

Biomechanical Walk Comfort Certificate - 20.12.24

UMANA

Footwear Analysis Biomechanical Center

CERTIFIES

that the FOOTWEAR

ER80



developed and marketed by

FAL

provides a level of comfort

great

for users regarding the parameters described in the technical annex.

UMANA guarantees the accuracy and objectivity of the biomechanical tests, which have been carried out under strict study protocols and which allow obtaining values for the analytical parameters in a direct, instrumental manner.

Xavier Alfonso Cornes
Biomechanical Engineer

Ramón Vila Bastos
Degree in Medicine and Surgery

Carlos Peleteiro Franco
Physiotherapist

Juan Jose Fernández Cores
Chiroprapist



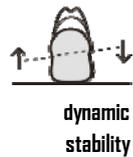
Technical annex (detailed explanation of the biomechanical walk comfort assessment)



The FAL ER80 footwear provides an excellent (8,6/10) footstep forces absorption, reducing by 46,0% the loads on the feet and joints during the heelstrike phase when walking. In this way it helps excellently to prevent pain and discomfort in the feet and joints of the legs.



The FAL ER80 footwear provides an excellent (8,9/10) footstep forces uniformity, smoothing 9,6% plantar loads when walking. In this way, it helps excellently to improve the comfort sensation on the foot sole during the step (heelstrike-midstance-pushoff phases).



The FAL ER80 footwear provides an exceptional (9/10) dynamic step stability when walking, with average values of 40,8% in the heelstrike-midstance-pushoff phases. In this way it helps extraordinarily to improve the safety of the step, and to reduce the stabilization muscles activity and muscle fatigue.



The FAL ER80 footwear provides a great (7,3/10) reactive impulse when walking, with 22,0mW/W reactive power, and 15,0 s/h gain.

This study was carried out using the average value for 5 people (3 men and 2 women), whose physical characteristics están comprendidas en los rangos indicados a continuación:
 Foot Type diverse Height 165 a 195 cm P 63 a 99,9
 Tread pattern diverse Weight 60 a 100 kg BMI 19,6 a 26,3
 Test conditions: walking | 3-5 km/h | slope 0% | 18-22°C | 60-80% HR

