

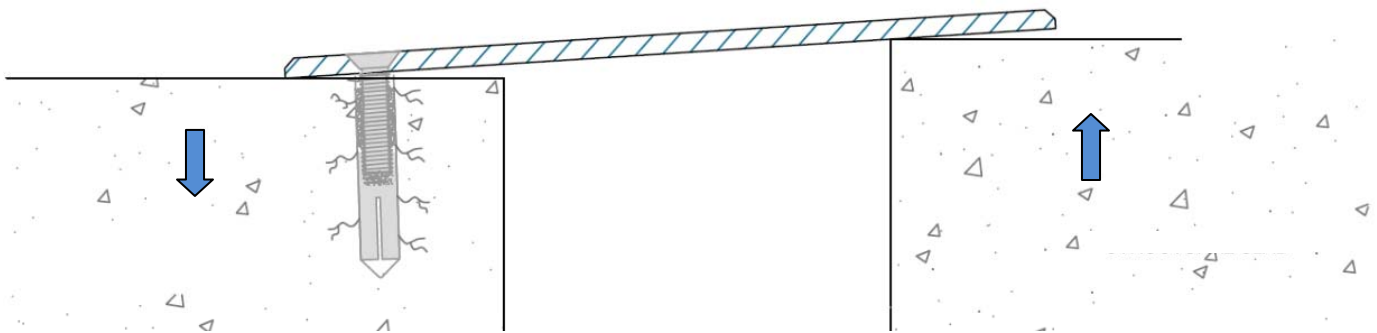


TECHNICAL BULLETIN 120

Subject: Hinged Safety Covers Solve “Can-opener Effect” Failures
(POSTING DATE: 10/09/12)

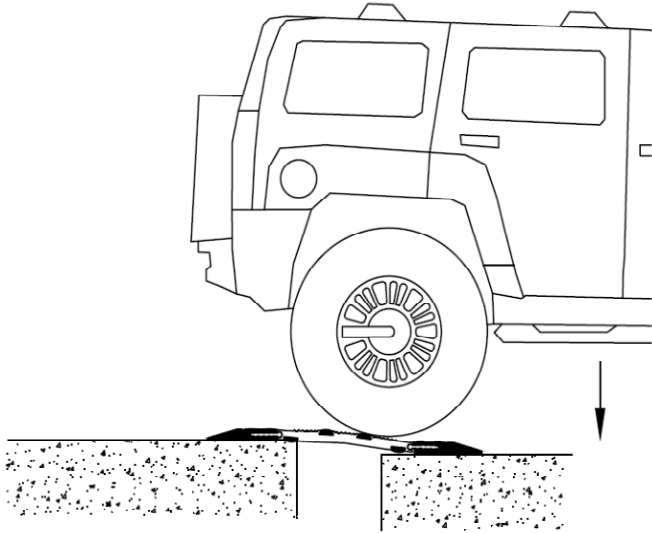
Surface mounted cover plates tend to fail quickly and have a short life span - why?

Simple metal cover plates are vulnerable to anchors being pried loose due to vertical deflection in concrete decks when automobiles travel across expansion joint openings from one deck to the opposing deck. The constant up and down deck deflection loosens the anchors, known as the “can-opener effect”, to the point where the covers themselves begin to shift, buckle or dislodge.

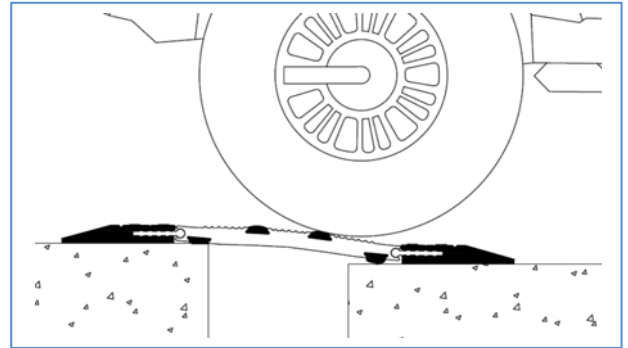


The photos above exhibit how the anchors loosen and covers dislodge. The illustrations on page 2 provide a clear remedy to the situation by suggesting hinged expansion joint slide plate covers that are engineered to accommodate vertical deflection and vehicular impact loads.

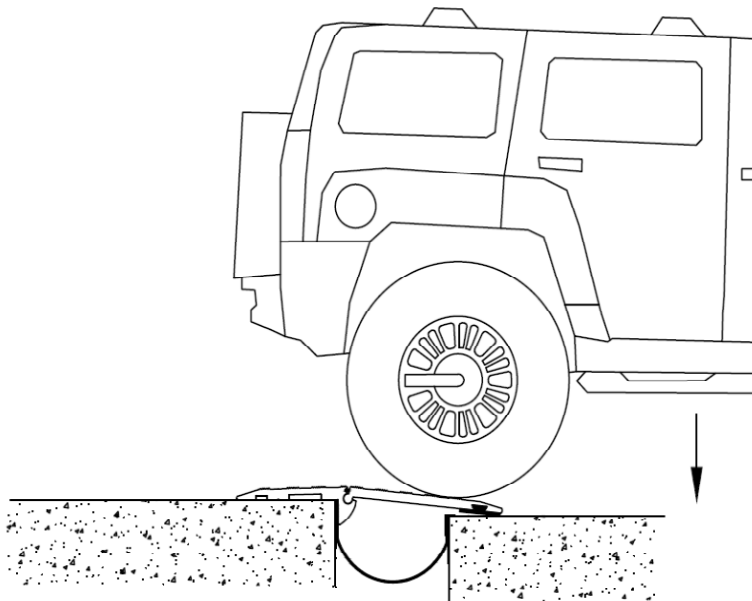
HINGED EXPANSION JOINT COVERS ENGINEERED FOR VERTICAL DEFLECTION & VEHICULAR IMPACT LOADS



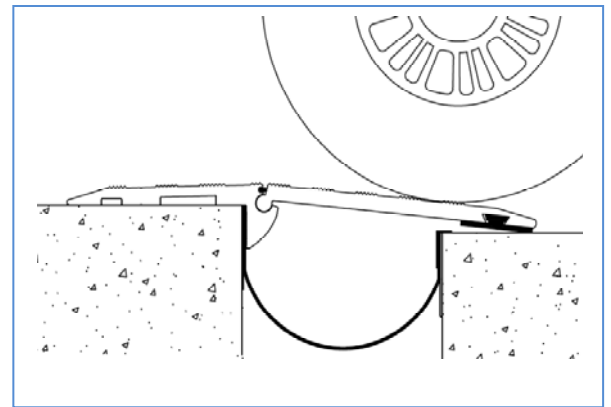
Standard Duty Designs



Dual hinged Rubber Safety Covers accommodate Vertical Deck Deflection Loads (RSC Series)



Heavy Duty Designs



Single hinged Aluminum Safety Cover utilizes epoxy anchors and rubber impact dampers (HSC Series)

Visit our web site at www.mm-usa.com for additional engineered solutions.