

CASE STUDY

↳ S690 QL Product Range



↳ Steel specialists Abraservice UK, one of Europe’s leaders in the distribution and processing of abrasion resistant and high yield steel, have added to their range of S690 QL quench and tempered steels.

**COST AND ENVIRONMENTAL BENEFITS WITH S690 QL**

“Our SolidWorks CAD software ensures that customers have added confidence that their project is designed efficiently and accurately, guaranteeing an end product that has been engineered exactly as designed”

↳ Nick Taylor, Abraservice UK  
Business Development Manager

The structural steels combine high strength with excellent forming and welding performance making it suitable for applications in many market sectors including; crane booms in construction, bridge structures in civil engineering, truck bodies and quick hitch couplings in mining and quarrying as well as military applications.

Sourced from major European mills Corus (RQT 701) and Dillinger (Dillimax 690 QL), the S690 QL product range has a high strength to weight ratio with twice the strength of mild steel. Available from 3 to 120 mm thickness, S690 QL can be machined and drilled using high speed steel or cemented carbide tools and can be sheared, flame cut, cold bended or hot formed as desired.

In addition to supplying plate from stock, IMS UK has the manufacturing resources to profile or cut the plate to exact customer specifications. Use of SolidWorks CAD software enables the design of bespoke products for a particular customer plant or application.

But it is not just the strength to weight ratio that makes S690 QL cost effective, the related benefits are also visible. Lighter vehicles mean larger payloads, lower running costs and a positive environmental result.

↳ **Key Technical Data, S690 L**

A high strength quenched and tempered structured steel with excellent forming and welding properties

<b>Applications</b>	Crane booms, mining and earthmoving equipment, bridges, material handling, trailers and agricultural equipment.										
<b>Hardness</b>	690 MPa										
<b>Composition</b>	<b>C</b>	<b>Mn</b>	<b>Si</b>	<b>P</b>	<b>Cr</b>	<b>Cu</b>	<b>Mo</b>	<b>Ni</b>	<b>B</b>	<b>V</b>	
	0.20	1.70	0.80	0.20	1.50	0.50	0.70	2.00	0.005	0.12	
<b>Thickness</b>	3-120mm										

contact Abraservice UK for full technical data sheet.

↳ **Benefits, S690 L**

- High yield, high strength plate
- Excellent forming and welding properties
- Ideal for weight saving, high stress applications
- Suitable for crane booms, mining and earthmoving equipment, bridges, material handling, trailers and agricultural equipment

↳ **Processing Facilities**

- CAD/CAM Profiling
- Perforating
- Plasma Profiling
- Forming
- Laser Profiling
- Drilling and Countersinking
- Oxy-gas Profiling
- Bevelling
- DXF Compatible
- Welded Fabrications

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