

## GZIW 12SPL – affordable stunner from Ground Zero

# Sound Pressure Genius

**BEST VALUE**  
**Upper Class**  
**CAR & HIFI** 4/2015

With the GZIW 12SPL, Ground Zero presents a woofer within the affordable Iridium range, but with the appendix SPL. We clarify the contradiction.

SPL woofers usually are heavy shunks – and they're almost always quite costly. The GZIW 12SPL can be purchased for less than USD 180; about the fourteenth part of the asking price of their SPL flagship Plutonium GZPW 15SPL-Extreme. This should make clear that the GZIW 12SPL is not meant for setting up new world records, but it should always be good enough for some serious sound pressure fun. Its cone is made from half-pressed paper and has a very steep cone angle, which delivers stability. We can even find a 64 mm (2.5") voice coil with the respective power handling capacity. Additionally the construction offers plenty of mechanical stroke reserves as well as outstanding electrical stroke with a 10 mm (0.4") voice coil overhang. The design is practice-oriented with a free air

resonance of 40 Hz and 30 liters (1.06 cu.ft) of equivalent volume, only the relatively high Q factor of 0.74 prohibits an absolutely linear frequency response. The GZIW is also available in a 45 liter (1.41 cu.ft) bass reflex cabinet (GZIB 3000SPL) with a reflex tuning at 40 Hz.

### Sound

The GZIW introduces itself with a vehement character – I wouldn't

have trusted such an affordable woofer to produce so much pressure. Fat, dark bass gets cracking and makes the rearview mirror vibrate with ease. The upper bass parties hard, too, but it remains tidy at all times. Of course there are woofers with a more controlled and more precise bass, but the GZIW never becomes hazy.

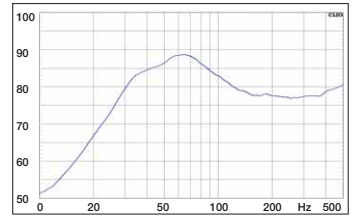
### Conclusion

The GZIW 12SPL will make a lot of friends with its powerful sound – and the friendly pricing will help quite a bit, too.

*Elmar Michels*



The GZIW 12SPL comes with a paper cone and a well vented frame



The GZIW 12SPL pronounces the upper bass a bit, but it can still produce powerful pressure down to 40 Hz, with a good deep bass

### Ground Zero GZIW 12SPL

Distribution	Ground Zero Egmating
Hotline	08095 873830
Internet	ground-zero-audio.com.de

Sound	50 %	1,3	■■■■■
Bass foundation	12,5 %	1,0	■■■■■
Bass pressure	12,5 %	1,0	■■■■■
Accuracy	12,5 %	1,5	■■■■■
Dynamics	12,5 %	1,5	■■■■■

Lab	30 %	1,7	■■■■■
Frequency response	10 %	1,5	■■■■■
Efficiency	10 %	2,0	■■■■■
Max. SPL	10 %	1,5	■■■■■

Workmanship	20 %	1,5	■■■■■
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### Technical Specifications

Basket diameter	31,0 cm
Mounting diameter	28,6 cm
Mounting depth	16,1 cm
Magnet diameter	14,5 cm
Weight	6,0 kg

Nominal impedance	2 x 2 Ohm
DC resistance Rdc	3,98 Ohm
Voice coil inductance	2,74 mH
Voice coil diameter	64 mm
Projected area	519 cm <sup>2</sup>
Resonance frequency fs	40,2 Hz
Mechanical Q Qms	7,01
Electrical Q Qes	0,83
Total Q Qts	0,74
Air volume equivalent Vas	29,8 l
Effective mass Mms	198,0 g
Mechanical resistance Rms	7,13 kg/s
Compliance Cms	0,08 mm/N
Motor strength Bxl	15,53 Tm
SPL 1 W, 1 m	89 dB
Recommended Power	250 - 400 W
Enclosure for test	BR 45 l
Port dimensions	90 cm <sup>2</sup> x 21 cm

### Bewertung

Rating	USD 180
Sound	50 % 1,3 ■■■■■
Lab	30 % 1,7 ■■■■■
Workmanship	20 % 1,5 ■■■■■

### Ground Zero GZIW 12SPL

Absolute Top Class	<b>1,5</b>
Top Class	
Upper Class	
Price-Performance:	Very good

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„Super affordable woofer with plenty of steam.“