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Cordes pour harpe



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Already known in Egypt 3.000 years B.C. the bow-shaped harp had from 3 to 7 strings.

The pedal harp made its appearance at the end of the 17th century.

In France, it took its letters of nobility and became in vogue thanks to Marie-Antoinette and Madam de Genlis. Around 1810 Sébastien Erard brought the ultimate improvements that are always in use and conducted to the instrument that we know today.

It is between these dates, during the Age of Enlightenment, that the Italian Master SAVARESSE, who settled in Lyon, manufactured his first hand rectified gut strings in 1770. A collaboration was established quite naturally between the master, whose reputation was growing day after day, and the harpists and harp makers of that time. There came the great discoveries that opened the ways towards the harp of today.

From that moment the harp strings, which at the beginning were made of hand-rectified gut, evolved progressively with technical progress.

Well traced lines and a Master word : INNOVATION

Much progress arose from the collaboration with the musicians he associated to his research aimed at meeting their requirements with a care of perfection. And to ensure the success of their essential innovations, the best harp makers of the 18th century and the beginning of the 19th century approached SAVAREZ and sealed links that have been going on throughout the 20th century till nowadays. As a result, the successive revolutions in string making and harp making knew the following main stages.

© constant improvement of the gut strings, from the string of Master SAVARESSE in 1770 to the current rectified strings

©the development of nylons in the 1950's

© the introduction of a new material exclusive to SAVAREZ: the Alliance composite, <u>A WORLD EXCLUSIVENESS</u>

©the manufacture of the wound bass strings



Ø GUT STRINGS

If the strings that we sell today are mainly made out of synthetic material, the gut strings symbolically embody the perpetuation of a two-century know-how and the combination of tradition and innovation.

All the gut strings are rectified, either they are oiled or varnished. Their gauge is thus very precise and the string is very homogeneous (with perfect geometry). It ensures the accuracy of the note and guarantees a clean and direct sound with much power and projection.

The diameters are controlled with a high degree of occuracy. We offer a large choice that makes it possible for each note to choose the string diameter, that is tension, which best suits the instrument.

Each diameter exists in natural color, and also in red or blue, which makes the choice of the diameters for the C and F strings easier.

2 lengths: - strings in length of 1,20 metre for diameters 38 to 150/loo mm. - strings in length of 1,50 metre for diameters 160 to 225/loo mm.

It should be noted that the tension used on the harps evolved during centuries according to an ascending curve. Thus, the tensions of today would not be appropriate for the harps of the 19th century.

To consult the references and diameters of the strings see the chart of page 12.

& DEVELOPMENT OF NYLONS : THE FIRST REVOLUTION

During centuries, gut was the most used material. However, the harpists saw their treble strings break easily, much more quickly than the strings in the lower octaves. And during the concerts, in rooms heated by the stage lights and a public whose exhalations increased the humidity rate in the ambient air, the strings suffered great variations that affected the sound. Moreover the gut strings were rather expensive because of high manufacturing costs.

In the late 1930's, a small revolution shaked the industry world: Nylon made its appearance and showed its applications everywhere, in all the fields of the everyday life. After the Second World War SAVAREZ was the first manufacturer to apply this material to the world of the harp. Thanks to well-mastered technologies relating to synthetic materials, he found the way to adapt nylon for the use as musical strings, and by the way harp strings, by acting on its molecular structures.

• an adapted chemical process: a SAVAREZ advantage

By modifying the links between the nylon molecules SAVAREZ controlled the string elongation and offered a better sound to the musicians.

Thanks to the control of the elasticity and rigidity of the nylon the harpists were offered the desired flexibility and resistance under fingers.

<u>OMATERIALS</u>

• <u>Gauge control and rectification process</u>: → <u>a better sound and increased playing comfort</u>

SAVAREZ produced the useful string diameters with a perfect geometrical regularity. The successive developments of increasingly sophisticated technologies of rectification testify to this search for perfection:

- manual rectification with sandpaper,
- then device with mobile plates moving along the string in rotation,
- and today "centerless" machines and laser control of the diameter.

The rectification process enables to offer an extended choice of diameters to the harpist. That choice was formerly limited by the difficulties of obtaining precise gauges.

The perfectly regular geometrical shape gives the string a perfect accuracy, a pure and clean sound.

The qualities of SAVAREZ nylon strings are such as the harps can be fitted with nylon strings from 1st to 2nd octave, and then in gut and metal wound strings.

Length and colours: The strings are available in 1 meter and still there is a large choice of diameters in natural colour and also in Red and Blue, thus offering the possibility to choose the best suited diameter for the C and F strings.

To consult the references, diameters and colors of the strings, see the chart of page 13.

& <u>INTRODUCTION OF A NEW MATERIAL EXCLUSIVE TO SAVAREZ</u> : <u>THE ALLIANCE COMPOSITE</u> : <u>A SECOND REVOLUTION</u>

This new material was developed by SAVAREZ a little more than ten years ago. Seven years of research enabled us to discover a molecule that has the same density as gut without the inconvenience of gut fragility. This discovery caused a small seism in the field of string making. While acting on the molecular links and the rate of crystallinity SAVAREZ thus could obtain an elongation and elasticity identical to those of gut.

• <u>A difficult development</u>:

In its usual form, the fibre presents two inconveniences for the use as musical strings:

- The original fibre does not have sufficient tensile strength to support tensions as high as 35 kilograms for the thicker harp string diameters.
- The original fibre presents the risk called defibrillation. That means that once put under tension the string can become withish, no more transpartent, or have some small hairs appearing and can break after some hours.



Thanks to its experience and competences, the development and implementation of delicate and sophisticated technologies, SAVAREZ solved all the technological problems inherent to the nature of the material, working through the complex processes necessary to give the Alliance fibres the characteristics desired in top quality strings. It made it possible to produce strings that not only resist the tensions required by the harp withouth the risk of string breakage and defibrillation, but present perfect geometrical qualities and characteristics of elasticity and elongation identical to those of gut.

Unprecedented advantages:

Indeed the ALLIANCE strings combine the advantages of gut and nylon withouth the inconveniences of them.

First of all, this material offers a great liberty and new possibilities because of the control of the following parameters: density, elasticity and stiffness.

Moreover, the Alliance strings present all the qualities that are offered by synthetic strings: tuning steadiness, solidity, and long life.

Lastly, because they have the same elasticity as gut and a much higher density than nylon, the Alliance strings feature all the sounding qualities that are found in gut strings.

For a given tension, the Alliance string has a thinner diameter than a nylon string. It makes the vibration easier with as a result an increased projection and great clarity of sound.

Outstanding qualities

The Alliance strings have specific qualities of their own:

- a total insensitivity to the variations of humidity and temperature,
- an increased steadiness,
- a very competitive price on account of a longer life.

Lastly, the Alliance strings produce very few internal frictions with as a result an increased quality of sound and longer sustain. This advantage is all the more sensitive as the diameter is thicker.

This is why SAVAREZ developed an exclusive technology to produce thicker string diameters: winding of a monofilament or multifilament core, then rectification by wiredrawing, and coating or coating / rectification. SAVAREZ is the only manufacturer using such a technology that makes it possible to produce strings in thicker diameters, which have a very clear sound with much projection and power.

The ALLIANCE strings offer an additional choice to the harpist who can either put on a complete setting of Alliance strings or mix Alliance strings with Nylon or gut strings.

- Different lengths: 1,00m 1,50m and 2,00 m
- A large choice of diameters in natural colour and in Red and Black.

To consult the references and diameters of the strings see the chart of page 14.

<u>OMATERIALS</u>

& <u>STRINGS WOUND ON STEEL</u>

1 - Concert Harp

The metal wound strings for concert harp are available in two tensions: Medium and Forte.

The strings in Medium tension have been existing for a long time. They suit the old harps and are used in particular for the interpretation of early music or classic music.

The strings in Forte tension were developed thereafter in response to an evolution of the contemporary tastes and a search for a richer and brilliant sound and more power. They perfectly suit to the modern harps.

Important improvements were made to the strings. Their composition has been redesigned and they now benefit from the use of new winding technologies that made it possible to produce strings that have a very homogeneous tone.

These strings fit particularly well with the Alliance strings or gut strings to give a particularly well-balanced sound.

2 tensions:	- Medium:	form G 5 th octave n°34 to C 7 th octave n°45
	- Forte:	from E 5 th octave n°29 to C 7 th octave n°45

To consult the references of the strings see the chart of page 15.

4 - Small Harps

The metal wound strings for small harps have been especially designed to fit the different existing models of small harps.

- 2 length series: <u>1,20m - 1,35m</u> and <u>1,35m - 1,40m</u>

- from C 4th octave n°27 to A 6th octave n° 36

To consult the references of the strings see the chart of page 15.

© <u>EXAMPLES OF SETTINGS</u>

OLIST OF DIAMETERS AND REFERENCES

For each type of SAVAREZ strings we give hereafter:

some examples of settings :

٠	Varnished Gut strings - 3 examples for concert harp	Page 7
٠	Rectified Nylon strings - 3 examples for concert harp	Page 8
٠	Rectified Nylon strings - 3 examples for small harp	Page 9
٠	ALLIANCE strings - 3 examples for concert harp	Page 10
٠	ALLIANCE strings- 3 examples for small harps	Page 11

- the list of all the available string diameters and references :

٠	Rectified Oiled Gut and Rectified Varnished Gut strings	Page 12
٠	Rectified Nylon strings	Page 13
٠	ALLIANCE strings	Page 14
٠	Strings wound on steel	Page 15

The examples hereafter are given as an indication.

- On two different models of harps that have identical vibrating lengths, it can be necessary to use different tensions and thus different diameters.

- Also, for the same tension on two different instruments, it can be necessary to use a different string diameter.

- It is possible to mix the strings and for example to use Nylon strings for the 2 first octaves and Alliance strings or gut strings for the following octaves.

For each example we give the note and position on the instrument, the reference of the string and the string diameter in hundredths of millimetres and inches.

If for a given string reference or diameter, you observe not enough tension or on the contrary an excess of rigidity that blocks the string, by referring to the list of the references and diameters, you can choose the thinner diameter just below for less tension and more flexibility or the thicker diameter just above for more tension and more rigidity.

VARNISHED GUT STRINGS - 3 examples of settings for Concert Harp

			INFERI	or diame	ETER	STAND	ARD DIAM	ETER	SUPER	OR DIAM	ETER
	NOTE	POSITION		DIAN	IETER		DIAM	ETER		DIAM	ETER
			REF.	%mm	inch	REF.	%mm	inch	REF.	%mm	inch
OCTAVE 0	LA-A	000	HPBV40	40	.015	HPBV44	44	.017	HPBV48	48	.019
	SOL-G	00	HPBV44	44	.017	HPBV48	48	.019	HPBV51	51	.020
	FA-F	0	HPBV48B	48	.019	HPBV51B	51	.020	HPBV53B	53	.021
OCTAVE 1	MI-E	1	HPBV51	51	.020	HPBV53	53	.021	HPBV55	55	.022
	RE-D	2	HPBV53	53	.021	HPBV55	55	.022	HPBV58	58	.023
	DO-C	3	HPBV55R	55	.022	HPBV58R	58	.023	HPBV61R	61	.024
	SI-B	4	HPBV58	58	.023	HPBV61	61	.024	HPBV63	63	.025
	LA-A	5	HPBV61	61	.024	HPBV63	63	.025	HPBV66	66	.026
	SOL-G	6	HPBV63	63	.025	HPBV66	66	.026	HPBV68	68	.027
	FA-F	7	HPBV66B	66	.026	HPBV68B	68	.027	HPBV71B	71	.028
OCTAVE 2	MI-E	8	HPBV68	68	.027	HPBV71	71	.028	HPBV74	74	.029
	RE-D	9	HPBV71	71	.028	HPBV74	74	.029	HPBV79	79	.031
	DO-C	10	HPBV74R	74	.029	HPBV79R	79	.031	HPBV81R	81	.032
	SI-B	11	HPBV79	79	.031	HPBV81	81	.032	HPBV84	84	.033
	LA-A	12	HPBV81	81	.032	HPBV84	84	.033	HPBV89	89	.035
	SOL-G	13	HPBV84	84	.033	HPBV89	89	.035	HPBV94	94	.037
	FA-F	14	HPBV89B	89	.035	HPBV94B	94	.037	HPBV97B	97	.038
OCTAVE 3	MI-E	15	HPBV94	94	.037	HPBV97	97	.038	HPBV99	99	.039
	RE-D	16	HPBV97	97	.038	HPBV99	99	.039	HPBV104	104	.041
	DO-C	17	HPBV99R	99	.039	HPBV104R	104	.041	HPBV109R	109	.043
	SI-B	18	HPBV104	104	.041	HPBV109	109	.043	HPBV114	114	.045
	LA-A	19	HPBV109	109	.042	HPBV114	114	.045	HPBV122	122	.048
	SOL-G	20	HPBV114	114	.045	HPBV122	122	.048	HPBV127	127	.050
	FA-F	21	HPBV122B	122	.048	HPBV127B	127	.050	HPBV132B	132	.052
OCTAVE 4	MI-E	22	HPBV127	127	.050	HPBV132	132	.052	HPBV137	137	.054
	RE-D	23	HPBV132	132	.052	HPBV137	137	.054	HPBV142	142	.056
	DO-C	24	HPBV137R	137	.054	HPBV142R	142	.056	HPBV150R	150	.060
	SI-B	25	HPBV142	142	.056	HPBV150	150	.059	HPBV160	160	.063
	LA-A	26	HPBV150	150	.059	HPBV160	160	.063	HPBV170	170	.067
	SOL-G	27	HPBV160	160	.063	HPBV170	170	.067	HPBV178	178	.070
	FA-F	28	HPBV170B	170	.067	HPBV178B	178	.070	HPBV185B	185	.073
OCTAVE 5	MI-E	29	HPBV178	178	.070	HPBV185	185	.073	HPBV193	193	.076
	RE-D	30	HPBV185	185	.073	HPBV193	193	.076	HPBV203	203	.080
	DO-C	31	HPBV193R	193	.076	HPBV203R	203	.080	HPBV213R	213	.084
	SI-B	32	HPBV203	203	.080	HPBV213	213	.084	HPBV225	225	.088
	LA-A	33	HPBV213	213	.084	HPBV225	225	.088			

All the strings are also available in rectified oiled gut (HPBH) except the varnished red and blue strings

		INFER	IOR DIAME	TER	STAND	ARD DIAM	ETER	SUP	ERIOR DIAME	TER
NOTE	POSITION		DIAM	IETER		DIAM	ETER	DIAME		ETER
		REF.	%mm	inch	REF.	%mm	inch	REF.	%mm	inch
OCTAVE 0										
SOL-G	00	HPN52	52	.020	HPN54	54	.021	HPN56	56	.022
FA-F	0	HPN54B	54	.021	HPN56B	56	.022	HPN58B	58	.023
OCTAVE 1				_			-			
MI-E	1	HPN56	56	.022	HPN58	58	.023	HPN60	60	.024
RE-D	2	HPN58	58	.023	HPN60	60	.024	HPN64	64	.025
DO-C	3	HPN60R	60	.024	HPN64R	64	.025	HPN66R	66	.026
SI-B	4	HPN64	64	.025	HPN66	66	.026	HPN68	68	.027
_A-A	5	HPN66	66	.026	HPN68	68	.027	HPN70	70	.027
SOL-G	6	HPN68	68	.027	HPN70	70	.027	HPN72	72	.028
FA-F	7	HPN72B	72	.028	HPN74B	74	.029	HPN77B	77	.030
OCTAVE 2										
MI-E	8	HPN74	74	.023	HPN77	77	.030	HPN80	80	.031
RE-D	9	HPN77	77	.030	HPN80	80	.031	HPN83	83	.033
DO-C	10	HPN80R	80	.031	HPN83R	83	.033	HPN86R	86	.034
SI-B	11	HPN83	83	.033	HPN86	86	.034	HPN89	89	.035
_A-A	12	HPN86	86	.034	HPN89	89	.035	HPN91	91	.036
SOL-G	13	HPN89	89	.035	HPN91	91	.036	HPN94	94	.037
FA-F	14	HPN91B	91	.036	HPN94B	94	.037	HPN97B	97	.038
OCTAVE 3			-							
MI-E	15	HPN94	94	.037	HPN97	97	.038	HPN100	100	.039
RE-D	16	HPN97	97	.038	HPN100	100	.039	HPN103	103	.040
D0-C	17	HPN100R	100	.039	HPN103R	103	.040	HPN107R	107	.042
SI-B	18	HPN103	103	.040	HPN107	107	.042			
_A-A	19	HPN107	107	.042						
SOL-G	20									
FA-F	21									

* Since nylon strings "HPN" do not come in thicker diameter than 107/100 mm, we recommend Alliance strings "HPK" in the positions where diameters of nylon strings are not available.

RECTIFIED NYNLON Strings - 3 examples of settings for Concert Harp

RECTIFIED NYLON Strings - 3 examples of settings for Small Harp

		INFER	IOR DIAM	ETER	STAND	ARD DIAM	ETER	SUPER	IOR DIAM	ETER	
NOTE POSITION			DIAMETR			DIAMETER			DIAMETER		
		REF.	%mm	inch	REF.	%mm	inch	REF.	%mm	inch	
OCTAVE 0)		-			-					
DO-C	00	HPN54R	54	.021	HPN56R	56	.022	HPN58R	58	.023	
SI-B	0	HPN54	54	.021	HPN56	56	.022	HPN58	58	.023	
OCTAVE 1											
LA-A	1	HPN56	56	.022	HPN58	58	.023	HPN60	60	.024	
SOL-G	2	HPN56	56	.022	HPN58	58	.023	HPN60	60	.024	
FA-F	3	HPN58B	58	.023	HPN60B	60	.024	HPN64B	64	.025	
MI-E	4	HPN58	58	.023	HPN60	60	.024	HPN64	64	.025	
RE-D	5	HPN58	58	.023	HPN60	60	.024	HPN64	64	.025	
DO-C	6	HPN60R	60	.024	HPN64R	64	.025	HPN66R	66	.026	
SI-B	7	HPN60	60	.024	HPN64	64	.025	HPN66	66	.026	
OCTAVE 2							-			-	
LA-A	8	HPN64	64	.025	HPN66	66	.026	HPN68	68	.027	
SOL-G	9	HPN66	66	.026	HPN68	68	.027	HPN70	70	.027	
FA-F	10	HPN68B	68	.027	HPN70B	70	.027	HPN72B	72	.028	
MI-E	11	HPN72	72	.028	HPN74	74	.029	HPN77	77	.030	
RE-D	12	HPN74	74	.029	HPN77	77	.030	HPN80	80	.031	
DO-C	13	HPN77R	77	.030	HPN80R	80	.031	HPN83R	83	.033	
SI-B	14	HPN77	77	.030	HPN80	80	.031	HPN83	83	.033	
OCTAVE 3			·	-			-				
LA-A	15	HPN80	80	.031	HPN83	83	.033	HPN86	86	.034	
SOL-G	16	HPN86	86	.034	HPN89	89	.035	HPN91	91	.036	
FA-F	17	HPN91B	91	.036	HPN94B	94	.037	HPN97B	97	.038	
MI-E	18	HPN94	94	.037	HPN97	97	.038	HPN100	100	.039	
RE-D	19	HPN100	100	.039	HPN103	103	.040	HPN107	107	.043	
DO-C	20	HPK95R*	95	.037	HPK95R*	95	.037	HPK101R*	101	.040	
SI-B	21	HPK95*	95	.037	HPK101*	101	.040	HPK108*	108	.042	
OCTAVE 4			·	-		-					
LA-A	22	HPK105*	105	.041	HPK108*	108	.042	HPK116*	116	.046	
SOL-G	23	HPK108*	108	.042	HPK116*	116	.046	HPK121*	121	.048	
FA-F	24	HPK121B*	121	.048	HPK125B*	125	.049	HPK127B*	127	.050	
MI-E	25	HPK136*	136	.053	HPK140*	140	.057	HPK145*	145	.057	
RE-D	26	HPK140*	140	.055	HPK145*	145	.063	HPK150*	150	.059	
* Circa a mula	un atulus and LID		المعدامة ماك		407/100			the second LIDIC in the		<u> </u>	

* Since nylon strings HPN do not come in thicker diameter than 107/100 mm, we recommend Alliance strings HPK in the positions where diameters of nylon strings are not available.

	NOTE	POSITION	INFER
		POSITION	REF.
OCTAVE 0	LA -A	000	HPK41
	SOL-G	00	HPK43
	FA-F	0	HPK45B
OCTAVE 1	MI-E	1	HPK45
	RE-D	2	HPK50
	DO-C	3	HPK52R
	SI-B	4	HPK52
	LA -A	5	HPK55
	SOL-G	6	HPK60
	FA-F	7	HPK60B
OCTAVE 2	MI-E	8	HPK64
	RE-D	9	HPK66
	DO-C	10	HPK71R
	SI-B	11	HPK74
	LA -A	12	HPK77
	SOL-G	13	HPK84
	FA-F	14	HPK86B
OCTAVE 3	MI-E	15	HPK86
	RE-D	16	HPK91
	DO-C	17	HPK95R
	SI-B	18	HPK101
	LA -A	19	HPK105
	SOL-G	20	HPK108
	FA-F	21	HPK121B
OCTAVE 4	MI-E	22	HPK121
	RE-D	23	HPK127
	DO-C	24	HPK136R
	SI-B	25	HPK140
	LA -A	26	HPK145
	SOL-G	27	HPK150
	SOL-G FA-F	27 28	HPK160B
OCTAVE 5	SOL-G	27	
OCTAVE 5	SOL-G FA-F	27 28	HPK160B
OCTAVE 5	SOL-G FA-F MI-E	27 28 29	HPK160B HPK172
OCTAVE 5	SOL-G FA-F MI-E RE-D	27 28 29 30	HPK160B HPK172 HPK180

10

or diam			STAND	AR
	METER			
%mm	inch		REF.	%
41	.016		K43	
43	.017		K45	
45	.018		K47B	
45	.018		K47	
50	.019		K52	
52	.020		K55R	
52	.020		K55	
55	.022		K57	
60	.024		K62	
60	.024		K62B	
64	.025	HP	K66	
66	.026		K69	
71	.028		K74R	
74	.029	HP	K77	
77	.030	HP	K81	
84	.033	HP	K86	
86	.034	HP	K91B	
86	.034	HP	K91	
91	.036	HP	K95	
95	.037	HP	K101R	
101	.04	HP	K105	
105	.041	HP	K108	
108	.042	HP	K116	
121	.048	ΗP	K125B	
121	.048		K125	
127	.050	HP	K132	
136	.053	HP	K140R	
140	.055	HP	K145	
145	.057	HP	K150	
150	.059	HP	K160	
160	.063	HP	K172B	·
172	.068	HP	K180	
180	.070	HP	K190	ľ
203	.080	HP	K207R	
203	.080	HP	K207	
207	.081	HP	K210	

REF. %mm inch IPK43 43 .017 IPK45 45 .018 IPK47 47 .018 IPK47 47 .018 IPK52 52 .020 IPK55 55 .022 IPK55 55 .022 IPK57 57 .022 IPK58 62 .024 IPK62 62 .024 IPK68 66 .032 IPK77 77 .030 IPK81 81 .032 IPK91 91 .036 IPK95 95 .037 IPK101R 101 .039 IPK105 105 .041 IPK108 108 .042 IPK116 116 .046 <t< th=""><th colspan="7">STANDARD DIAMETER</th></t<>	STANDARD DIAMETER						
IPK43 43 .017 IPK45 45 .018 IPK47 47 .018 IPK47 47 .018 IPK52 52 .020 IPK55 55 .022 IPK55 55 .022 IPK55 55 .022 IPK57 57 .022 IPK62 62 .024 IPK62 62 .024 IPK69 69 .027 IPK61 81 .032 IPK74R 74 .029 IPK77 77 .030 IPK81 81 .032 IPK81 81 .032 IPK91 91 .036 IPK918 91 .036 IPK95 95 .037 IPK105 105 .041 IPK108 108 .042 IPK105 105 .049 IPK125 125 .049 IPK132 132 .052 IPK140R 140 .055	REF.						
IPK45 45 .018 IPK47B 47 .018 IPK47 47 .018 IPK52 52 .020 IPK55R 55 .022 IPK55 55 .022 IPK55 55 .022 IPK57 57 .022 IPK57 57 .022 IPK52 62 .024 IPK62 62 .024 IPK69 69 .027 IPK74R 74 .029 IPK77 77 .030 IPK81 81 .032 IPK81 81 .032 IPK91 91 .036 IPK91 91 .036 IPK95 95 .037 IPK101R 101 .039 IPK105 105 .041 IPK108 108 .042 IPK105 125 .049 IPK125 125 .049 IPK132 132 .052 IPK140R 140 .055 <td></td> <td></td> <td></td> <td></td>							
IPK47B 47 .018 IPK47 47 .018 IPK52 52 .020 IPK55R 55 .022 IPK55 55 .022 IPK57 57 .022 IPK62 62 .024 IPK62B 62 .027 IPK68 66 .026 IPK77 77 .030 IPK78 74 .029 IPK77 77 .030 IPK81 81 .032 IPK91B 91 .036 IPK95 95 .037 IPK101R 101 .039 IPK105 105 .041 IPK108 108 .042 IPK105 105 .041 IPK105 105 .041 IPK105 105 .041			.018				
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IPK207R 207 .081 IPK207 207 .081							
IPK207 207 .081							
IPK210 210 .083							
	IPK210	210	.083				

SUPERIOR DIAMETER							
DIAMETER							
REF.	%mm	inch					
HPK45	45	.018					
HPK47	47	.018					
HPK50B	50	.020					
HPK50	50	.020					
HPK55	55	.022					
HPK57R	57	.022					
HPK57	57	.022					
HPK60	60	.024					
HPK64	64	.025					
HPK64B	64	.025					
HPK69	69	.027					
HPK71	71	.028					
HPK77R	77	.030					
HPK81	81	.032					
HPK84	84	.033					
HPK91	91	.036					
HPK95B	95	.037					
HPK95	95	.037					
HPK101 *	101	.040					
HPK105R	105	.041					
HPK108	108	.042					
HPK116	116	.046					
HPK121	121	.048					
HPK127B	127	.050					
HPK127	127	.050					
HPK136	136	.053					
HPK145R	145	.057					
HPK150	150	.059					
HPK160	160	.063					
HPK172	172	.068					
HPK180B	180	.071					
HPK190	190	.075					
HPK203	203	.080					
HPK210R	210	.083					
HPK210 *	210	.083					
HPK210 *	210	.083					
* strings HPK210 or metal wound							

NOTE	I	IRISH SMALL HARP							
	POSITION	REF.	DIAMETER						
			%mm	inch					
DO-C									
SI-B									
LA-A	1	HPK43	43	.017					
SOL-G	2	HPK45	45	.018					
FA-F	3	HPK47B	47	.018					
MI-E	4	HPK47	47	.018					
RE-D	5	HPK52	52	.020					
DO-C	6	HPK55R	55	.022					
SI-B	7	HPK55	55	.022					
LA-A	8	HPK57	57	.022					
SOL-G	9	HPK62	62	.024					
FA-F	10	HPK66B	66	.026					
MI-E	11	HPK66	66	.026					
RE-D	12	HPK69	69	.027					
DO-C	13	HPK74R	74	.030					
SI-B	14	HPK77	77	.030					
LA-A	15	HPK81	81	.032					
SOL-G	16	HPK86	86	.034					
FA-F	17	HPK91B	91	.036					
MI-E	18	HPK91	91	.036					
RE-D	19	HPK95	95	.037					
DO-C	20	HPK101R	101	.040					
SI-B	21	HPK105	105	.041					
LA-A	22	HPK108	108	.042					
SOL-G	23	HPK116	116	.046					
FA-F	24	HPK125B	125	.049					
MI-E									
RE-D									

SMALL HARP WITHOUT PEDAL N°1						
POSITION	REF.	DIA	METER			
		%mm	inch			
1	HPK52	52	.020			
2	HPK52	52	.020			
3	HPK52B	52	.020			
4	HPK52	52	.020			
5	HPK52	52	.020			
6	HPK55R	55	.022			
7	HPK57	57	.022			
8	HPK62	62	.024			
9	HPK64	64	.025			
10	HPK66B	66	.026			
11	HPK71	71	.028			
12	HPK77	77	.030			
13	HPK81R	81	.032			
14	HPK84	84	.033			
15	HPK86	86	.034			
16	HPK91	91	.036			
17	HPK95B	95	.037			
18	HPK101	101	.040			
19	HPK101	101	.040			
20	HPK108R	108	.042			
21	HPK116	116	.046			
22	HPK116	116	.046			
23	HPK121	121	.048			
24	HPK125B	125	.050			
25	HPK127	127	.050			
26	HPK132	132	.052			

SMALL	SMALL HARP WITHOUT PEDAL N°2						
POSITION	REF.	DIAMETER					
		%mm	inch				
1	HPK55R	55	.022				
2	HPK55	55	.022				
3	HPK55	55	.022				
4	HPK57	57	.022				
5	HPK57B	57	.022				
6	HPK62	62	.024				
7	HPK62	62	.024				
8	HPK69R	69	.027				
9	HPK69	69	.027				
10	HPK71	71	.028				
11	HPK71	71	.028				
12	HPK74B	74	.029				
13	HPK77	77	.030				
14	HPK77	77	.030				
15	HPK81R	81	.032				
16	HPK81	81	.032				
17	HPK86	86	.034				
18	HPK86	86	.034				
19	HPK91B	91	.036				
20	HPK91	91	.036				
21	HPK91	91	.036				
22	HPK101R	101	.040				
23	HPK108	108	.042				
24	HPK108	108	.042				
25	HPK125	125	.050				
26	HPK125B	125	.050				
27							
28							

ALLIANCE Strings - 3 examples of settings for Small Harps

String Diameters and References RECTIFIED OILED GUT and RECTIFIED VARNISHED GUT

RECTIFIED OILED GUT



RECTIFIED VARNISHED GUT

INUSA

DIAM	ETER	REFERENCE length 1,20 m	DIAM	DIAMETER		REFERENCE lengt	
% mm	inch	Natural	% mm	% mm Inch		Red	Blue
38		HPBH38	38		Natural HPBV38		
40		HPBH40	40	0,0157			
44		HPBH44	44	0,0173			
48		HPBH48	48	0,0189			HPBV48B
51		HPBH51	51	0,0201			HPBV51B
53	0,0209	HPBH53	53	0,0209	HPBV53		HPBV53B
55	0,0216	HPBH55	55	0,0216	HPBV55	HPBV55R	
58		HPBH58	58		HPBV58	HPBV58R	
61		HPBH61	61		HPBV61	HPBV61R	
63	0,0248	HPBH63	63		HPBV63		
66		HPBH66	66		HPBV66		HPBV66B
68		HPBH68	68		HPBV68		HPBV68B
71		HPBH71	71		HPBV71		HPBV71B
74		HPBH74	74	0,0291	1	HPBV74R	
79		HPBH79	79	0,0311		HPBV79R	
81		HPBH81	81		HPBV81	HPBV81R	
84		HPBH84	84	0,0331			
89	0,0350	HPBH89	89	0,0350	HPBV89		HPBV89B
94	0,0370	HPBH94	94	0,0370	HPBV94		HPBV94B
97	0,0382	HPBH97	97	0,0382	HPBV97		HPBV97B
99	0,0390	HPBH99	99	0,0390	HPBV99	HPBV99R	
104	0,0409	HPBH104	104	0,0409	HPBV104	HPBV104R	
109	0,0429	HPBH109	109	0,0429	HPBV109	HPBV109R	
114	0,0449	HPBH114	114	0,0449	HPBV114		
122	0,0480	HPBH122	122	0,0480	HPBV122		HPBV122B
127	0,0500	HPBH127	127	0,0500	HPBV127		HPBV127B
132	0,0520	HPBH132	132	0,0520	HPBV132		HPBV132B
137	0,0539	HPBH137	137	0,0539	HPBV137	HPBV137R	
142	0,0559	HPBH142	142	0,0559	HPBV142	HPBV142R	
150	0,0590	HPBH150	150	0,0590	HPBV150	HPBV150R	
DIAM	ETER	REFERENCE length 1,50 m	DIAM	IETER	REFER	ENCE leng	th 1,50 m
% mm	inch	Natural	% mm	Inch	Natural	Red	Blue
160		HPBH160	160		HPBV160		
170	0,0669	HPBH170	170	0,0 <mark>669</mark>	HPBV170		HPBV170B
178	0,0701	HPBH178	178	0,0701	HPBV178		HPBV178B
185	0,0728	HPBH185	185	0,0728	HPBV185		HPBV185B
193	0,0760	HPBH193	193	0,0760	HPBV193	HPBV193R	
203	0,0799	HPBH203	203	0,0799	HPBV203	HPBV203R	
213		HPBH213	213	0,0839	HPBV213	HPBV213R	
225	0,0886	HPBH225	225	0,0886	HPBV225		

The number after the letters corresponds to the diameter in hundredths of millimetres. The letters R or B are for Red or Blue.

String Diameters and References RECTIFIED STABILON NYLON SAVAREZ

DIAMETER		REFERENCE 1,00 m				
% mm	inch	Natural	Red	Blue		
40	0,0157	HPN40				
42	0,0165	HPN42				
44	0,0173	HPN44				
47	0,0185	HPN47				
50	0,0197	HPN50	HPN50R			
52	0,0205	HPN52				
54	0,0212	HPN54	HPN54R	HPN54B		
56	0,0220	HPN56	HPN56R	HPN56B		
58	0,0228	HPN58	HPN58R	HPN58B		
60	0,0236	HPN60	HPN60R	HPN60B		
64	0,0252	HPN64	HPN64R	HPN64B		
66	0,0260	HPN66	HPN66R	HPN66B		
68	0,0268	HPN68	HPN68R	HPN68B		
70	0,0275	HPN70		HPN70B		
72	0,0283	HPN72		HPN72B		
74	0,0291	HPN74		HPN74B		
77	0,0303	HPN77	HPN77R	HPN77B		
80	0,0315	HPN80	HPN80R	HPN80B		
83	0,0327	HPN83	HPN83R			
86	0,0338	HPN86	HPN86R			
89	0,0350	HPN89				
91	0,0358	HPN91	HPN91R	HPN91B		
94	0,0370	HPN94		HPN94B		
97	0,0382	HPN97		HPN97B		
100	0,0394	HPN100	HPN100R			
103	0,0405	HPN103	HPN103R			
107	0,0421	HPN107	HPN107R			

The number after the letters corresponds to the diameter in hundredths of millimetres. The letters R or B are for Red or Blue.

String Diameters and References ALLIANCE COMPOSITE

DIAM	IETER	REFERENCE length 1,00 m			ALLIANC	E	
% mm	Inch	Natural	Red	Black	2	A> -1	-7
30	0,0118	HPK30			S,	41/2	
33	0,0130	HPK33				WAN	
37	0,0146	HPK37	HPK37R				
41	0,0161	HPK41		HPK41B	1		
43	0,0169	HPK43		HPK43B	1		
45	0,0177	HPK45	HPK45R	HPK45B			
47	0,0185	HPK47	HPK47R	HPK47B]		
50	0,0197	HPK50	HPK50R	HPK50B			
52	0,0205	HPK52	HPK52R	HPK52B]		
55	0,0216	HPK55	HPK55R	HPK55B			
57	0,0224	HPK57	HPK57R	HPK57B			
60	0,0236	HPK60		HPK60B			
62	0,0244	HPK62	HPK62R	HPK62B]		
64	0,0252	HPK64	HPK64R	HPK64B			
66	0,0260	HPK66	HPK66R	HPK66B			
69	0,0272	HPK69	HPK69R	HPK69B			
71	0,0279	HPK71	HPK71R	HPK71B	1		
74	0,0291	HPK74	HPK74R	HPK74B	1		
77	0,0303	HPK77	HPK77R				
81	0,0319	HPK81	HPK81R	HPK81B			
84	0,0331	HPK84	HPK84R	HPK84B	1		
86	0,0338	HPK86	HPK86R	HPK86B			
91	0,0358	HPK91	HPK91R	HPK91B			
DIAM	IETER			REFERENCE length 2,00 m			
% mm	Inch	Natural	Red	Black	Natural	Red	Black
95	0,0374	HPK95	HPK95R	HPK95B			
101	0,0397	HPK101	HPK101R	HPK101B	HPK101A	HPK101RA	HPK101BA
105	0,0413	HPK105	HPK105R		HPK105A	HPK105RA	
108	0,0425	HPK108	HPK108R	HPK108B	HPK108A	HPK108RA	HPK108BA
116	0,0457	HPK116	HPK116R	HPK116B	HPK116A	HPK116RA	HPK116BA
121	0,0476	HPK121		HPK121B	HPK121A		HPK121BA
125	0,0492	HPK125	HPK125R	HPK125B	HPK125A	HPK125RA	HPK125BA
127	0,0500	HPK127	HPK127R	HPK127B	HPK127A	HPK127RA	HPK127BA
132	0,0519	HPK132	HPK132R	HPK132B	HPK132A	HPK132RA	HPK132BA
136	0,0535	HPK136	HPK136R		HPK136A	HPK136RA	
140	0,0551	HPK140	HPK140R		HPK140A	HPK140RA	
145	0,0571	HPK145	HPK145R	HPK145B	HPK145A	HPK145RA	HPK145BA
150	0,0590	HPK150			HPK150A		
160	0,0630	HPK160	HPK160R	HPK160B	HPK160A	HPK160RA	HPK160BA
172	0,0677	HPK172		HPK172B	HPK172A		HPK172BA
180	0,0708	HPK180	HPK180R	HPK180B	HPK180A	HPK180RA	HPK180BA
190	0,0748	HPK190			HPK190A		
203	0,0799	HPK203	HPK203R		HPK203A	HPK203RA	
207	0,0815	HPK207	HPK207R	HPK207B	HPK207A	HPK207RA	HPK207BA
210	0,0826	HPK210	HPK210R		HPK210A	HPK210RA	

The number after the letters corresponds to the diameter in hundredths of millimetres. The letters R or B are for Red or Black.

References of the Strings WOUND ON STEEL



Concert Harp

OCTAVE	NOTE	REFERENCE		
		Medium	Forte	
5th octave	DO-C		HAF31	
	SI-B		HAF32	
	LA-A		HAF33	
	SOL-G	HAM34	HAF34	
	FA-F	HAM35	HAF35	
6th octave	MI-E	HAM36	HAF36	
	RE-D	HAM37	HAF37	
	DO-C	HAM38	HAF38	
	SI-B	HAM39	HAF39	
	LA-A	HAM40	HAF40	
	SOL-G	HAM41	HAF41	
	FA-F	HAM42	HAF42	
7th octave	MI-E	HAM43	HAF43	
	RE-D	HAM44	HAF44	
	DO-C	HAM45	HAF45	

Small Harps

OCTAVE	NOTE	REFERENCE	Length	NOTE	REFERENCE	Length
4th octave	DO-C	J27	1,20m	DO-C	JC27	1,35m
	SI-B	J28	1,20m	SI-B	JC28	1,35m
5th octave	LA-A	J29	1,20m	LA-A	JC29	1,35m
	SOL-G	J30	1,20m	SOL-G	JC30	1,35m
	FA-F	J31	1,20m	FA-F	JC31	1,35m
	MI-E	J32	1,20m	MI-E	JC32	1,35m
	RE-D	J33	1,20m	RE-D	JC33	1,35m
	DO-C	J34	1,20m	DO-C	JC34	1,35m
	SI-B	J35	1,35m	SI-B	JC35	1,40m
6th octave	LA-A	J36	1,35m	LA-A	JC36	1,40m



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