

ACCESS COVER SELECTION CRITERIA

Use Figure 1 and Table 1 below as a guide to determine the minimum class of cover required for installation areas.

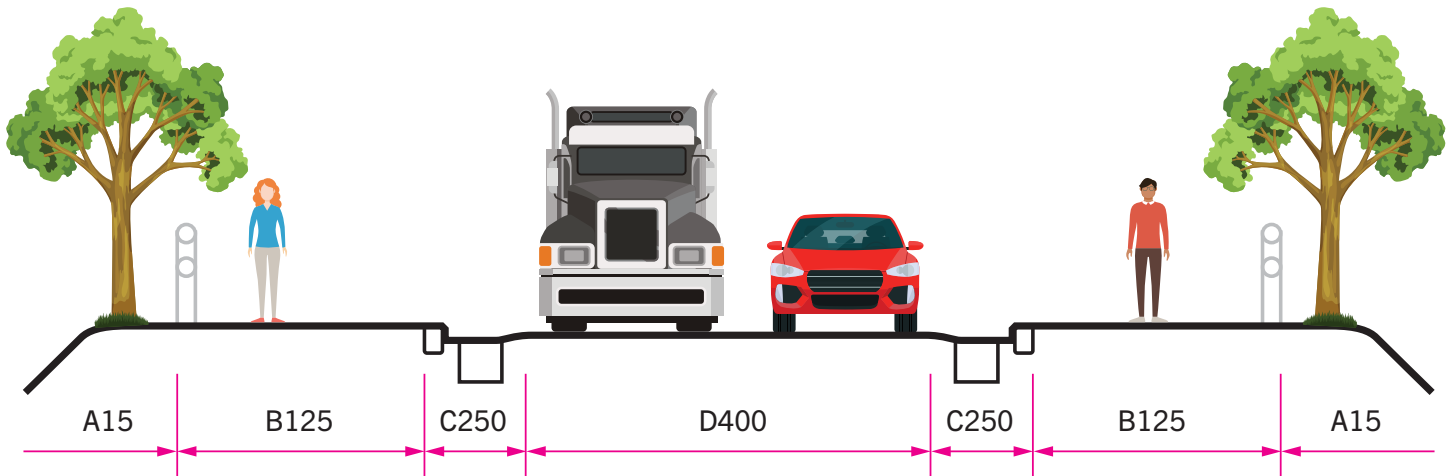


Figure 1 – Places of Installation

TABLE 1 – EN124 Classification in the context of intended use

BS EN 124 Minimum Class	Installation Area	BS EN 124 Test Load	Service Load
A15	For use in pedestrian areas where vehicles have no access	15kN (1.5 tonnes)	5.0 kN (0.5 tonnes)
B125	For use in car parks & pedestrian areas where infrequent vehicle access is likely (including driveways)	125kN (12.5 tonnes)	41.7 kN (4.2 tonnes)
C250	For access covers & gully gratings in areas of slow moving traffic; also for gully gratings in certain carriageway areas NOTE: Use D400 in high load areas where heavy vehicles are braking, accelerating or turning	250kN (25 tonnes)	83.3 kN (8.3 tonnes)
D400	For use in carriageways of roads, hard shoulders, and parking areas, for all types of road vehicles	400kN (40 tonnes)	33 kN (13.3 tonnes)

Best Practices

- Understand the difference between **Test Load** and **Service Load**:
 - The *Test Load* specified for access covers (such as 250 kN or 400 kN) represents the maximum load applied during standardized testing to determine the product's ultimate strength. The *Test Load* has a built-in safety factor (typically 3x) which is well above the maximum recommended *Service Load*.

IMPORTANT: Always select covers based on the *expected Service Loads*, *not the higher Test Loads*, to ensure long-term safety and performance.
- Other factors should be considered in the cover selection criteria:
 - Impact Load effects (related to vehicle speed)
 - Dynamic loads (e.g., braking, accelerating, turning)
 - In some cases, the load exerted through a single wheel when braking and/ or turning can be 3 to 4 times greater than the vehicle's static mass.
- Covers should evenly transfer the load onto the frame; therefore, it is important to maintain the area around the cover free from debris.

Recommended Locations – Class D400 Access Covers

- Notice location of access covers in relation to traffic flow (see Figure 2).
- Access covers in locations where truck wheels travel will bear more stress.



Figure 2 – Access covers in consideration of traffic flow

TABLE 2 – Product Options – Material for all products is Advanced fiberglass composite

Model Number	EN124 Class	Central DIP	Clear Opening Diameter (mm)	Weight (kg)	Watertight
PCR090	C250	—	900	31	✓
PCR090-DIP	C250	✓	900	31	✓
PCR106	C250	—	1060	40	✓
PCR106-DIP	C250	✓	1060	40	✓
PDR090	D400	—	900	46	✓
PDR106-1	D400	—	1060	52	✓
PDR106-1-DIP	D400	✓	1060	52	✓