

# Almen Strip Specifications Table

**"A" strips** Rev. 0  
inches(mm)

SPECIFICATION	LENGTH		WIDTH		THICKNESS		FLATNESS	HARDNESS
<i>Electronics Inc.</i> <i>Grade A-1S</i>	<u>3.008</u> 2.985	2.9965 ± 0.0115	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0513</u> 0.0505	0.0509 ± 0.0004	±0.0005	HRC 45-48
	<u>(76.40)</u> <u>(75.82)</u>	(76.11 ± 0.29)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.303)</u> <u>(1.283)</u>	(1.293 ± 0.01)	(±0.013)	
<i>Electronics Inc</i> <i>Grade A-1B</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 45-48
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.295 ± 0.025)	(±0.038)	
<i>Electronics Inc.</i> <i>Grade A-1</i>	<u>3.008</u> 2.985	2.9965 ± 0.0115	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	<u>(76.40)</u> <u>(75.82)</u>	(76.11 ± 0.29)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.311)</u> <u>(1.270)</u>	(1.2905 ± 0.0205)	(±0.025)	
<i>Electronics Inc.</i> <i>Grade A-2</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.295 ± 0.025)	(±0.038)	
<i>Electronics Inc</i> <sup>2</sup> <i>Grade A-3</i> NSN 6635-00-512-1892	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.295 ± 0.025)	(±0.038)	
AiResearch EMS92406 <i>[Grade A-1S]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0515</u> 0.0505	0.051 ± 0.0005	±0.0005	HRC 45-48
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.308)</u> <u>(1.283)</u>	(1.2955 ± 0.0125)	(±0.013)	
ASTM B851-94 <i>[Grade A-1]</i>	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.748</u> 0.744	0.746 ± 0.002	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	<u>(76.40)</u> <u>(75.60)</u>	(76.0 ± 0.4)	<u>(19.00)</u> <u>(18.90)</u>	(18.95 ± 0.05)	<u>(1.311)</u> <u>(1.270)</u>	(1.2905 ± 0.0205)	(±0.025)	
BAEP 2009 <i>[Grade A-2]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.038)	
Bell Helicopter TEXTRON BPS FW4409 <i>[Grade A-1]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.025)	
Boeing BAC5730 M <i>[Grade A-1B]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 45-48
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.038)	
Boeing BAC5730 N <i>[Grade A-1B]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 45-48
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.038)	
Boeing PSD 6-81 <i>[Grade A-2]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.038)	
Boeing PSD 6-88 <i>[Grade A-2]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.038)	
Boeing P.S. 14023 <i>[Grade A-1]*</i>	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	0.746 ± 0.004	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	<u>(76.40)</u> <u>(75.60)</u>	(76.0 ± 0.4)	<u>(19.05)</u> <u>(18.85)</u>	(18.95 ± 0.1)	<u>(1.311)</u> <u>(1.270)</u>	(1.2905 ± 0.0205)	(±0.025)	
Caterpillar 1E 2054 <i>[Grade A-1]*</i>	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	0.746 ± 0.004	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	<u>(76.40)</u> <u>(75.60)</u>	(76.0 ± 0.4)	<u>(19.05)</u> <u>(18.85)</u>	(18.95 ± 0.1)	<u>(1.32)</u> <u>(1.27)</u>	(1.295 ± 0.025)	(±0.025)	
deHavilland Aircraft PPS. 17.03 <i>[Grade A-2]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.038)	
Garrett Aviation GPE-00071 <i>[Grade A-2]</i>	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> <u>(75.82)</u>	(76.20 ± 0.38)	<u>(19.05)</u> <u>(18.92)</u>	(18.985 ± 0.065)	<u>(1.321)</u> <u>(1.270)</u>	(1.2955 ± 0.0255)	(±0.038)	

# Almen Strip Specifications Table

**"A" strips** Rev. 0  
inches(mm)

General Dynamics FPS-1302 [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
GE D50TF14-S1 [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
GE P11C-AG4 Rev. D [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
GE P11TF3-S6 [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
GE P11TF3-S11 [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
GE P11TF3-S13 [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
General Motors Engineering Standards GM 4283p [Grade A-1]	3.007 2.977	2.992 ± .015	0.748 0.744	.746 ± .002	0.0524 0.0500	0.0512 ± 0.0012	±0.0008	HRC 44-55
	(76.38) (75.62)	(76.0 ± 0.38)	(19.00) (18.90)	(18.95 ± 0.05)	(1.330) (1.270)	(1.30 ± 0.03)	(±0.020)	
Hartzell 61-01-02 [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 45-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Hawker Siddeley Aviation S.29.46 [Grade A-1]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	(76.58) (75.60)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.025)	
Lockheed-Georgia STP51-501 [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
MIL-P-81985 [Grade A-1]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.025)	
MIL-S-13165C [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Navar 02-1-517/T.O. 2-1-11/DMWR 55-2800-206 [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Navistar International Transportation Corp. CEMS A-39 [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44 - 50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
NSN 6635-00-512-1892 [Grade A-3] <sup>2</sup>	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Pangborn DV43417 [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.295 ± 0.025)	(±0.038)	
Pratt & Whitney 70-41-02 [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Pratt & Whitney PT444143 A [Grade A-1S]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0515 0.0505	0.051 ± 0.0005	±0.0005	HRC 45-49
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.308) (1.283)	(1.2955 ± 0.0125)	(±0.013)	

# Almen Strip Specifications Table

**"A" strips** Rev. 0  
inches(mm)

Pratt & Whitney PWA 36906 [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44 - 50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Pratt & Whitney TAM34744 M [Grade A-1]*	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.025)	
SAE-AMS-13165C [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
SAE AMS2430L <sup>1</sup> [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
SAE AMS2432B [Grade A-1S]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0513 0.0503	0.0508 ± 0.0005	±0.0005	HRC 45-48
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.303) (1.278)	(1.2905 ± .0125)	(±0.013)	
SAE J442 JAN-95 [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44 - 50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Sikorsky Aircraft [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
SPOP 501 [Grade A-1]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Volvo Aero Corp 18 22 58 [Grade A-1S]*	3.008 2.976	2.992 ± 0.016	0.750 0.742	0.746 ± 0.004	0.0513 0.0503	0.0508 ± 0.0005	±0.0005	HRC 45-48
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.303) (1.278)	(1.29 ± .01)	(±0.013)	
Wheellabrator 74268 [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.295 ± 0.025)	(±0.038)	

**NOTE:** <sup>1</sup> SAE AMS2430L section 3.2.2 states Test Strips: Shall conform to SAE J442 ...

<sup>2</sup> Guaranteed to meet the Spec for NSN6635-00-512-1892 but not certified

\* Conforms to SAE J442 of JAN-95

References the length  
measured in inches

References the width measured in  
inches

References the thickness  
measured in inches

References the flatness  
measured in  
inches

References  
measured in  
Rockwell hardness  
C scale

Electronics Inc. Grade A-1	3.008 2.985	2.9965 ± 0.0115	0.750 0.745	.7475 ± 0.0025	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.82)	(76.11 ± 0.29)	(19.05) (18.92)	(18.985 ± 0.065)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	

A

B

C

D

E

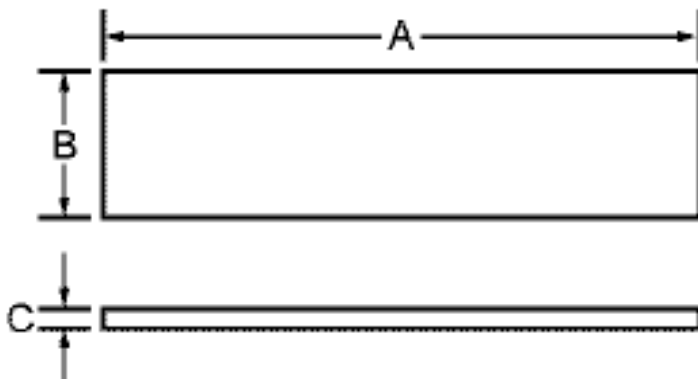
References to the  
specification it meets

References the length  
measured in millimeters

References the width measured in  
millimeters

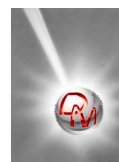
References the thickness  
measured in millimeters

References the flatness  
measured in  
millimeters



**FLATNESS**  
**D**

**HARDNESS**  
**E**



Distributed By:

Dawson-Macdonald Co., Inc.  
845 Woburn Street - Wilmington, MA 01887  
Phone: (800) 556-4456 (toll free) Fax: (978) 657-8740  
E-mail: info@dawson-macdonald.com  
Website: www.dawson-macdonald.com