

# SIDE-KICK

NON-DESTRUCTIVE MOISTURE  
DETECTOR  
FOR EPDM AND  
BUTYL BASED  
ROOFING



## Technical Data

### Dimensions

**Carrying Case:**

21 inches wide (533 mm)  
16 inches deep (406 mm)  
8 inches high (203 mm)

**Side-Kick:**

8.5 inches wide (216 mm)  
9.5 inches deep (406 mm)  
3.5 inches high (90 mm)

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### Weight

Side-Kick: 7 pounds (3.2 kg)  
Side-Kick with case: 14  
pounds (6.4 kg)

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### Power Supply

Two 9 volt batteries

### Construction

**Body:**

ABS plastic

**Probe:**

Aluminum tubing with stainless  
steel sensor

**Grounding clip:**

Cadmium plated steel alligator clip

**Carrying Case:**

ABS plastic, foam lined

**Accessories:**

Supplied complete with extension  
cable and reel, probes, shoulder  
strap, carrying case, batteries and  
instructions.

**Guarantee:**

Limited guarantee covering all parts  
and labor costs resulting from  
defects in materials and workman-  
ship for a period of one year.

**Service:**

Full service and spare parts avail-  
able:

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## Product Description

The Side-Kick is a portable component system designed for detection of moisture beneath black EPDM and Butyl based roofing materials. Safe, non-destructive electronic detection system locates and traces leaks back to their source and identifies substrate damage incurred.

### Operation and Function

- As the operator walks across the roof pressing the hand-held extension probe onto the surface of the EPDM roofing material, low frequency (17-20 KHz) signal is passed through the electrically conductive EPDM material.
- A second lead from the Side-Kick the roof deck by means of an alligator clip connected to a protrusion through the roof surface or edge trim.
- During an instant of the AC cycle, an area of the EPDM roofing surrounding the probe is positive and the deck is negative.
- As opposite charges are attracted to each other, negative charges will try to flow towards positive charges and visa versa.
- When the roof construction is dry, the roof deck and underside of the EPDM is wet, the resistance decreases by at least 6 order of magnitude (i.e. 1,000,000 times) and hence a current flows and is measured.
- the greater the density of moisture (wetness), the stronger the audible and visual signal from the Side-Kick.

### Uses

- Leak tracing on roofs having EPDM or Butyl rubber-waterproofing membranes above the insulation (water often leaks into the building a considerable distance from the point of entry into the roof).
- Preventive Maintenance (indicates presence of moisture between the EPDM membrane and the roof deck, which cannot be accessed by visual inspection or core cuts alone).
- Assessing condition and extent of moisture prior to repairs, retrofit or re-roofing.
- Quality control inspection on new roofs.

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### Limitations

- Will not operate on inverted roofing systems without removal of insulation and ballast.
- Will not operate on built-up, asphalt or bitumen based p.v.c. or electrically non conductive roofing (Dec-Scanner suitable for these types of roofing).