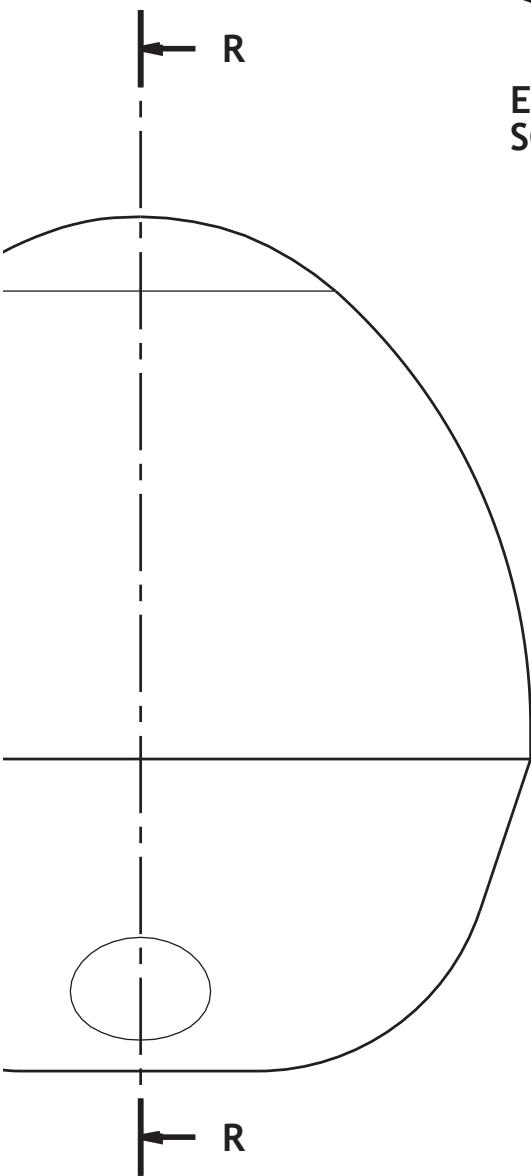
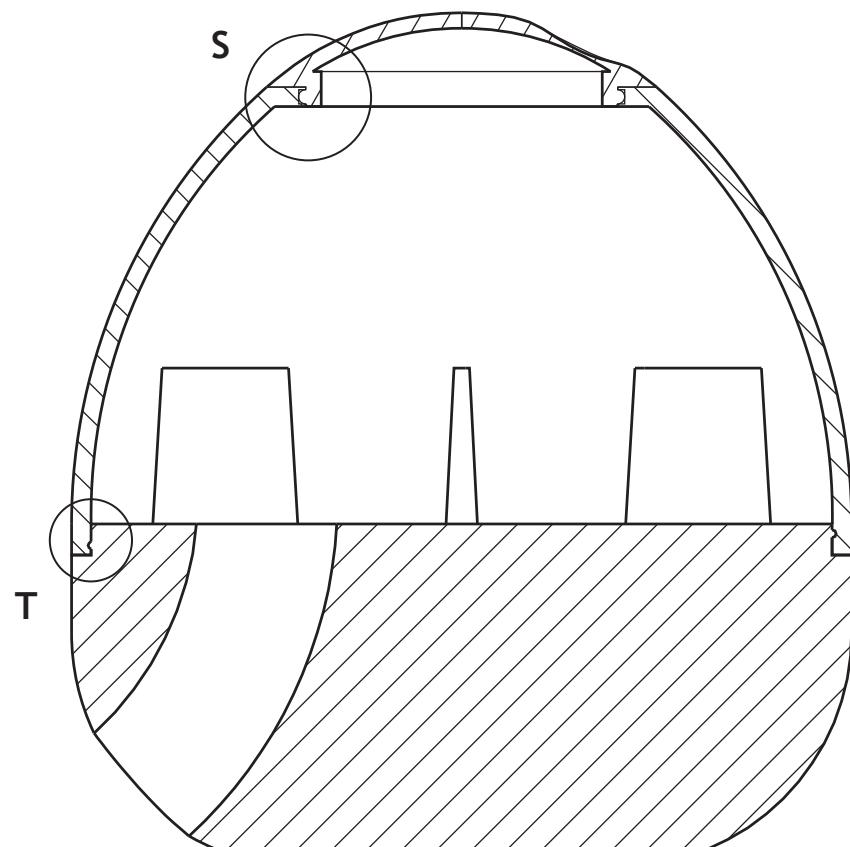
**EXPLODED**



## ASSEMBLED

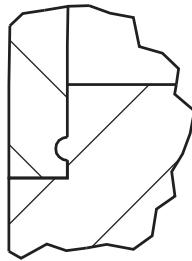
CENTRE LINES HAVE BEEN REMOVED FOR CLARITY

ENLARGED VIEW S  
SCALE 4:1



ELEVATION

SECTION R-R

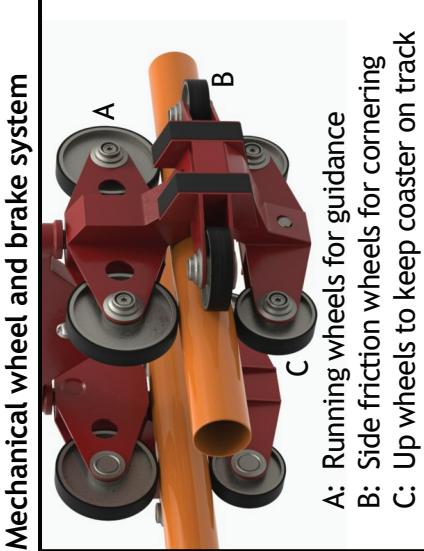
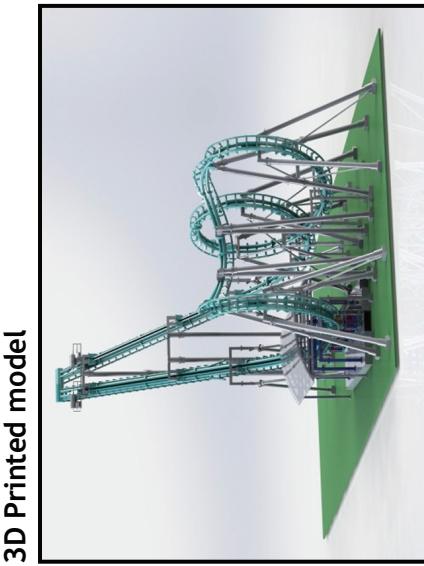
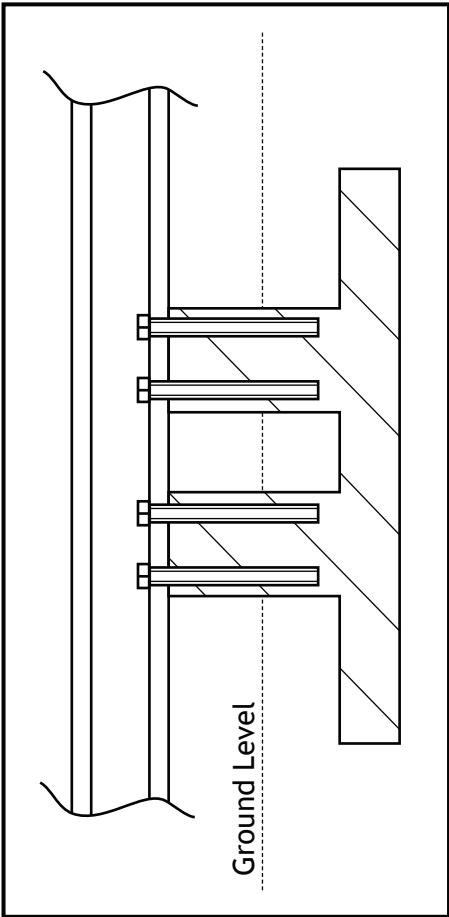


ENLARGED VIEW T  
SCALE 4:1

TITLE: DOG TREAT TOY	
DRAWING NUMBER: 2	
EXPLODED AND ORTHOGRAPHIC VIEWS	SCALE: 1:1
AUTHOR: A.NON	DATE: 10/10/23

<b>Specification</b>	<ul style="list-style-type: none"> <li>• Track length: 425 m</li> <li>• Max speed: 18 m/s (65 km/h)</li> <li>• Acceleration max: 4.2 g</li> <li>• Run time: 75/80 s</li> <li>• Number of trains: 1 with 6 cars, 4 seats each</li> </ul>
<b>Joining Methods</b>	<ul style="list-style-type: none"> <li>• Track material: Steel</li> <li>• Foundation material: Concrete</li> <li>• Foundation connected to supports using fixing bolts</li> <li>• Frame, supports and tracks assembled using bolts and welding</li> </ul>

Column Foundation (Not to BS8888)



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Location icon: <https://pixabay.com/vectors/location-position-job-you-are-here-1132648/>  
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Bike helmet: <https://pixabay.com/photos/bicycle-helmet-helmet-bike-helmet-505399/>
- Supplementary sheet 4 Joining methods: Image is taken from Davide Mavillonio on LinkedIn, [https://www.linkedin.com/posts/davide-mavillonio\\_fem-cfd-ansys-ugcPost-7082302878328995840-Wn4t/](https://www.linkedin.com/posts/davide-mavillonio_fem-cfd-ansys-ugcPost-7082302878328995840-Wn4t/)  
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