ELITE
BLADE PERFORMANCE

PROFILE GUIDE

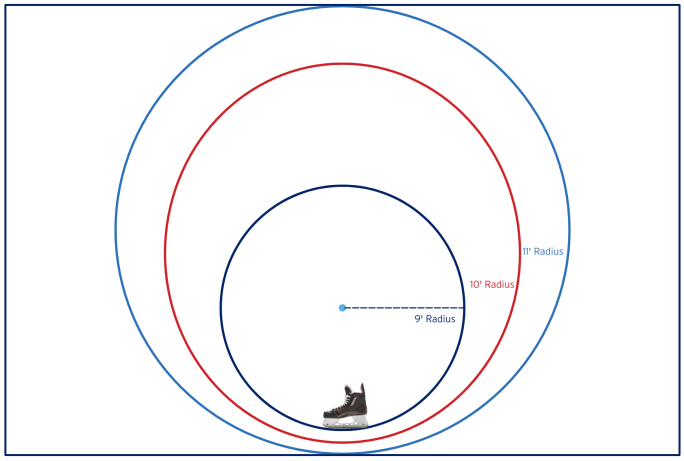
Updated June 2026

OVERVIEW

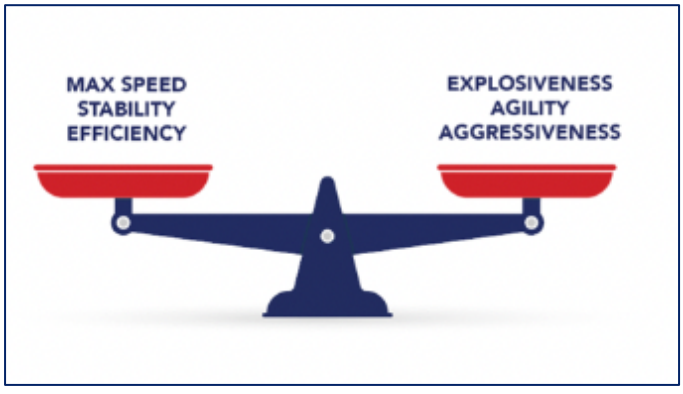
The profile of the skate blade, or the contour, is the curve of your blade from toe to heel. It is commonly measured in terms of the radius of a circle. Unlike the Radius of Hollow (ROH), measured in inches, the blade profile radius is measured in feet.

It is becoming widely understood that the shape of the blade profile has a significant influence on a player's speed, agility, power, and performance. Even very tiny changes in blade shape make a huge difference to the way a player's blades feel on the ice.

Most stock blades come with a single curve profile, i.e. a 9' or a 10-foot radius. That means the effective skating surface of the blade is shaped in an arc that represents a 10' circle. The challenge with the single curve profile is that it always involves trade-offs. Make it flatter and you will increase your speed and stability but lose agility and initial acceleration. Make it more curved and you will increase agility and explosiveness but lose speed and stability.



Performance profiling strategically combines several curves on one blade to enhance skating performance attributes. Players don't need to choose between agility and stability, or between speed and explosiveness. The right performance profile combinations allow them to have it all — more agility, more speed, more stability, and more acceleration.

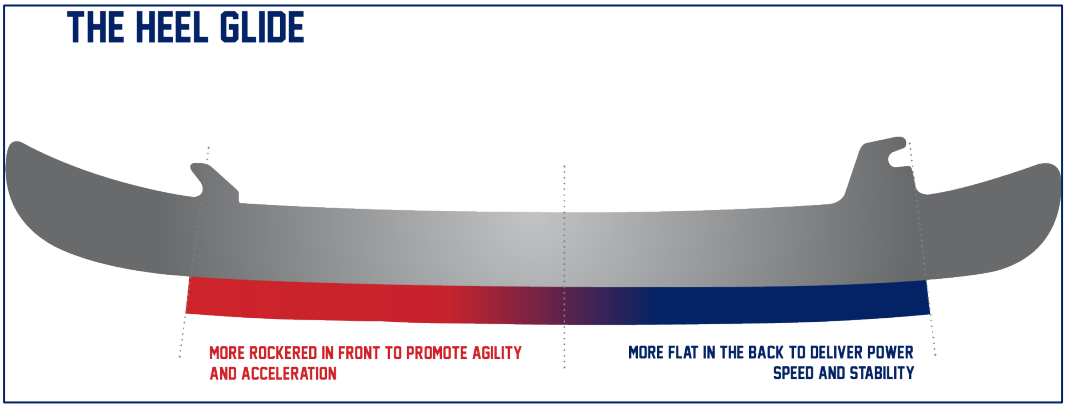


There have been many performance profile formulas tried over the years, from CAG and Prosharp to Elite. We see most of these combinations fitting into two broad categories that share common characteristics. We refer to these as **Heel Glide** profiles and **Center Glide** profiles.

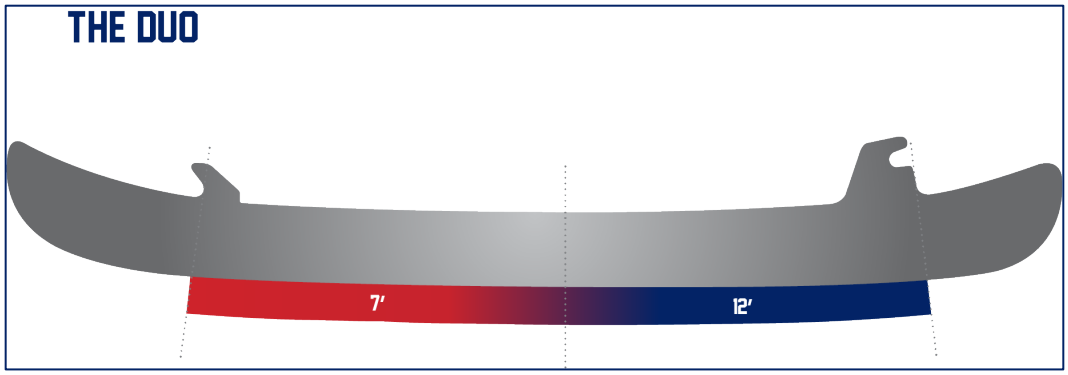
HEEL GLIDE PROFILES

Heel glides are flatter toward the heel (to enhance glide, stability, and speed) and more curved toward the toe (for agility and acceleration). The balance point is a bit front of center. Most performance profiles (i.e. multiple radius profiles) on the market today are Heel Glides.

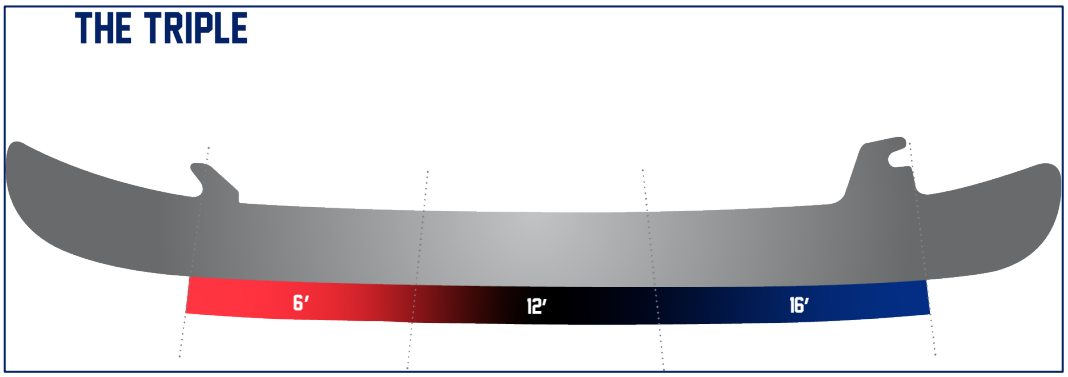
All Elite's performance Duos, Triples, Quads, and the Polaris share the common characteristic of starting out comparatively rockered in front and becoming progressively flatter towards the heel. Prosharp's Zuperiors, Quads and Duos also fit into this category.



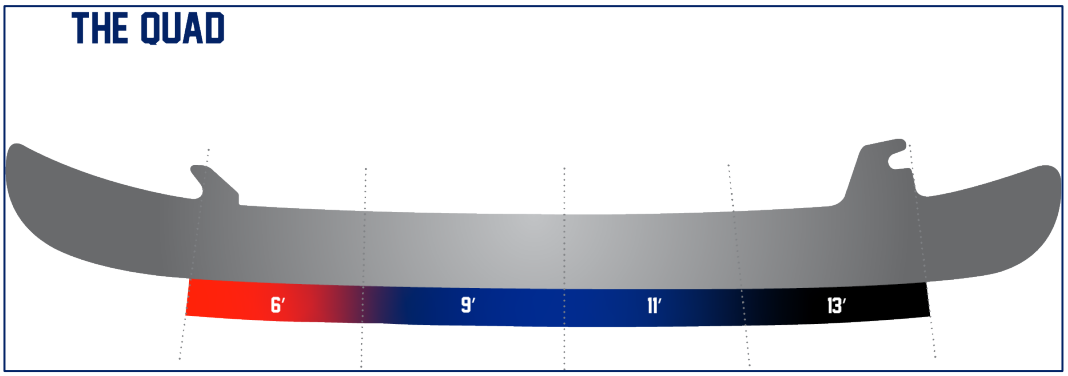
DUOS – Combining two radius curves, the duos are some of the earliest performance profiles. And they are popular with some top players. With a shorter radius curve in the front and a longer curve in the heel, the duos have a good balance of agility and stability. Some players find the transition from toe to heel to be a bit abrupt.



TRIPLES – With three radius curves, the triples are more rockered at the front, progressing to flatter curves at the back. Transitions are smoother than the duos. They are fast, powerful, and solid, providing a good balance of agility and stability. *Our Triples are similar to the Prosharp Zuperior*.

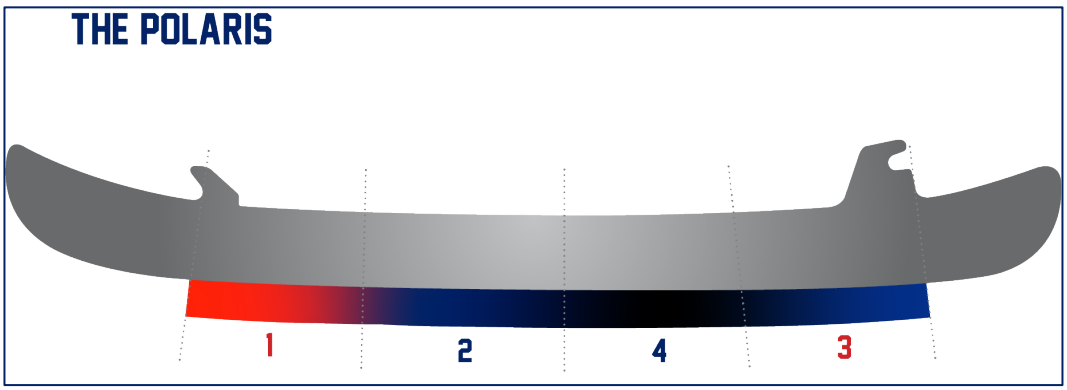


QUADS – The quads have four different radius curves, with a more gradual transition between curves than the duos and triples, and provide an excellent balance of speed, power, agility, and stability. *Our Quads are very similar to the Prosharp Quads.*



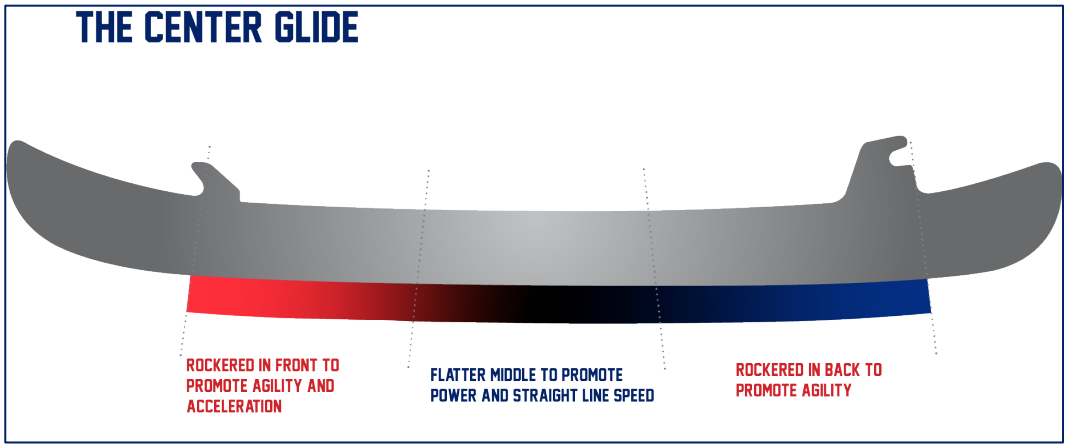
POLARIS – Named to acknowledge the Northern roots of its Finnish creator, Petri Hirvelä, the Polaris is the evolution of the Quad style profile. Polaris offers the exceptional power and stability associated with traditional quads while adding unmatched agility with seamless transition zones. Compared to traditional quads, the Polaris is significantly lighter in the heel which produces the extra agility.

Given the extreme popularity of the Polaris in the NHL, AHL, CHL, NCAA as well as the amateur game, Elite has expanded the Polaris family. Polaris 1 offers a lighter feel while the Polaris 3 boasts an even sturdier and powerful skating platform. The original Polaris sits in the middle. We are now calling it the Polaris 2.

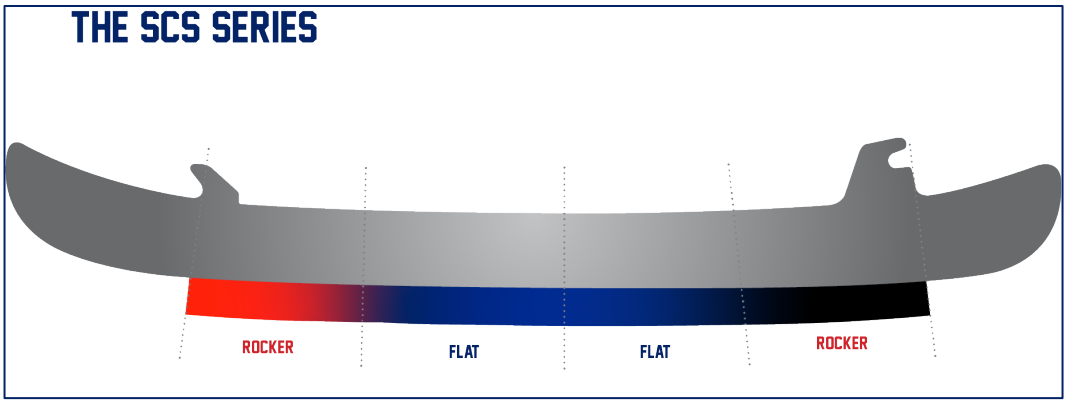


CENTER GLIDE PROFILES

The Center Glide profiles flatten an area under the middle of the blade to provide more contact with the ice surface, while the toe and heel sections are comparatively more rockered. The balance point is in the middle of the blade. The traditional CAG-ONE profiles fit into this category. Elite's SCS series is our most popular and high performing profile in the Center Glide family.

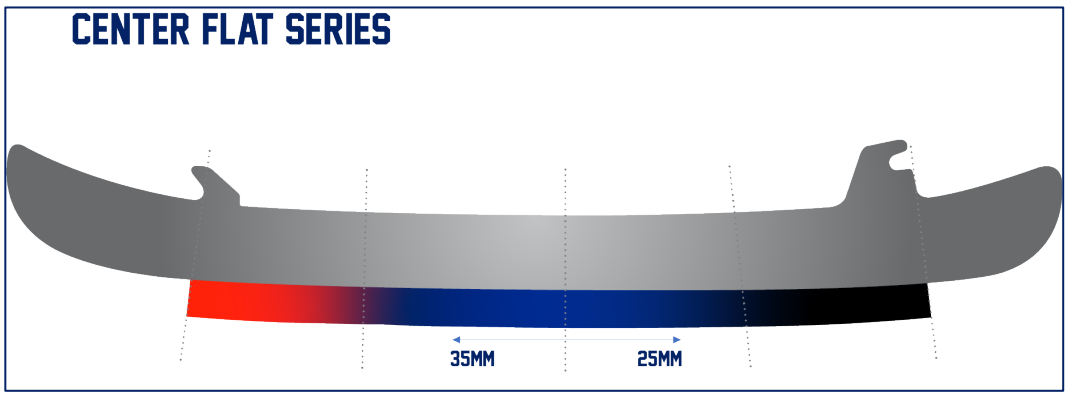


SCS SERIES – A proprietary family of profiles, with a sequence of flatter radius curves under the middle of the foot, and comparatively rockered toe and heel sections. The effect is a very powerful and smooth-skating profile, which provides high top-end speed and powerful striding turns while preserving agility and explosiveness. The ultimate blend of agility, power, and speed, the SCS is very popular with pro players across North America. In 2026 Elite expanded the SCS family to include the SCS Hybrid, which combines the agility of the SCS 1 with the stability of the SCS 2.



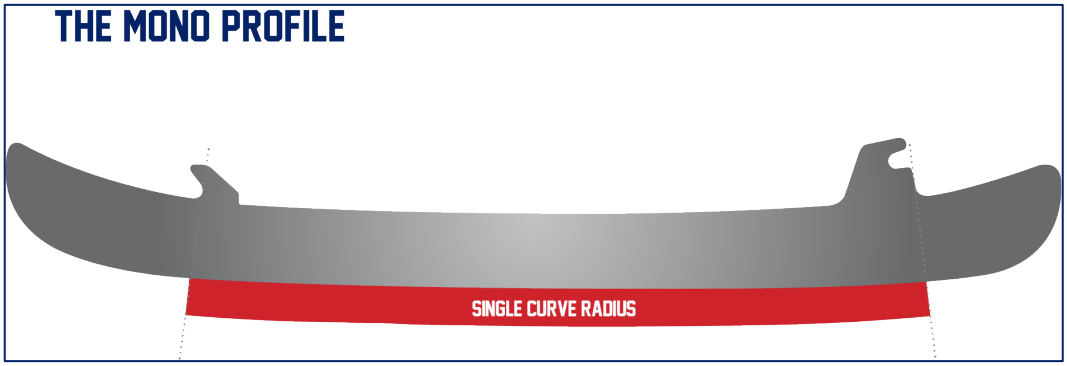
CENTER FLAT SERIES – The Center Flats are Elite's version of the CAG profiles, which have an actual flat section at or near the middle of a 10' mono blade. The flat section adds speed and stability but with a loss of agility, especially in the longer lengths. As well, the transitions onto and off of the flat section are not smooth in the longer lengths.

The SCS is a much higher performing Center Flat design. If you have players that have been skating on a CAG, we highly recommend they try the SCS series.



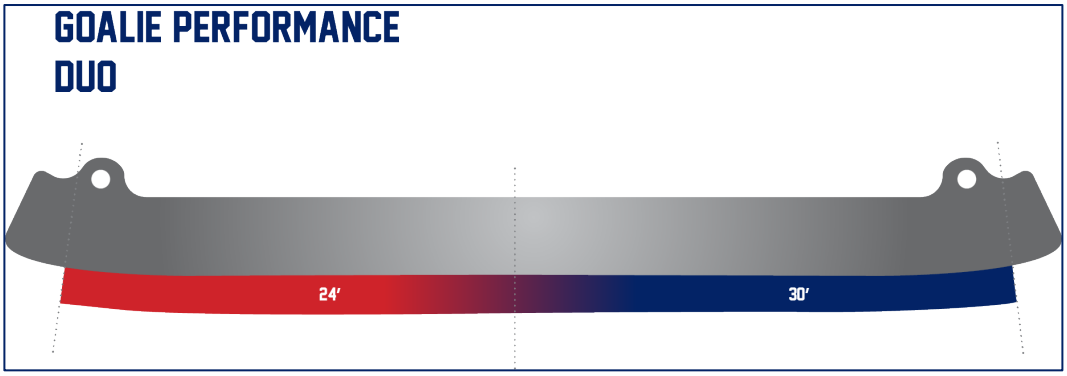
MONO PROFILES

MONOS – We recommend our performance profile combinations but understand that some players are more comfortable with a stock blade. The monos will feel familiar, but with no performance gains in agility, power, speed, or stability.

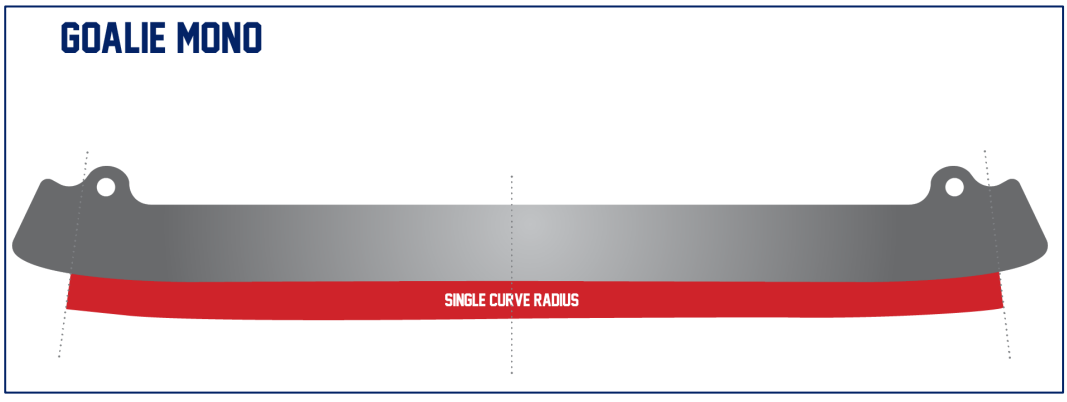


GOALIE PROFILES

GOALIE DUOS – The goalie duos have a shorter radius curve in the front to add more agility in the front with same stability in the back. These profiles preserve stability, but offer a slightly more aggressive pitch forward, which facilitates quicker lateral movement and allows them to regain their feet more quickly.



GOALIE MONOS – These are a standard stock goalie blade. Very short release zone at each end.



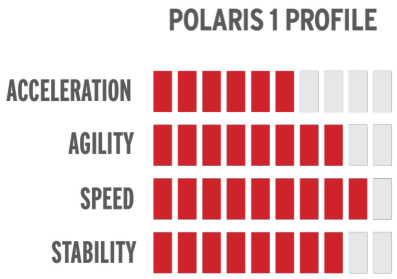
MOST POPULAR ELITE PROFILES

HEEL GLIDES

POLARIS 1

Large, Standard

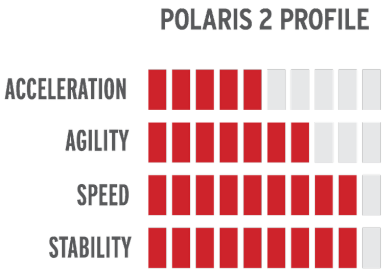
The Polaris 1 is an offspring of the original Polaris. It has the same playing attributes, but a lighter feel. Trades off a tiny bit of stability for a little more agility.



POLARIS 2 (Original)

Large, Standard, Junior

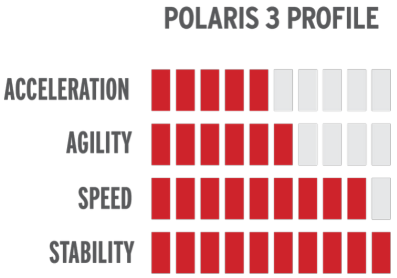
The Original Polaris, this profile offers agility with exceptional power and stability, smooth transition zones and a slight feeling of forward pitch. The Polaris feels significantly lighter in the heel than traditional Quads, which provides extra agility. Since its introduction a couple of years ago the Polaris has become a fast favourite among pro players.



POLARIS 3

Large, Standard

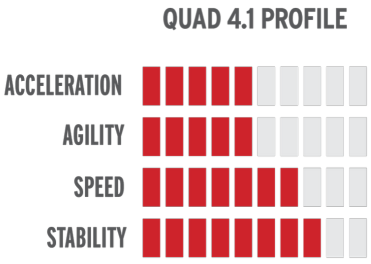
Another offspring of the original Polaris, but a little more solid feeling. Trades off a little agility for maximum power and stability. Well suited to larger ice surfaces and players who favour wide arcs and powerful strides.



EL4.1 QUAD

(6'-9'-11'-13') Large, Standard
(5'-8'-10'-12') Junior

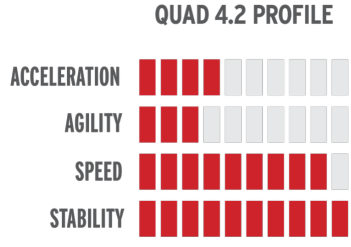
Fast, powerful, solid. Smooth transitions. Slight forward pitch feel. The lightest feel of the quads. (*Similar to the Prosharp Quad Zero.)*



EL4.2 QUAD

(7'-10'-13'-16') Large, Standard

A little less agile feeling than the 4.1, with good balance. A good mix of power and agility. Extremely solid, stable feeling profile. (*Similar to the Prosharp Quad 2*)



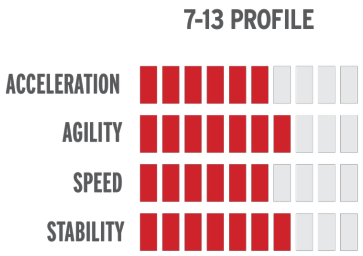
EL3.1 TRIPLE

(6'-12'-16') Large, Standard
(5'-10'-13') Junior

Light, agile toe, with a very slight forward pitch feel. Flatter heel provides good stability. Good mix of agility, power, and stability. (*Similar to the Prosharp Zuperior*)

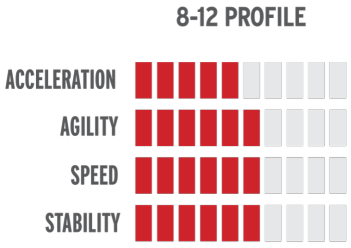
7′-13′ DUO

Great all-around profile, strong glide, some forward pitch feel. Some find the transition from toe to heel to be a bit abrupt.



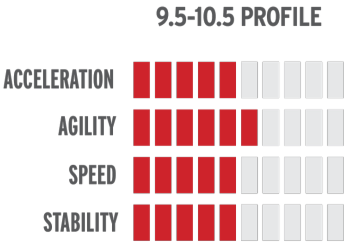
8′-12′ DUO

Similar to 7-13, with slightly less forward pitch feel.



9.5′-10.5′ DUO

This is close to a stock blade. Decent balance of agility and stability with a light feel.

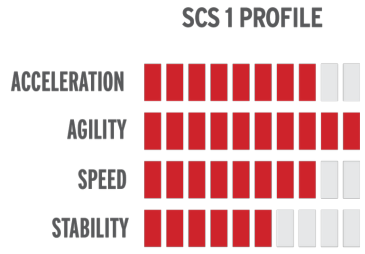


CENTER GLIDES

SCS-1

Large, Standard, Junior

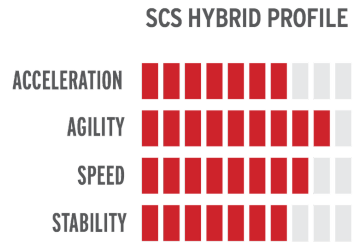
Four radius curves, flattest in the center of the blade. Very powerful and smooth-skating profile, with high top-end speed and powerful turns while preserving agility and explosiveness. This is the most agile of the SCS profiles, with the most rockered heel and toe sections.



SCS HYBRID

Large, Standard, Junior

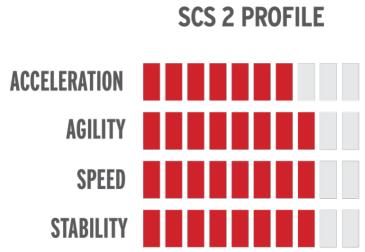
The newest member of the SCS family, the Hybrid bridges the stability of the SCS-2 with the agility of the SCS-1. With the same flatter curves in the center, the Hybrid combines the toe of the SCS-2 with the heel of the SCS-1.



SCS-2

Large, Standard

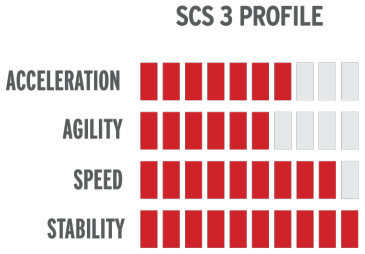
Similar to the SCS-1 but subtly more stable. It has the same mid-foot flatter-radius curves as the SCS-1(for same speed and glide), but with slightly less rockered toe (for fuller stride extension) and heel (for greater power and stability).



SCS-3

Large, Standard

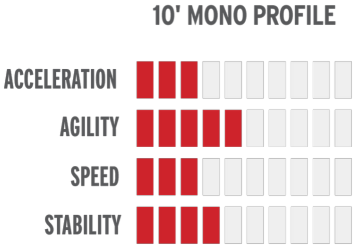
Slightly flatter mid-foot radius curves than the SCS1 and 2, and even less rockered heel and toe making for an extremely stable and powerful profile with slightly less agility.



PLAYER MONOS

10' MONO

Stock, out of the box blade. Decent basic blade with some agility/stability, but no performance gains in agility, power, speed, or stability.



GOALIE BLADES

26'-30' DUO
Maintains strong stability and control, with agile lateral and up and down movement.

30' MONO
Standard stock goalie blade. Short release zone at each end.

28' MONO
Slightly more rockered feel than the 30.

ALL ELITE E-P3 PROFILES

HEEL GLIDES

DUOS
7-12
7-13
7-14
8-12
8-13
8-14
9.5-10.5
10-11
10.5-11.5

TRIPLES
EL3.1 (6-12-16) *Large, Standard*
EL3.1 (5-10-13) *Junior*
EL3.2 (6-13-26)

QUADS
EL4.1 (6-9-11-13) *Large, Standard*
EL4.1 (5-8-10-12) *Junior*
EL4.2 (7-10-13-16) *Large, Standard*
EL4.3 (6-9-12-15)
EL4.4 (6-9-11-26)
EL4.5 (8-10-12-14)
Polaris 1 *Large, Standard*
Polaris 2 *Large, Standard, Junior*
Polaris 3 *Large, Standard*

CENTER GLIDES

SCS SERIES
SCS 1 *Large, Standard, Junior*
SCS HYBRID *Large, Standard, Junior*
SCS 2 *Large, Standard*
SCS 3 *Large, Standard*

CENTER FLATS
40 mm *(Neutral, F1, F2)*
50 mm *(Neutral, F1, F2)*
60 mm *(Neutral, F1, F2)*
70 mm *(Neutral, F1, F2)*
80 mm *(Neutral, F1, F2)*

GOALIE PROFILES

DUOS
22-30
24-30
26-30
28-30
24-28

MONOS
28
29
30

MONOS

PLAYER MONOS
9
10
11
12
13
14

If you don't see the profile you're looking for, ask us. We probably have it.
All templates come with neutral and three forward pitched orientations (integrated in E-P3): 1/64", 1/32" and 3/64".
Blade size: Large = 272 and above. Standard = 254-272. Junior = 246 and below. Custom templates available on request. All Prosharp and CAG profiles available on request. Except where otherwise indicated, numbers refer to profile radius in feet.