

Bad Axe Basic Sawfiling Weekend Seminar Itinerary

Day One

Introductions & Orientation 0800-0900:

0900-0915: **Supplies & Tools Review**

0915-0930: Disassembling a backsaw

Make your Own BAMS 0930-1000: Understanding the traditional folded sawback

Reassembly and Retensioning 1000-1030:

Bench Hooks and Saw Benches 1030-1115:

Set Strength Tolerances 1115-1130: Sawfiling Principles: hammer-set & sharpening to joint

1130—1200: Hammer-set Orientation

1200-1230: Lunch

1230-1300: Sawtooth geometry

PPI vs. TPI and Jointing 1300-1315:

1315-1400: Marking & hammer-set a 8 ppi sawplate

1400-1500: Sharpening Dry-Fire a 8 ppi toothline.

Stroking your file. 1500-1515:

1515-1645: Sharpening Live-Fire on a 8 ppi toothline.

1645-1700: Review and report for duty at the Bodega Brew Pub

(4th & Pearl – 122 rth St. S, La Crosse, WI 54601.



Stone your toothline











Bad Axe Advanced Sawfiling Seminar Itinerary, 24-25 March

Day Two

0830-0845: Dry-Fire/Live-Fire a 10 ppi toothline.

0845-1200: Sharpen your 10 ppi hand or panel saw.

• 1200-1230: Lunch

• 1230-1300: Dry-Fire/Live-Fire a 6 ppi toothline.

• 1300-1330: Demo: <u>crowding</u> a toothline for symmetry.

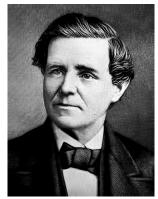
• 1400-1600: Sharpen your 6 ppi hand or panel saw.

• 1600-1630: Review.

Sawsmithing Demo

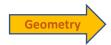
Truing Plate/Back Ass'y

<u>Understanding Saw Files</u>



The Henry Disston Story











Orientation & Administrative Notes

Let's meet first and organize:

- Introductions: In two minutes, tell us your life story ©.
- Bench Leaders (voluntary): coaching, bench organization & supply accountability.
- Everyone: help each other out. We all have a dedication to excellence in common.

Training Hours:

- Friday: 0800-1700 (long day; I stay until 1730)
- Saturday: 0830-1500 (I stay until 1530)
- Brush & vacuum sawfiling dust regularly

Workbench Hygiene:

- Keep things organized at all times.
- Create simple tool storage block
- Sawmaking supplies neatly stored at all times

Safety:

- Wear dust mask & safety goggles
- How to mount/change out handles on your files
- Brush & vacuum sawfiling dust regularly

Goal: disassemble, clean, and reassemble, retension and reassemble, retension backsaw sharpen your own backsaw









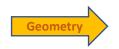


Friedrich Dick Needle File Sizing for dovetail & carcase saws

Threesquare

	· jenney						
	7						
Item No.	shape	length	section	Cut	packaging	unit	
21321010	Threesquare	4"	2,9 mm	1	box	10	
21321020	Threesquare	4"	2,9 mm	2	box	10	
21321030	Threesquare	4"	2,9 mm	3	box	10	
21321040	Threesquare	4"	2,9 mm	4	box	10	
21321410	Threesquare	5 1/2 "	3,6 mm	1	box	10	
21321420	Threesquare	5 1/2 "	3,6 mm	2	box	10	
<mark>21321430</mark>	Threesquare	<u>5 1/2 "</u>	3,6 mm	3	box	10	
21321440	Threesquare	5 1/2 "	3,6 mm	4	box	10	
21321450	Threesquare	5 1/2 "	3,6 mm	5	box	10	
21321610	Threesquare	6 1/2 "	3,9 mm	1	box	10	
21321620	Threesquare	61/2"	3,9 mm	2	box	10	
21321630	Threesquare	61/2"	3,9 mm	3	box	10	
21321640	Threesquare	6 1/2 "	3,9 mm	4	box	10	
21321650	Threesquare	6 1/2 "	3,9 mm	5	box	10	
21321800	Threesquare	7-	4,3 mm	00	box	10	
21321810	Threesquare	7"	4,3 mm	1	box	10	
21321820	Threesquare	7=	4,3 mm	2	box	10	
21321830	Threesquare	7"	4,3 mm	3	box	10	
21321840	Threesquare	7"	4,3 mm	4	box	10	
21321850	Threesquare	7 "	4,3 mm	5	box	10	
21322000	Threesquare	8"	4,5 mm	00	box	10	
21322010	Threesquare	8"	4,5 mm	_1	box	10	
<mark>21322020</mark>	Threesquare	8"	4,5 mm	2	box	10	
21322030	Threesquare	8"	4,5 mm	3	box	10	
21322040	Threesquare	8"	4,5 mm	4	box	10	
21322050	Threesquare	8*	4,5 mm	5	box	10	





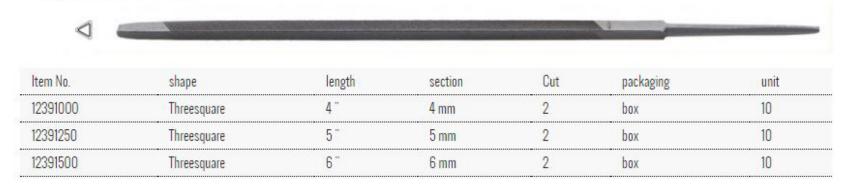






Friedrich Dick File Sizing for tenon and handsaws

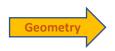
Saw file double extra narrow



Saw file narrow













Friedrich Dick File Sizing for tenon and handsaws

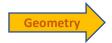
File Sourcing:

- Classic Hand Tools (UK)
- Workshop Heaven (UK)
- Rubank Verktygs (Sweden)
- Baptist Tools (Netherlands)
- Dictum (Deutschland)

File Brands:

- Friedrich Dick (Deutschland)
- Corradi (Italy)
- Vallorbe (Switzlerland)
- Bahco (Sweden/Portugal



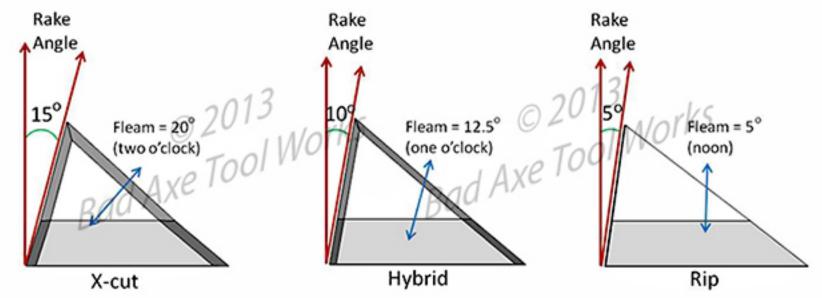








Bad Axe Filing Profiles

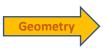


- Cutting tenon shoulders
- Off-cuts, Dados, miters
- Slow at the expense of edge retention & accuracy
- Highly overrated

- Ripping Tenon Cheeks
- Cutting tenon shoulders
- Offcuts
- Dados, rabbets, miters
- Actionable
- Incredibly versatile

- Ripping Tenon Cheeks
- Ripping boards to width
- Aggressive—a big plus
 when working with
 moisture-laden softwoods



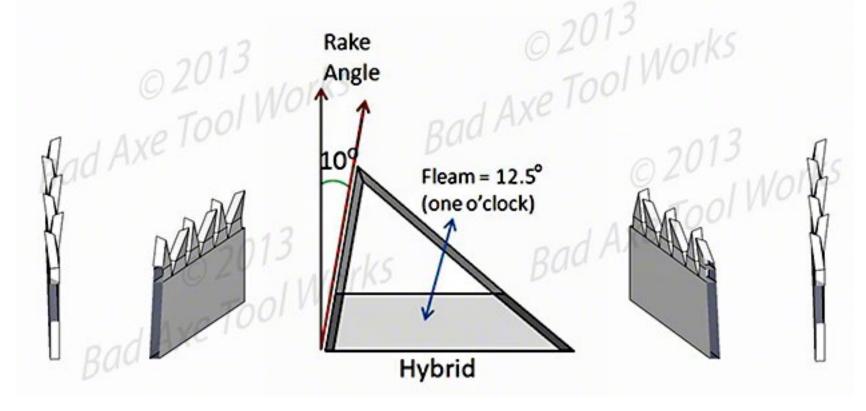








Hybrid-Filing Demystified



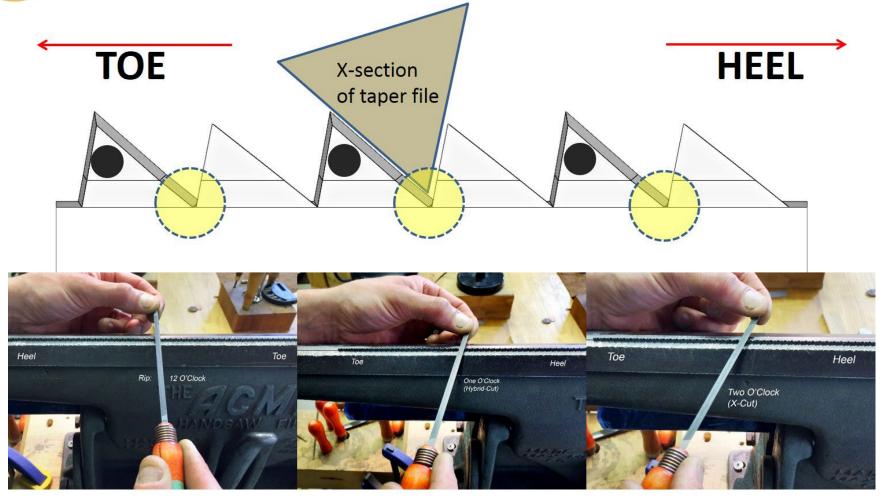
- No magic. The geometry is simply split between dedicated rip and dedicated x-cut.
- What truly matters is that the teeth are hammer-set and sharpened to joint.
- Get the best of both worlds (rip & x-cut) so you can use one saw for the majority of your cuts, and less apt to clutter your bench.





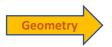


Using the Clock Method (1st pass)



Rip: 12 o'clock Hybrid: 1 o'clock X-Cut: 2 o'clock



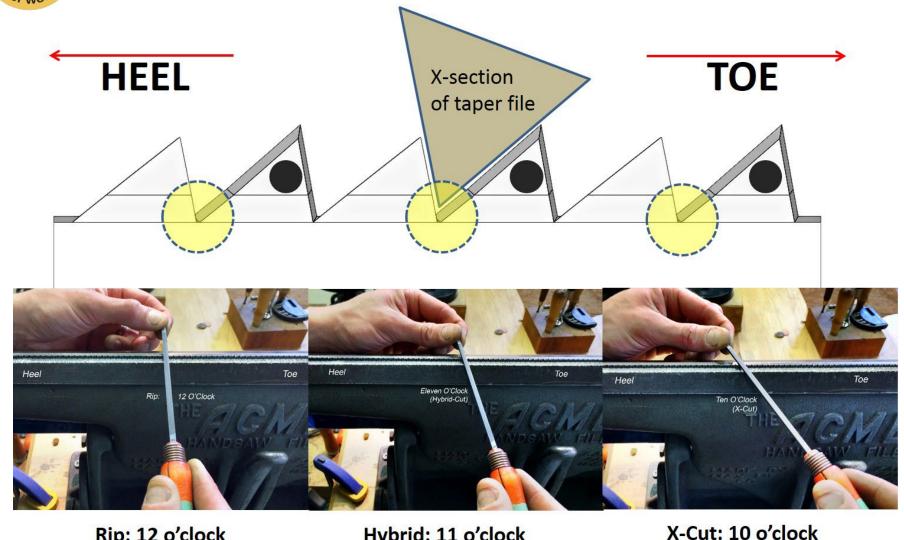








Using the Clock Method (2nd pass)



Rip: 12 o'clock

Toe

Hybrid: 11 o'clock





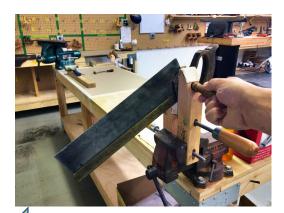
Disassembly/Reassembly & Retensioning



- If you can disassemble, restore & reassemble an old plane, you can do the same to a traditional backsaw.
- Procedure is for a traditional folded sawback only.
- This also applies to tightening handles.











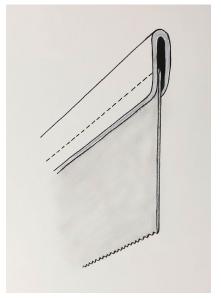
Understanding the Traditional Folded Sawback



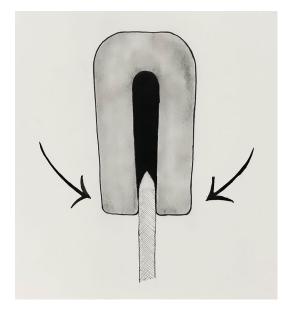


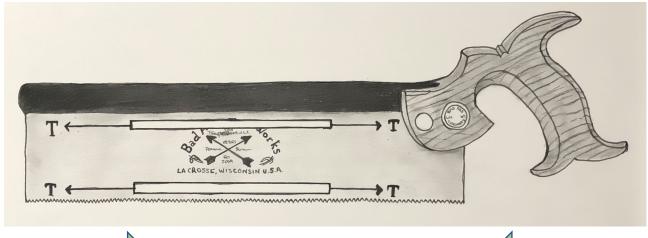


Understanding the Traditional Folded Sawback



- The traditional folded sawback is sprung onto the spine of the sawback.
- It is intended to allow the plate to slip out of tension before kinking under duress.
- The back can be completely removed and re-mounted.











Reassembling your Backsaw



- Clamp your plate in the BAMS, & wax the spine
- Mount the back forward and high
- Mount the handle
- Close the air gaps
- Retension
- Assess







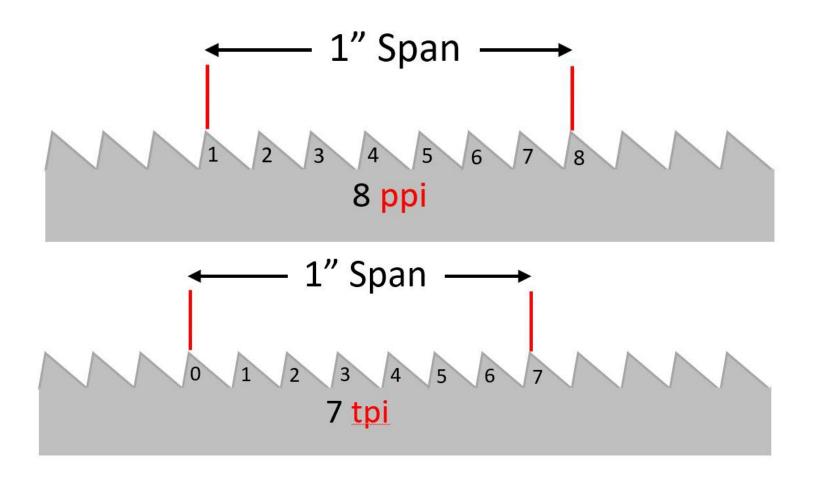




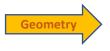




PPI vs. TPI





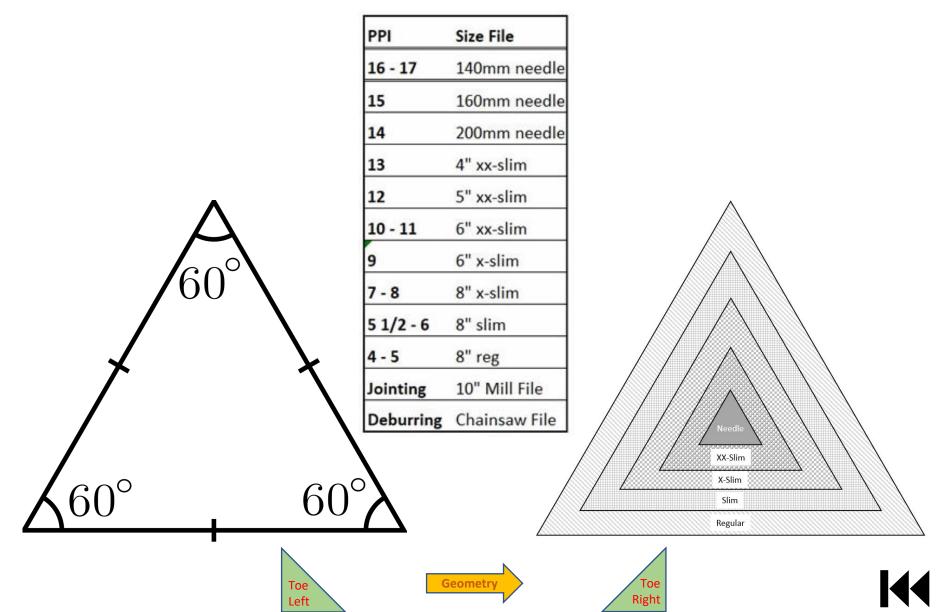








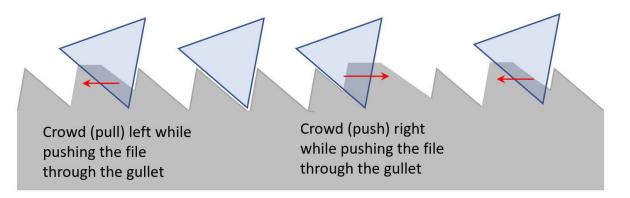
Saw Sharpening Files

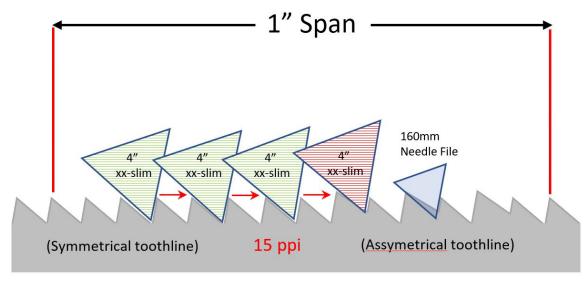


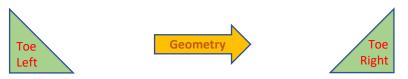


Crowding & Symmetry

Crowding the Toothline



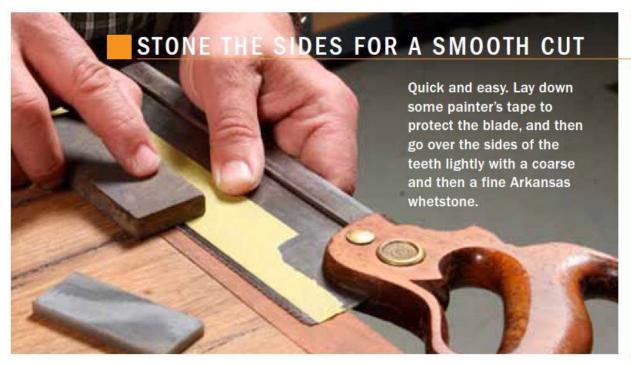








Stoning your toothline





- Stoning evens out the set by reducing burrs
- Use a hard Arkansas stone initially before getting aggressive
- If you're making more than three back & forth swipes, you've overset your teeth
- Consider the gauge of metal when seeting and the loss of .005 to .015 you'll incur through stoning.











Set Strength Tolerances

Plate	Pre-Sharp	Post-Sharp	Stoned
0.015	.023024	.022023	0.021
0.018	.027028	.026027	0.025
0.020	.02903	.028029	0.028
0.025	.035036	.034035	0.033
0.032	.044045	.042043	0.041
0.040	.053054	.052053	0.051

- Final set goal post sharpening/stoning listed on right-side column.
- Set lessens with thinner plates; increases with thicker plates.
- Adjust hammer-set to achieve pre-sharp set objective.
- Sharpening process will lessen set.
- Use a hard Arkansas stone and dial caliper to dial in optimal set strength.









Brush Stroke Assessment

