



SMARTER SKILLS BETTER HORSES

WARRIOR ICE

Improving the natural performance of the Icelandic horse

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THE FOLLOWING ICONS ARE USED IN OUR CATALOG:

Horseshoe front

Clip options front



Unclipped

Toe clip

Side clip 1-2

Side clip 2-3

Horseshoe hind

Clip options hind



Unclipped

Toe clip

Side clip

Heel ends

Sole relief

Concave inside

Breakover



wider heel ends

rolled toe

Science

Coarseness

Quantity per box



Twenty

Disclaimer

The shoeing tips in this booklet are meant to give ideas to farriers shoeing Icelandic horses. They do not represent fixed guidelines. Therefore, C.V. Werkman disclaims any liability for potential injuries, damage, costs or other consequences, caused by application of the described ideas or use of any Werkman horseshoe.

WARRIOR ICE

The Werkman Warrior ICE is developed especially for Icelandic horses in cooperation with dedicated farriers focused on Icelandic horses. Due to its heritage and environment the Icelandic horse is a unique breed that needs a unique shoe to reach it's natural gait qualities and abilities.

The reasons why we developed the Warrior ICE are as follows:

- The shoe is built according to the results of a study by Siggí Torfi Sigurdsson about the natural shape of Icelandic horse's hooves;
- Built to help to develop and keep the natural foot shape of Icelandic horses
- Fitting perfectly to the typical foot and coffin bone shape of the Icelandic Horse and therefore enhances the optimal "Natural Performance"
- Perfectly matching official FEIF regulations for breeding shows and sport competitions

Info "Natural Shape":

This concept stands for mirroring the solar shape of the coffin bone with the horseshoe. By seeing the horseshoe as a proportional extension of the coffin bone the farrier can help to support the bony column in an optimal way. Furthermore the hoof can keep or develop its most natural shape. For more information on shoeing to the "true shape of the hoof" see Robert Pinkney's Sound Shoeing Protocol.

(www.werkmanhoofcare.com/en/academy).

The video contains general shoeing ideas about "the true shape of the foot". For further information about identifying the position and shape of the coffin bone within the hoof see Scott Lampert's "Proportional Balance Protocol".



ICELANDIC HORSE

The Icelandic horse was brought to Iceland by Viking Age Scandinavians starting around 860 AD. In 982 AD the Icelandic Althing (parliament) passed laws to prohibit the import of horses to Iceland. From that age the Icelandic horses were bred relatively pure and isolated. This led to a horsebreed that is unparalleled over the world. From beginning on, the Icelandic horse was selected by nature and mankind through survival of the fittest.

Nowadays the Icelandic horse is able to perform top level sport without any loss of his original characteristics. Around the world the Icelandic horse is known not only for his special temperament but as well for his ability to perform more gaits than other horses. Icelandic horses are not only able to walk, trot and gallop, but are as well able to perform the lateralized gaits Tölt and Pace.

Recent Swedish research from the SLU of Uppsala on Icelandic Horses has discovered that there is genetic pre-disposition that influences the development of the different gaits.

For further information see:

www.nature.com/articles/nature11399



Sigurður Torfi Sigurðsson

Farrier Teacher and Icelandic Horse Breeder / Trainer

Iceland

"Hooves of the Icelandic horses -comparing hooves of riding horses and horses in breeding shows"

Goal

Priority was to establish a database to describe the natural size and shape of Icelandic horses hooves. These results were compared to the hooves of horses in breeding shows to document the effect of shoeing and trimming on the resulting scores given in breeding shows.

Methods

For the research the front and hind hooves of 89 randomly chosen healthy Icelandic horses from the age of 3 years till 21 years old were measured. These measurements included:

- Dorsal hoof wall length
- Heel length
- Dorsal wall angle
- Heel angle
- Hoof width
- Hoof length (length of the frog plus distance tip of the frog to the toe)

The horses were trimmed to the same standardized protocol and measured after trimming. The results have been compared to a group of 145 horses shown at breeding shows. These horses were examined in the same way as the first group.

Results

The results of the research show that healthy Icelandic horses, which have not been manipulated by excessive trimming or shoeing, develop a relatively uniform natural foot pattern. The front and hind feet show a relative similar oval shape. Their feet occurred to be fully grown from the age of 6 years.

Shoe development

These findings were used in developing the Warrior ICE which is supporting the natural shape of Icelandic horse's feet, because of this the Warrior ICE is a proportional extension of the typical Icelandic hoof. Respecting this shape is a very important part of developing and maintaining healthy hooves. Only with healthy feet the Icelandic Horse can reach its optimal "Natural Performance".



FEIF

International Federation of Icelandic Horse Associations

FEIF rules

The shoeing rules for sport and breeding events are included in the General Rules and Regulations of FEIF: www.feif.org/Service/Documents/General.aspx (chapter G 8.3, page 66 and 67)

Sport disciplines

If horses are shod all four feet should be shod. The only shoes allowed are those that are made for the purpose of serving as a shoe on a horse. Any shoe should have an opening at the hind side. All four shoes have to be made of the same material. The material used must not exceed the specific weight of standard iron. The shoe may have a maximum thickness of 10.0 mm and width of 23.0 mm (wear and tear included), and must be of an even shape.

Breeding classes

The maximum thickness of the horseshoes is 8mm and maximum width 23mm and the same width has to be used on the front and hind shoes. The material of all four shoes should be the same and not be heavier than the specific mass of normal horseshoe iron. The shoes should be of a proper size that fit the hooves and no more than 2mm difference is allowed between the thickness of front and hind shoes.

The judges' decision about the acceptance of any shoe at a specific event is final for that specific event.

Further links:

www.feiffengur.com/documents/shoeing%20controls.pdf

How to measure the length of a hoof

www.feiffengur.com/documents/hooflength.pdf



WARRIOR ICE

6 mm: 4x0 – 0 / 8 mm: 4x0 – 1 / 10 mm: 3x0 – 1



- Warrior ICE shoes are developed according to the results of a study by Sigurður Torfi Sigurðsson, Master farrier, about Icelandic horse's feet to provide optimum shape and dimensions.
- This “true shape” helps to preserve and develop the natural healthy hoof of Icelandic horses.
- These “healthy hoofs” help the Icelandic horse to reach its optimal “Natural performance”.
- The Warrior ICE is perfectly matching the official FEIF regulations for breeding shows and sport competitions and made of maximum material without exceeding the FEIF regulations.
- The Warrior ICE is available in front toe clip and hind side clip.





WARRIOR ICE

Size	Clip options		mm		Profile		
			Height	Width	22x6	22x8	22x10
4x0	Side clip	Hind	112	109	E	E	
	Toe clip	Front	120	117		E	E
3x0	Side clip	Hind	118	115	E	E	
	Toe clip	Front	127	124		E	E
2x0	Side clip	Hind	125	122	E	E	
	Toe clip	Front	133	130		E	E
0	Side clip	Hind	131	128	E	E	
	Toe clip	Front	140	137		E	E
1	Side clip	Hind	138	134	E		

RYDER ORIGINAL

8 mm: 4x0 – 3 / 10mm: 2x0 – 3



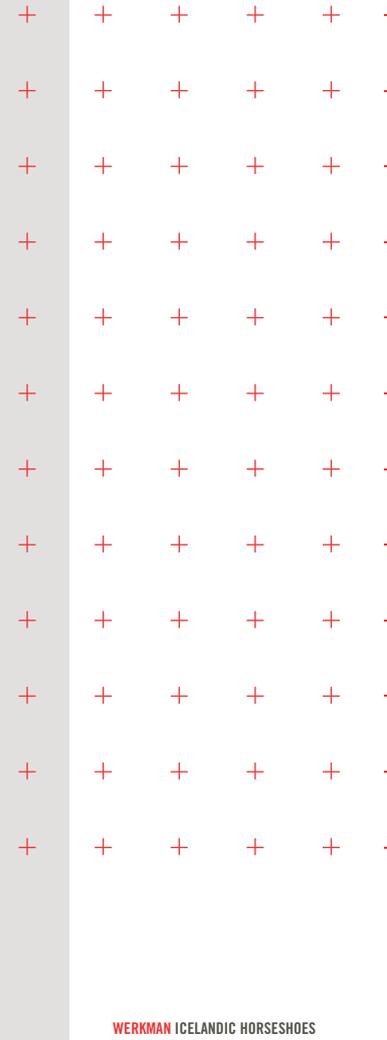
Next to the Warrior ICE there are other Werkman Hoofcare models that are suitable for Icelandic horses;

- The Ryder Original line consists of front and hind shoes with toe clip and side clips between the 2nd and 3rd nail hole. This horseshoe is also available without clips.
- The Ryder Original is known worldwide for having a classic and proven easy shape pattern.
- The Ryder 8 mm is feather edged on the inside. This provides more traction and saves on weight.
- The Ryder comes in a wide range of sizes and dimensions



RYDER ORIGINAL 8MM / 10MM

Size	Clip options		mm		Profile				
			Height	Width	17x8	19x8	22x8	19x10	22x10
4x0	Toe clip	Front	102	97	E				
	Toe clip	Hind	101	97	E				
3x0	Unclipped	Front	111	103	E				
	Toe clip	Front	111	103	E	E			
	Side clip 2-3	Hind	109	103	E	E			
	Toe clip	Hind	109	103	E				
2x0	Unclipped	Front	114	110		E			
	Toe clip	Front	114	110	E	E		E	
	Side clip 2-3	Hind	115	111		E		E	
	Toe clip	Hind	115	110	E	E			
0	Unclipped	Front	121	115		E			
	Toe clip	Front	121	115	E	E		E	
	Side clip 2-3	Front	121	115		E			
	Side clip 2-3	Hind	121	116		E		E	
	Toe clip	Hind	121	116	E	E			
1	Unclipped	Front	127	122	E	E			
	Toe clip	Front	127	122	E	E		E	
	Side clip 2-3	Front	127	122		E		E	
	Unclipped	Hind	127	122	E				
	Side clip 2-3	Hind	127	122		E		E	
	Toe clip	Hind	127	122	E	E			
2	Unclipped	Front	133	128		E			
	Toe clip	Front	133	128		E	E	E	
	Side clip 2-3	Front	133	128		E	E	E	
	Side clip 2-3	Hind	133	128		E	E	E	
	Toe clip	Hind	133	128		E			
3	Unclipped	Front	140	133		E	E		
	Toe clip	Front	140	133		E	E	E	E
	Side clip 2-3	Front	140	133		E	E		E
	Side clip 2-3	Hind	140	133		E	E	E	E
	Toe clip	Hind	140	133		E			



EUROSKILL

8 mm: 6x0 – 4 / 10 mm: 2x0 – 4



- The Euroskill line comprises front and hind horseshoes with and without clip, front toe clip, hind toe clip and side clip.
- Euroskill horseshoes have left and right models that are clearly distinct.
- The deeper-punched positioning of the nail holes of the Euroskill horseshoe makes it possible to shoe with more trimming.
- The entire Euroskill line comes with sole relief.



DISCIPLINES

SPORT AND BREEDING



SPORT DISCIPLINES

TÖLT

Slow

Fast

Variation of tölt tempi

Separate loose rein class

4-GAIT

Walk (medium speed)

Slow tölt

Speed tölt

Trot (slow to medium speed)

Gallop (slow to medium speed)

5-GAIT

Walk (medium speed)

Trot (slow to medium speed)

Gallop (slow to medium speed)

Tölt (slow to medium speed)

Pace (racing pace)

PACE RACE

Pacetest

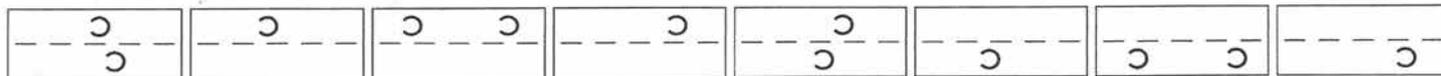
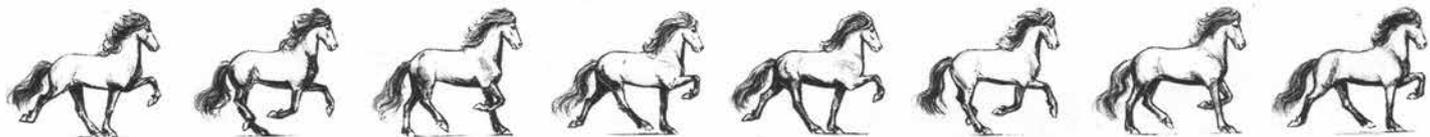
Pacerace (racing pace)

Speedpace (racing pace)

BREEDING DISCIPLINES

- Classes by age and gender
- Classes for four year old, five year old, six year old and seven years and older
- Tölt (slow and fast)
- Trot
- Pace
- Canter / Gallop (slow and fast)
- Walk

TÖLT



SIGURÐUR'S ADVISE ON SHOEING FOR TÖLT

	pace tendency in tölt				stable tölt	trot tendency in tölt	
	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm
Sport	8 silicon pad / 8	10 ring pad / 8	8 ring pad / 8	10 / 8	8 / 8	8 / 10	8 rolled toe / 10
	8 silicon pad / 6	10 ring pad / 6	8 ring pad / 6	10 / 6		6 / 8	6 rolled toe / 10
Breeding				8 / 6	8 / 8	6 / 8	6 rolled toe / 8

Tölt is a 4-beat gait and characterized by always having one or two legs on the ground with a variable speed.

Sigurður's advice

- Horses with good tölt quality don't need any specific shoeing;
- Typical standard shoeing is 8mm front and hind for general use, in sport- and breeding competition.

Tendency to lateralized-pace tendency

In general those horses benefit to have slightly heavier front shoes and lighter hind shoes to find a clear 4-gaited tölt.

Tendency to diagonalized-trot tendency

In general those horses benefit to have slightly lighter front shoes and heavier hind shoes to find a clear 4-gaited tölt.

For general riding horses the change of thickness in front and hind shoes is often enough help. For high performance sport horses that work a lot on hard grounds the rim pad or silicon inlay are often more functional.

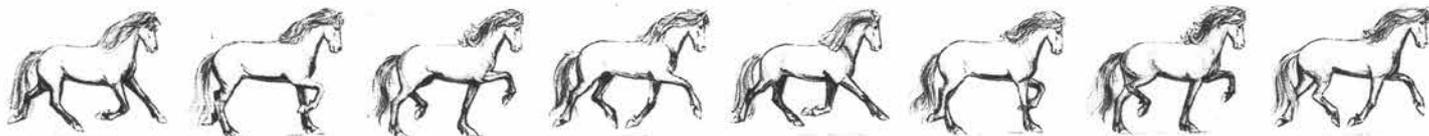
Warning

There are very strict FEIF regulations concerning shoeing, hoof length, use of pads and silicones. Make always sure that your application of the mentioned ideas is conform the FEIF regulations in the classes the horse is shown in. In general we recommend shoeing as simple and normal as possible choosing the least extreme modification and weight difference between shoes to help the horse stay sound.



Image source: FEIF, purcheval

TROT



SIGURÐUR'S ADVISE ON SHOEING FOR TROT

	tölt tendency in trot				stable trot
	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm
Sport	10 / 8	10 ring pad / 6	10 ring pad / 8	8 silicon pad / 8	8 / 8
	10 / 6		8 ring pad / 8	8 silicon pad / 6	
Breeding				8 / 6	8 / 8

The Trot is a diagonal 2-beat with suspension phase.

Sigurður's advice

- Horses with good trot quality don't need any specific shoeing
- Typical standard shoeing is 8mm front and hind for general use, in sport- and breeding competitions.

Tendency to lateralize gait-Tölt

In general those horses benefit to have slightly heavier front shoes and lighter hind shoes to find a clear 2-beat trot.



PACE



SIGURÐUR'S ADVISE ON SHOEING FOR PACE

	tölt tendency in pace			stable pace	gallop tendency in pace			
	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm	front / hind in mm
Sport	8 / 10	8 rolled toe / 10	8 rolled toe / 8	8 / 8	10 / 8	10 ring pad / 8	8 silicon pad / 8	8 silicon pad / 6
					10 / 6	10 ring pad / 6	8 ring pad / 8	
Breeding			8 rolled toe / 8	8 / 8				8 / 6

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+ + + + + + + + + + + + + + + + + + +

| | | | | | | | | | | | | | | | | | |

The pace is a lateral 2-beat with a suspension phase.
The legs of the same side are moved simultaneously.

Sigurður's advice

- Horses with good pace quality don't need any specific shoeing;
- Typical standard shoeing is 8mm front and hind for general use, in sport- and breeding competition.

Tendency to 4-beat-tendency to tölt

In general those horses benefit to have slightly lighter front shoes and heavier hind shoes to find a clear 2 beat pace.

Tendency to gallop or disunited gallop

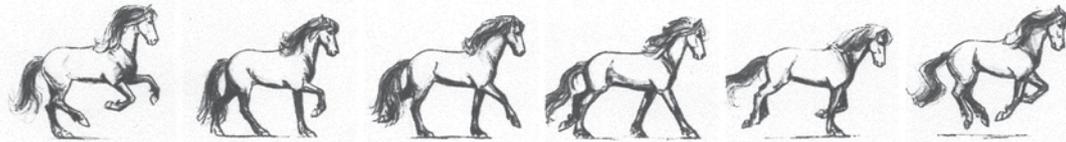
In general those horses benefit to have slightly heavier front shoes and lighter hind shoes to find a clear 2 beat pace.



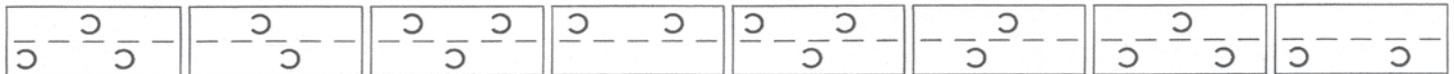
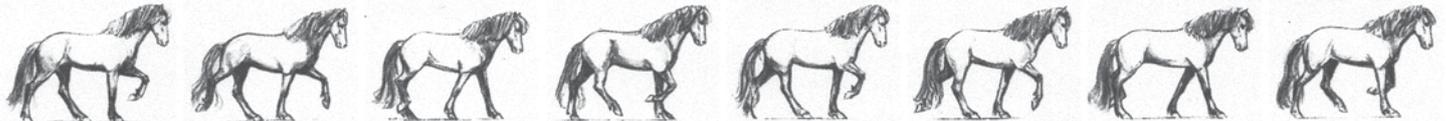
Image source: FEIF, purcheval

GALLOP AND WALK

GALLOP (RIGHT)



WALK





Gallop and Walk are natural gaits that have to be performed in the 4-gait and 5-gait class of sport horses and the classes for breeding horses.

The gallop and walk are normally not influenced by any kind of special shoeing but require good standard shoeing to be performed correct.

Sigurður's advice

Standard shoeing

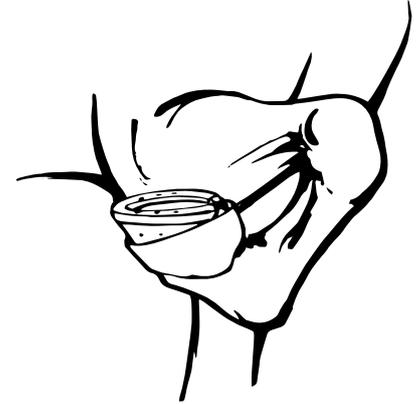
- Front toe clip and hind side clip 22x8;
- Using classical shoeing theories such as alignment theory, medial-lateral balance, symmetry of hoof capsule as general guidance.



Image source: FEIF, purcheval



ELBOW HITTING



Occurs mainly in tölt and pace

Sigurður's advice

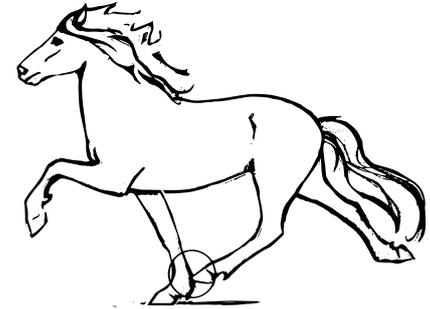
- Light front shoes, short front feet
- Elbow protectors while training
- Widening lateral aspect, narrowing medial aspect with tight fit/grinded edges of front shoes (this will make the limb move more laterally)

Warning

Do not compromise good and healthy balance when applying this. Respect FEIF regulations when shoeing for competitions.



CROSSFIRING



Hitting/reaching front leg with diagonal hind leg
Occurs mainly in tölt and pace

Sigurður's advice

Front hooves:

- Keep front feet short
- Rolled toe
- Light shoe if possible

Hind hooves:

- Take care of lateral-medial balance
- Hoof should never be higher on the medial side
- Short toe in hind (set back shoe or square toe, medially square toe)
- Lateral wide, medial narrow and tight fit, grinded edges
- Lateral trailer (not allowed during competitions at the moment)

Warning

Do not compromise good and healthy balance when applying this. Respect FEIF regulations when shoeing for competitions.



FORGING

Hitting front leg/hoof with unilateral hind leg
Occurs mainly in tölt and pace

Sigurður's advice

Front hooves:

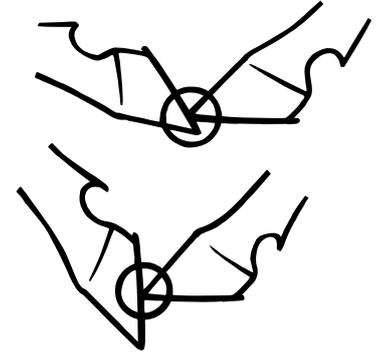
- Short and light with rolled toe or square toe

Hind hooves:

- Short toe with square toe
- Lateral support, medial narrow and tight fit with grinded edges
- Lateral trailer (not allowed during competitions at the moment)

Warning

Do not compromise good and healthy balance when applying this. Respect FEIF regulations when shoeing for competitions.



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