





Technical Excellence

All of our leathers are tested and certified to meet the most exacting standards of performance and safety.

Our standard stock leathers within this card are tested to British Standard BS 6608:1985 and EN ISO 13336 for thickness, tear strength, flexing endurance, colour fastness, resistance to blocking, adhesion of finish and ph of aqueous extract.

Product Characteristics			Lustrana	Sateen	Caledonian 20:20	Metallic	Gramplan	Ingleston	
Description	Test Method	Minimum Performance Standard							
Colour Fastness to Rubbing (Water)	EN ISO 11640/1	150 Cycles Min 3 Grey Scale	●	●	●	●		●	
		500 Cycles Min 3 Grey Scale							
Colour Fastness to Rubbing (Perspiration)	EN ISO 11640/1	50 Cycles Min 4 Grey Scale	●	●	●	●	●	●	
		100 Cycles Min 4 Grey Scale							
Colour Fastness to Rubbing (Dry)	EN ISO 11640/1	500 Cycles Min 4 Grey Scale	●	●	●	●	●	●	
		1000 Cycles Min 4 Grey Scale							
Light Fastness	ISO 105-B02	Min 6 Blue Wool	●	●	●	●	●	●	
Finish Adhesion Dry	ISO 11644	5N/10mm	●	●	●	●	●	●	
Finish Adhesion Wet	ISO 11644	2N/10mm	●	●	●	●	●	●	
Burning Behaviour	B55852	Crib 5 Pass	●	●	●	●	●	●	
Burning Behaviour	IMO Module B	Certified	●	●	●	●	●	●	
Burning Behaviour	FAR 25.853	Vertical Burn Pass	By Special Order	●	By Special Order	By Special Order		By Special Order	
Burning Behaviour	ABD 031	<200Ds	By Special Order	By Special Order	By Special Order	By Special Order		By Special Order	
Burning Behaviour	BS 6853:1999	Rail Class 1B & 2	By Special Order	By Special Order	By Special Order	By Special Order		By Special Order	
Burning Behaviour	DIN 5510	Pass	By Special Order	By Special Order	By Special Order	By Special Order		By Special Order	
Flexing Endurance	ISO 5402-1:2011	20000 Cycles No Finish Cracks	●	●	●	●		●	
		100000 Cycles No Finish Cracks							
Tear Strength	B53144	35N	●	●	●	●	●	●	
	ISO 3377-2:2002	25N	●	●	●	●	●	●	
Tensile Strength	ISO 3376	12N/mm <sup>2</sup>	●	●	●	●	●	●	
Elongation at Break	ISO 3376	35% to 60%	●	●	●	●	●	●	
Abrasion	ISO 17076-1:2012 (C510/ 500g)	500 Cycles No Rupture of Finish	●	●	●	●		●	
		1000 Cycles No Rupture of Finish							
Fogging	STD 1027.2711-3	90%					●		
Cold Crack	ISO 17233:2002	No Finish Cracks At -30°C					●		
Dry Heat Shrinkage	ISO 17227	<5% After 168 Hrs At 93°C					●		
Weight		850g/m <sup>2</sup> +/-25g/m <sup>2</sup>	●	●	●	●		●	
		900g/m <sup>2</sup> +/-25g/m <sup>2</sup>					●		
Substance	ISO 2589:2002	1.0mm	●	●	●				
		1.1mm				●			
		1.2mm					●	●	
Colour D65, TL84, A	-	Visual Match to Master	●		●	●		●	
	Spectrophotometer	<1.0 ΔE		●	●		●	●	
Hide Size		Average 4.5m <sup>2</sup>					●	●	
		Average 4.8m <sup>2</sup>	●	●	●	●			
Product Application Key									
AVI	AUT	Automotive	CDF	AVI	AUT	AUT	AUT	AUT	AUT
B&C	CDF	Commercial & Domestic Furniture	MRN	B&C	CDF	B&C	B&C	B&C	B&C
MRN	RA	Rail		MRN	RA	MRN	MRN	MRN	MRN

They also conform to BS5852 Part 2 2006 Crib Source 5 when used in conjunction with a CMHR foam.

For full details of the tests, log onto our websites [www.muirhead.co.uk](http://www.muirhead.co.uk) and [www.bowleather.co.uk](http://www.bowleather.co.uk)

When two are better than one

The combined experience of Andrew Muirhead & Son Limited and Bridge of Weir Leather Company Limited. Both are Scottish Leather Group Limited companies



Bespoke Sampling and Production

As a flexible, fully vertical tannery, we are best placed to take care of any bespoke leather you may require.

We typically produce A4 samples within one working week, from your Pantone, RAL or NCS colour references allowing you to take our high performance quality leather and customise it for your specific requirements. Custom production follows your colour match approval.

In addition to standard specifications our leather can be manufactured to the following specifications for the rail industry.

BS6853 Class 1B  
BS 6853 Class 2  
DIN 5510  
French M and F test requirements.

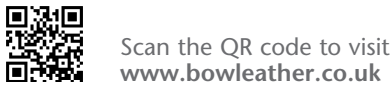
Orders from our stock ranges placed before 2pm are despatched same day to the UK mainland for next day delivery.

Samples can be ordered online, via email or by contacting us at the tannery.

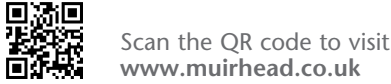
Muirhead / Bridge of Weir - online

[www.muirhead.co.uk](http://www.muirhead.co.uk) and [www.bowleather.co.uk](http://www.bowleather.co.uk) offers online sampling as well as a range of other services, including a FAQ section, contact details for your nearest representative and a valuable insight into the markets we currently supply as well as general company information.

An individual shade card in any of the colours shown can also be ordered online, or by contacting the tannery direct.



Scan the QR code to visit [www.bowleather.co.uk](http://www.bowleather.co.uk)



Scan the QR code to visit [www.muirhead.co.uk](http://www.muirhead.co.uk)



To order any of the leathers featured, or to discuss how we can help you find the leather you are looking for, log onto our websites or contact us direct:

Andrew Muirhead & Son Limited

Registered Office and Tannery

Dalmarnock Leather Works, 273 - 289 Dunn Street, Glasgow G40 3EA, Scotland

Telephone: +44 (0)141 550 6400 Facsimile: +44 (0)141 554 4741 Email: [sales@muirhead.co.uk](mailto:sales@muirhead.co.uk)



Colour Collection



Colour Collection



Leather for a Modern World

For over a century Andrew Muirhead & Son and Bridge of Weir Leather Company have been at the forefront of the leather industry, producing high performance quality leathers from hides reared through a unique blend of animal husbandry and fertile grazing, predominantly in Scotland.

Each and every hide is unique, with its own character and qualities, including growth lines, scars, and variations of grain and tone. These are testament to the natural origin of the leather and should not be regarded as a defect or fault.

Access to the finest raw materials helps us provide our customers with consistently high quality, finest Scottish leather.

We have an enviable track record in developing innovative solutions, on time and to budget across the diverse industries that we supply.

Offering a range of the finest leathers in a wide variety of colours, finishes and distinctive technologies we can meet the exacting needs of the modern designer.

Environmental Pioneers

As the importance of the environment plays an increasing role in business, more and more 'Green Standards' appear.

One standard exists above all these, however. ISO14001 is the original and still the most exacting measure of a company's environmental commitment and we are proud to hold accreditation to the world's most comprehensive environmental management system.

After substantial investment, we operate the leather industry's only Thermal Energy Plant where process waste is recycled into energy for use in the manufacturing process.

Visit [www.lowcarbonleather.com](http://www.lowcarbonleather.com) for more information.

Our Stock Leathers

**Caledonian 20:20** - 1.0mm luxury leather with a matt finish and a haircell grain suitable for all domestic and contract upholstery applications.

**Ingleston** - 1.2mm leather with a pronounced linear grain and matt finish suitable for all upholstery applications.

**Gramplan** - 1.2mm leather with luxurious pebbled grain which is suitable for use in any high traffic environment.

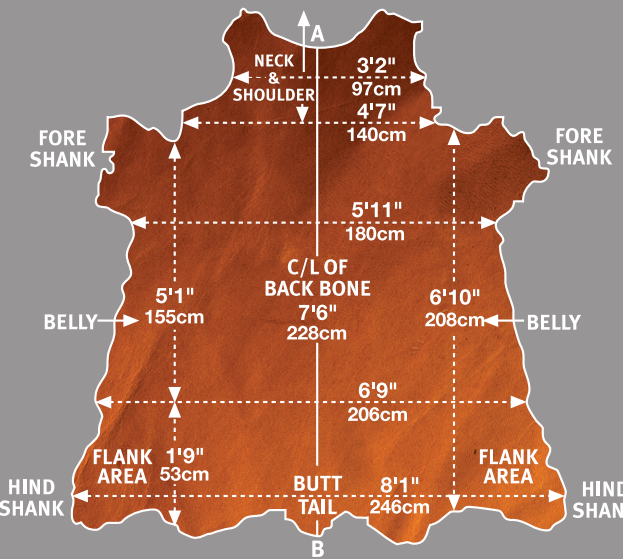
**Lustrana** - 1.0mm leather with a bright two-tone finish and haircell grain, suitable for most contract and domestic applications, and popular for traditional style upholstery.

**Metallic** - 1.1mm leather with a metallic finish and an Orkney grain suitable for all upholstery applications.

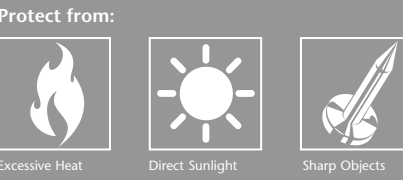
**Sateen** - 1.0mm premium leather with a matt finish and a haircell grain. Fully fire retardant and is certified to conform with airworthiness and public seating specifications.

Know Your Hide

As a natural product, every hide differs in shape and size – this diagram is for guidance only. Allow for a variation of 4.5 to 5.5 square metres / 48 to 60 square feet.



Care for Your Leather



This document is produced on card carrying the following accreditations:

ISO 9001, ISO 14001 accredited manufacturer  
FSC Mixed 70%  
EFC pulp from well managed and sustainable forests

