



Ayrshire Metals Limited

Leading Manufacturer of Cold Rolled Steel

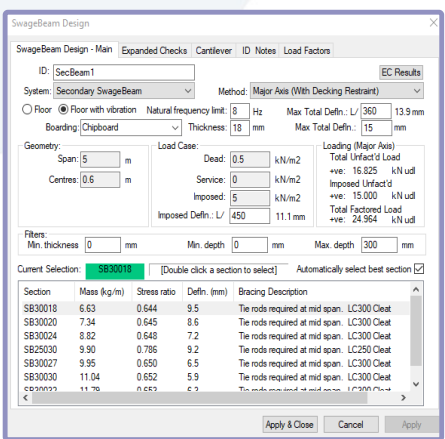
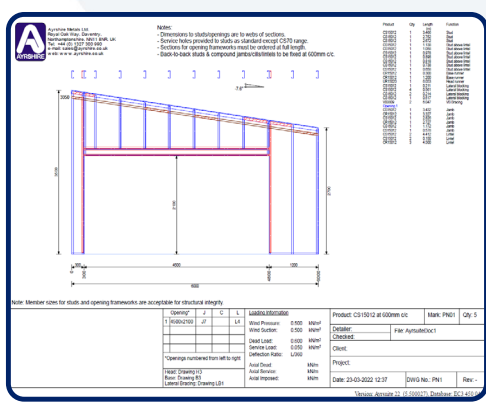
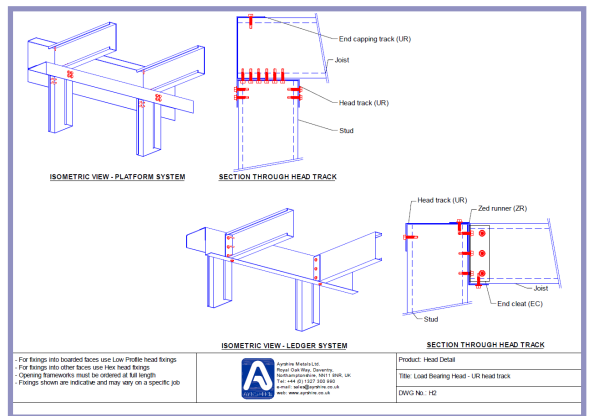


Design & Detailing Software

Our latest detailing software contains many new features and products to make ordering sections from Ayrshire as easy as possible!

New Features added to AyrSuite™22

- Increased range of Sections
 - Additional Zeta 1 thicknesses
 - Deeper Zeds
 - Many more depths & thicknesses of C sections
 - Increased thicknesses of Swagebeams
- Designs to Eurocode 3
- All Sections manufactured to S450
- New & improved product/cost reports



Ayrshire Design Tools
AyrSuite 22 (6.500227)
Ayrshire Metals Ltd, Daventry, NN11 8NR, UK
Tel: +44 (0) 127 333 999
www.ayrshire.co.uk

Product: Head Detail
Title: Load Bearing Head - LR Head track
DWG No: HD

Section Design Report (Secondary SwageBeam) - ID: SecBeam1
Type: Floor with vibration

Design Geometry		Design Loadings		Load Factors	
Span (m)	5.000	Dead (kNm/m ²)	0.500	Dead	1.35
Centres (m)	0.600	Service (kNm/m ²)	0.000	Service	1.35
Max imposed load def. (mm)	L/450+11.1	Imposed (kNm/m ²)	5.000	Imposed	1.50
Max total load def. (mm)	L/360 or 15.0+13.9	Self weight (kg/m)	6.63	Imposed load category	E: Storage

Combination type	Lead	Accidental	Factored	Critical	Working	Critical
Dead	No	No	2.279kN	No	1.825kN	
Dead+Service+Imposed	Dead	No	2.456kN	No	1.825kN	
Dead+Service+Imposed	Imposed	No	24.956kN	Yes	16.825kN	Yes
Imposed	Imposed	No	24.779kN	No	16.825kN	Yes
Imposed	Imposed	No	15.000kN	No	15.000kN	Yes

Critical Design Criterion: SLS-Imposed

Conclusion: Section: SB30018 S450G Checks results: PASS



Design & Detailing Software
is available completely **FREE** of charge.
To request your copy of our software, please visit our website:
www.ayrshire.co.uk/downloads



Contact Us: Ayrshire Metals Limited, Royal Oak Way, Daventry NN11 8NR Tel: +44 (0) 1327 300990 Email: sales@ayrshire.co.uk

