

STANDARD

# ANSI/ISEA 138-2019

American National Standard for Performance and Classification for Impact Resistant Gloves



## IMPACT RESISTANT

ANSI/ISEA 138-2019 establishes performance levels, testing and classification for gloves designed to protect the fingers and knuckles from impacts while performing occupational tasks.

ANSI/ISEA (American National Standards Institute/International Safety Equipment Association) 138-2019 standard is designed to test multiple impact points on the fingers and knuckles, resulting in three levels of measurement. This American National Standard is an evolution of the existing European Standard for impact – EN 388:2016.

ANSI / ISEA 138



# 3

≤ **4 kN**  
Kilonewton (kN)  
Mean Transmitted Force

### MAX PERFORMANCE LEVEL

ANSI / ISEA 138



# 2

≤ **6.5 kN**  
Kilonewton (kN)  
Mean Transmitted Force

### MED PERFORMANCE LEVEL

ANSI / ISEA 138



# 1

≤ **9 kN**  
Kilonewton (kN)  
Mean Transmitted Force

### MIN PERFORMANCE LEVEL

## Test Impact Zone

Distance from tip



25mm from tip

50mm from tip



Knuckle impacts

## ANSI/ISEA 138-2019

### Glove sample

Palm side of the glove is removed and only the back of the hand is tested.

### Weight

A drop striker is dropped (with an energy force of 5 joules) onto the glove, which is placed on an anvil.

### Tests

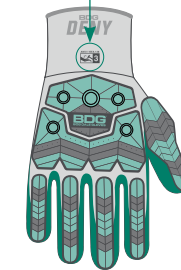
There are 9 impact sites tested on each glove (see diagram).

Total of 18 tested impacts (8 knuckles, 10 fingers/thumb) are used to calculate the mean of the forces.

### Results

Impact performance rating is based on lowest rating achieved on all the impact points tested.

Source: [safetyequipment.org/ansi-isea-138-2019](http://safetyequipment.org/ansi-isea-138-2019)



### Impact resistant gloves

Test results are represented by performance levels **1, 2 or 3** as depicted on the gloves.

**Level 3** is the highest level of protection.

Tests are verified by an accredited third party laboratory.



Bob Dale Gloves is a member of the ISEA (International Safety Equipment Association).

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