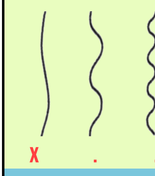
Sam Launius
custom skis
POWDER

Sam, here's your design for a Powder specific ski. If you have any questions or would like to make changes, please let me know. Thanks and have fun.

TURN RADIUS



TURN RADIUS APPLIES WHEN YOU SET YOUR SKI ON EDGE ON HARDPACK AND YOUR SKIS FOLLOW THE PRESCRIBED RADIUS. IN POWDER, TURN RADIUS HAS LESS EFFECT BECAUSE YOU DON'T SKI ON EDGE. OVERALL THERE ARE 3 TYPES OF TURNS: TIGHT, MEDIUM & LONG. WE TRANSLATE YOUR TURNING PREFERENCE INTO THE BEST TURN RADIUS FOR YOU.

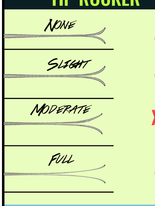
Your skis have a near straight side cut. Were not even sure how they will turn if ever on edge. These skis are more in line with speed record planks.

TIP FLEX

TIP FLEX HAS A SIGNIFICANT INFLUENCE ON THE OVERALL PERFORMANCE OF YOUR SKIS. THE TIP OF THE SKIS INITIATE YOUR TURNS AND ACT AS SUSPENSION THROUGH CRUD AND POWDER. DEPENDING ON HOW MUCH YOU WEIGHT AND HOW FAST YOU SKI, WE MATCH THE TIP FLEX VALUES TO THE TYPE OF SKIS YOUR DESIGNING AND HOW YOU LIKE TO TURN.

Your skis have a Medium Tip Flex relative to your weight and how fast you ski. This is a slightly progressive tip and works well for someone who initiates the turn with a slight forward pressure on the shin. Still an easy profile to initiate a turn and good suspension in crud and powder.

TIP ROCKER



DESIGNED BY NORWEGIANS CENTURIES AGO TO BREAK TRAIL FASTER, ROCKER ENHANCES PERFORMANCE IN CRUD & POWDER BY DEVELOPING LIFT IN YOUR SKI TIPS. THIS ALLOWS YOU TO SKI WITH FORWARD PRESSURE, RATHER THAN LEANING BACK, TO KEEP YOUR TIPS FROM DIVING. ALSO, BY REDUCING THE CONTACT AREA OF YOUR SKIS, LONGER SKIS FEEL SHORTER AND ARE EASIER TO MANEUVER.

Your skis have a moderate tip rocker. Excellent for an all mountain ski leaning toward powder performance. Your skis will be nimble at lower speeds for a degree of playfulness and rip at high speeds in deep powder and heavy chop or crud.

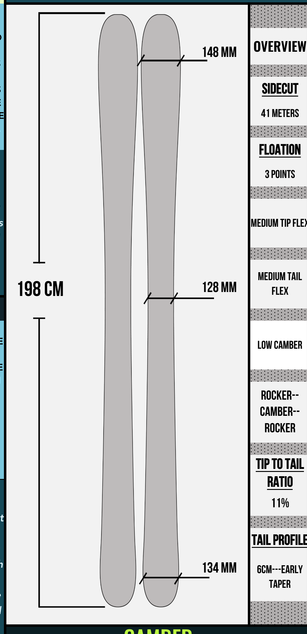
TIP TO TAIL RATIO

THE RATIO REFERS TO THE DIFFERENCE IN TIP WIDTH TO TAIL WIDTH. THE CLOSER A RATIO IS TO ZERO, MEANING THE TIP WIDTH IS EQUAL TO THE TAIL WIDTH, THE MORE INTENSE THE TAIL WILL HOLD IN DEEP CARVES. BUT WITH A MORE MODERATE SIDE CUT, THESE SKIS SKI SYMMETRICALLY WHEN RIDING SWITCH WITH A CENTER MOUNT. AS THE RATIO MOVE TOWARD THE MODERATE NUMBERS, 108% THRU 110%, YOU ENTER THE ZONE OF ALL MOUNTAIN PERFORMANCE. TAILS THAT RELEASE WITH LESS EFFORT AND LEND A SKI IN A MORE RELAXED, YET STILL PREDICTABLE QUALITY. AS YOU INCREASE THE VALUE, THE TAIL WILL DEVELOP AN *IN SNOW GEOMETRY* THAT DROPS AND CREATES LIFT IN THE TIP. THESE PINNED IN TAIL ARE LOSE IN BOTH POWDER AND PISTE CONDITIONS.

Sam, the Tip to Tail ratio of your skis is 11%. This is a moderately pinned in tail which drops in powder to provide additional lift for the tips of your skis. These tail are loose in both powder and hardpack.

-- OVERVIEW --

Your skis are designed for max floatation in deep powder. The in-snow ski geometry allows for the tip to ride high and the tail to drop so you can charge the deep stuff. The ski is full length for stability at high speeds but the shape will still give you playfulness and turnability in trees and technical terrain.



OVERVIEW

SIDECUT
41 METERS

FLOATION
3 POINTS

MEDIUM TIP FLEX

MEDIUM TAIL FLEX

LOW CAMBER

ROCKER--CAMBER--ROCKER

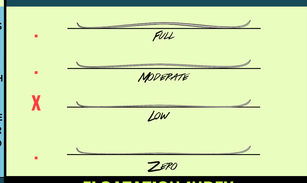
TIP TO TAIL RATIO
11%

TAIL PROFILE
6CM---EARLY TAPER

CAMBER

CAMBER IS THE ARCH BUILT INTO A SKI WHICH IS RESISTANT TO THE FLEXING YOUR SKIS GOES THROUGH WHEN CARVING. WHEN YOUR SKIS FLEX THROUGH CAMBER THE TOPSIDE FIBERS COMPRESS AND THE BOTTOM FIBERS TENSIONS. THESE COMPRESSION/TENSION FORCES IMPART A SENSE OF LIVELINESS IN YOUR SKIS WHEN YOU TRANSFER FROM ONE TURN TO THE NEXT. THEY WILL ALSO QUIET THE TIPS OF YOUR SKIS DUE TO THE DOWNWARD PRESSURE THEY EXERT.

You have low camber which imparts a slight loading when crossing the fall line on hard pack and good responsiveness in crud and powder when porposing. Typically low camber is specified for skis leaning toward powder performance.

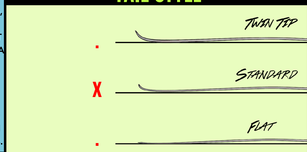


FLOATATION INDEX

THIS IS AN ESTIMATION OF HOW MUCH FLOAT YOUR SKIS WILL HAVE IN POWDER. IT'S FACTORED BY COMPILING A VALUE FROM YOUR HEIGHT AND WEIGHT AND MATCHING IT AGAINST THE TOTAL SURFACE AREA OF YOUR SKIS. A WIDER, LONGER SKI WILL HAVE A HIGHER FLOTATION VALUE THAN A SKI WHICH IS NARROWER AND SHORTER. THE STANDARD IS 0 FOR A CARVING SKIS UPWARDS TO 4 FOR A FAT, DEEP POWDER SKI.

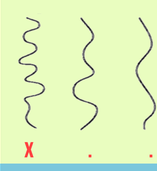
These skis have 3 Points for flotation. This is a larger platform for hardpack conditions meaning you'll lose some of the quickness edge to edge across the fall line. They'll feel stable at high speeds and transition into deep powder with no hesitation. Typically these skis have excellent in snow geometry which translates into supper fun deep powder sticks.

TAIL STYLE



EACH TAIL PROFILE HAS DISTINCT ADVANTAGES . TWIN TIP IS BEST SUITED FOR SWITCH RIDING AND PARK SKIS. THE STANDARD PROFILE IS BEST FOR ALL MOUNTAIN PERFORMANCE, ALLOWING FOR A BALANCE BETWEEN FULL EDGE CONTACT AND MANEUVERABILITY IN TECHNICAL SETTINGS. FLAT TAILS ARE FORWARD SKIING SPECIFIC AND ALLOW FOR THE LONGEST EFFECTIVE EDGE AND THE ABILITY TO STAB YOUR SKIS FOR EXPEDITION AND SKI PATROL WORK.

TURNABILITY



TURNABILITY IS BASED ON LENGTH OF YOUR SKIS IN RELATION TO YOUR HEIGHT, AMOUNT OF TIP/TAIL ROCKER AND IF YOUR SKIS HAVE EARLY TAPER. TURNABILITY IS DIFFERENT FROM TURN RADIUS IN THE SENSE THAT YOU CAN MANEUVER YOUR SKIS

Sam, this is a full stylized ski. Maximum buttering and nimbleness in open and tight terrain. Typically these skis are skittish when tracking straight on hard pack due to the rocker profile. Also, these skis have a small sweet spot so no back seat skiing.

TAIL FLEX

TAIL FLEX IN CONJUNCTION WITH UNDERFOOT TORSIONAL RIGIDITY IS KEY TO BOTH LOCK & LOAD CARVING AND LOOSE/PLAYFUL TURNS. THE MAJORITY OF THE FORCE IS TRANSFERRED TO A SKIS TAIL SECTION AS YOU MOVE THORUGH A TURN. SO A STIFFER TAIL IS IDEAL FOR CARVING. FOR A QUICKER RELEASING TAIL AND/OR FOR POWDER SKIING, A SOFTER TAIL CAN BE DESIRABLE.

Your skis are specified with a Medium Tail flex. This is an excellent profile for all mountain performance at moderate speeds and cool edge to edge turns across the fall line.

TAIL ROCKER

TAIL ROCKER LOOSENS YOUR SKIS BY DISENGAGING THE TAIL SECTION AND ALLOWING IT TO SKIM OR FLOAT. IT ALSO MAKES A SKI EXTREMELY PLAYFUL ON BOTH HARD PACK AND POWDER. IT CREATES A MIDPOINT SWEET SPOT SO MAKE SURE YOU DON'T SKI IN THE BACK SEAT.

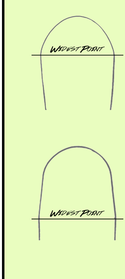
These skis have a slight tail rocker. This will loosen the tail up slightly and gain performance riding switch in powder.

CONSTRUCTION

WE USE TWO TYPE OF FIBER REINFORCEMENT, E GLASS AND CARBON. WHEN IMMERSED IN A RESIN MATRIX, BOTH DEVELOP EXCELLENT WEIGHT TO STRENGTH PROPERTIES THAT ARE FLEXIBLE AND RESILIENT. CARBON IS CONSIDERABLY STRONGER THEN E GLASS SO WE USE LESS OF IT (CONSEQUENTLY LESS RESIN) TO BUILD VERY LIGHT SKIS. KEEP IN MIND, LIGHT WEIGHT IS INSANE BUT TAKES GETTING USE TO. IF YOUR ARE PROGRESSIVE IN MIND AND HEART, TAKING THE LEAP TO ULTRA LIGHT WILL SERVE YOU WELL. IF YOU HAVE A BIG EGO, WE SUGGEST YOU STAY WITH THE E GLASS AND PRETEND.

Your skis are specified with Wet lay E glass. Structural E glass is the primary structural component. Vertically laminated Birch wood core, Sintered 2000 base stock and large flange edge stock (Rockwell 52). Great ski design is based on the correct matching of Shape, Flex and Tune with who you are and how you ski. So we use the best materials and no additives.

TIP EARLY TAPER



TAIL EARLY TAPER

EARLY TAPER

TIP SECTION EARLY TAPER IS SIMPLY THE WIDEST POINT OF A SKI IS MOVED CLOSER TO CENTER WHICH IN TURN CAUSES THE NOSE SECTION TO ELONGATE AND TAPER INWARD. TAIL EARLY TAPER IS THE SAME BUT APPLIED TO THE TAIL SECTION. EARLY TAPER IS ALMOST ALWAYS ASSOCIATED WITH A CORRESPONDING ROCKER SECTION. EARLY TAPER ACHIEVES 2 DISTINCT ADVANTAGES IN SKI DESIGN AND PERFORMANCE. IT ALLOWS US TO SHORTEN THE SECTION OF SIDE CUT UNDERFOOT WHICH ALL THINGS BEING EQUAL, DECREASES THE TURN RADIUS. THIS ALLOWS US TO DESIGN POWDER LEANING AND BIG MOUNTAIN SKIS WITH MEDIUM RADIUS SIDE CUTS. SECONDLY, THE INWARD TAPERING AT EITHER THE TIP OR TAIL SECTION ENHANCES TURNABILITY OF YOUR SKI. BECAUSE THE TIP OR TAIL SECTION IS TAPERED IT IS MORE INCLINED TO MANEUVER THROUGH CRUD AND POWDER WITH LESS EFFORT. SO WE CAN DESIGN MID FAT TO VERY FAT UNDERFOOT WITHOUT HAVING EXCESSIVELY BULKY TIPS AND TAILS.

Your skis have full blown Tip Early Taper and slight Tail Early Taper. This configuration will provide big tip lift in powder. The tail will be slightly loose and depending on your tip to tail ratio, it might be further pinned for top big mountain or deeeep powder performance. The skis will have a high degree of turnability. If you have low or no camber, this ski is pure deep snow, full throttle.

Community Skis
custom ski manufacturing