

ProgramChangeNumber	CC1 value	actual articulation	
1 Basic patch	n.a.	basic p[atch	
2 Espressivo	1-63	espressivo	
	64-120	molto espressivo	
	120-127	vertical vibrato	
3 1stPos > Full e string	1-63	pos1&e-string no nail no vib	
	64-127	pos1&e-string with nail no vib	
4 Dolce Metallico	1-63	dolce tast	
	64-127	metallico ponticello	
5 Detache-Staccato	1-63	detache/staccato/	
	64-127	staccatissimo (very short)	
6 Thin-warm	1-63	thinner sound	
	64-127	warm sound	
7 Portamento	1-15	up 2	
	16-30	up 3-4 fast	
	31-45	up 3-4 medium speed	
	46-60	8 up	
	61-75	bass 2 up	
	76-90	bass 4 up	
	91-115	bass 8 up	
	116-127	slides	
8 Slurs Up Down	1-63	hammer (up)	
	64-120	pull (down)	
	121-127	slur to open strings (pull)	
9 OpenStrings	1-40	open normal	
	41-80	open tast	
	81-127	open metallico	
10 Pizzicato	1-63	RH pizz	
	64-127	Bartok pizz	
11-Trills-min2-maj2	1-63	trill minor 2/half tone, looped	
	64-127	trill major 2/whole tone, looped	
12-Harmonics Natural	0-20	harmonics natural XII	
	21-40	harmonics natural VII	
	41-60	harmonics natural IX	
	61-80	harmonics natural V	
	81-127	harmonics natural XII VII V no doubles	
13-Harmonics Artificial	1-30	harmonics artificial full range	13-HarmArt-
	31-60	harmonics artificial XII	
	61-90	harmonics artificial XIX	
	91-127	harmonics ad lib on bass strings	
14 Open stings-Harmonics	1-63	6strings open: downstrokes	
		E1 metallico	
		F1 dolce	
		A1 stroke downwards	
		B1 rasgueado	
		C1 tambora	
	64-127	6strings harmonics (downstrokes) x4	
		from E2: XII; E3: VII; E4:V; E5; IX	
		dolce-nail-metallico-nail_tasto-rasgueado-tambora	

15-Tremolando1and2_strings eb	0-19 20-39 40-59 60-79 80-99 100-127	soft tremolando on e & b; only e string soft tremolando on e & b; only e string, looped soft tremolando on e & b; minor 3 soft tremolando on e & b; minor 3, looped soft tremolando on e & b; major 3 soft tremolando on e & b; major 3, looped	15-Tremolar
16-Scordatura6-5-detuning	0-19 20-39 40-59 60-79 80-99 100-127	6=D open & harmonics 6=Eb open & harmonics 6=F open & harmonics 5=G open & harmonics 5=Ab open & harmonics detuning down 6 & 5, open & harmonics	16-Scordatu
17 Portamento start only	1-39 40-59 60-79 80-89 90-99 100-119 120-127	portamento up 2 on nylon strings portamento up 3-4 on nylon strings portamento up 7-8 on nylon strings portamento up 2 on bass strings portamento up 3-4 on bass strings portamento up 7-8 on bass strings portamento down 4-5 on nylon strings	
18 Fxall	0-40 41-80 81-127	FX basics (see appendix) crossed strings IX X XI XII crossed strings IX X XI XII looped	
19 Bending-Tambora	0-29 30-59 60-79 80-127	bending up down fast bending up down slow tambora full range tambora with nail, only on e	
20 Stringnoise	n.a.	different squeezes (release trigger)	
21 Resonance 654	n.a.	sympathic resonance of bass strings	
<b>Flamenco techniques</b>			
22 Stroke 1 String down up	n.a.	Downstroke 1 note; upstroke CC2: 64-127)	
23 Stroke 2 3 strings	0-19 20-39 40-59 60-79 80-99 100-127	minor 3 on be; release up trigger:CC2: 64-127) major 3 on be; release up trigger:CC2: 64-127) perfect fourth on be; release up trigger:CC2: 64-127) E chord on gbe, down only Em chord on gbe, down only C chord on gbe, down only	
24 Stroke 3 strings Amaj-min_UpDw	see specs.-->	A on gbe up-down CC1+CC2:>1-50< Am on gbe up-down CC1+CC2:>64-100< A forced down CC1>1-50<+CC2>51-63< A forced up CC1>64-100<+CC2>101-127< Am forced down CC1>64-100<+CC2>51-63< Am forced up CC1>51-63<+CC2>64-100<	
25 Rasg-A-Am-E-Em-E7	0-19 20-39 40-59 60-79 80-127	rasgueado on gbe: Am rasgueado on gbe: A rasgueado on dgbe: E rasgueado on dgbe: Em rasgueado on dgbe: E7	
26 ChasquidoChords	0-39 40-79 80-127	chord damped after attack: major chord damped after attack: minor chord damped after attack: seventh	
27 Thumb-Callo-y-uno	n.a.	special flamenco thumb sound (flesh>nail)	