

# Supreme 614 "SOLO"

The idea of designing this ELTIM Supreme 614 "SOLO" is based on the fact that we sent MOREL SCM 634 Midrange units to German Klang & Ton as well as Hobby Hifi magazines for a test, where both gave it the status of "Excellent full range unit". Based on their measurements it would perform very well in a ported cabinet of about 20 liters with a range of around 30-18.000Hz. And it DOES, and HOW..... !

Designing a full range was new for our designer Louis Timmers and he had to face some things never done before.

It took some more time to develop it, even though is a most simple design. To check this new status of the [MOREL](#) unit [SCM 634](#) we mounted it in our CA625 cabinet and drove it full range. This first adventure was simply already unbelievable due to 3D, warmth, etc. Let's say in one word:

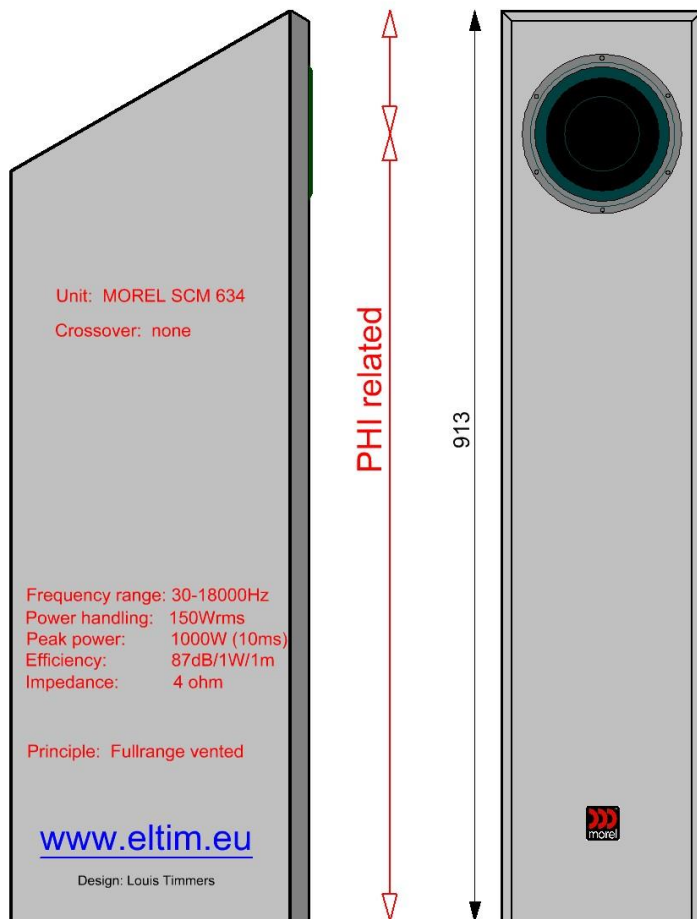
*MUSIC*

This unit obviously deserved to be built in a very nice-looking cabinet, matching the sound reproduction.



## Supreme 614 "Solo"

In this design the natural number PHI (1,61803....), also known as "the golden number" is used wherever possible.



After some experiments with different shapes, we decided for some smaller cabinet as both magazines had calculated, to achieve the best overall performance instead of maximum bass. It has a great appeal with its triangular shape and roof-like top panel. This top panel isn't just there for the looks, it also reflects the waves down into the cabinet. A port in the front didn't look nice and generates too much midrange in this full range design, so we had to come up with something else. Since the back is only 50mm wide this was no option and so, only the bottom was left. So, this speaker needs to be placed on spikes to let the port do what it is meant to do: generating fantastic low frequencies, going way deeper as you would expect from a 16cm unit in a cabinet like this. It simply will make you smile at the first deep bass note, promise.

You can even tune the bass by lifting the speaker more or less from the floor. On the other side, a 16cm woofer with a “regular” looking cone can never produce 18k, right? Wrong! It simply DOES, due to all the key features MOREL company has in house, to start with the unique, shallow TRUE Carbon fiber/ Rohacell/Carbon fiber sandwich cone. Then the ultra light (4 ohms to save weight) 75mm aluminum Hexatech voice coil in underhung configuration, a copper sleeve to minimize EMF and flattening impedance curve by nature, a hybrid magnet system, ultra-stiff Uniflow basket providing maximum freedom of movement, very long throw despite the “wide-midrange” classification Morel gave it, etc.

The ones in the picture below (and 6moons test) are in our living room for 15 years already. We drove it up at disco level many times with all kinds of music, but still working fine. And more important: they make me smile about every day when I hear something different than what I see -)

The MOREL management visited me in 2014 and were truly amazed about what they heard. I got a present for my Morel work: the very first pair of TSCM634. They do NOT work in this setup!

This system appears NOT to have all the flaws noticed in so many full range systems. WHAT it is bundling from 4k up, WHAT it is intermodulating high frequencies, WHAT it has no power, WHAT there is no punch, WHAT there is no bass present, WHAT about metal instruments don't sing, WHAT about sharp S and T sounds, WHAT about hollow sound in midrange and screaming in your face as about all full ranges appear to do????? I don't know why and I don't care, this system has none of these flaws; it is all as it should be as hundreds of people noticed at Dutch X-Fi show 29-30 sept. 2012 and all the people who spent time to listen to this setup in our facility as Marja & Henk of [6moons audio reviews](#) did at their home.

Obviously sometimes you must put aside all the “meanings” and “laws” and think/look/listen some further and “outside the box”.

Simply try something new.....  
And sometimes, it even works:

[YouTube demo with 12 tracks](#)

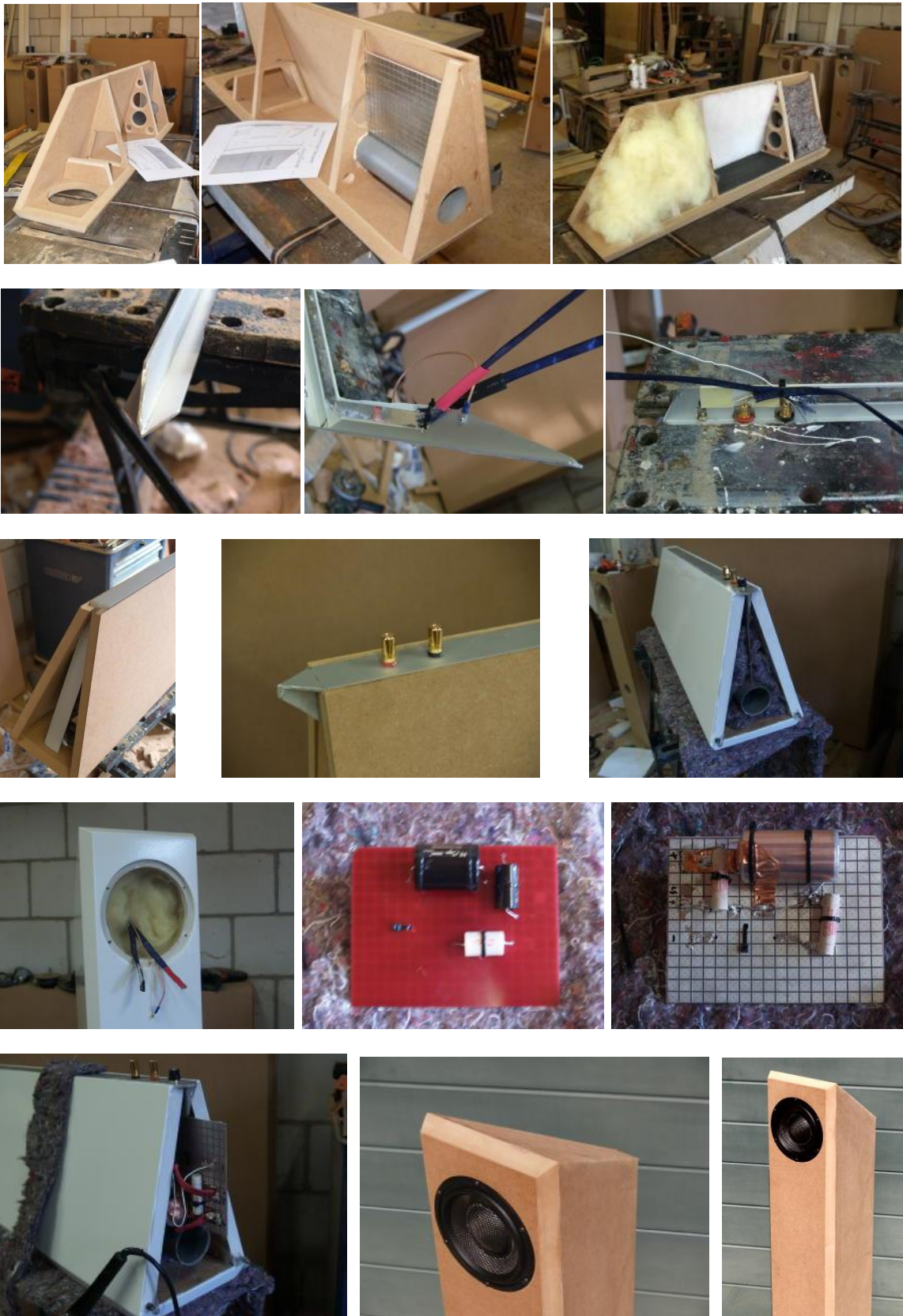
Surprised as well now? Nice -)

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mkI/proto shown, modified May 2017 (mkII, slightly larger version)



Pictures of building the very first speakers, [reviewed by 6moons](#) and for many years in our living room now.

We are now supplying an mkII version, which is a bit larger. Also, we left out the correction network and silver foil internal wiring. People believe the price increase these caused was not worth it.

We can add (and recommend) this silver wiring.

LT

