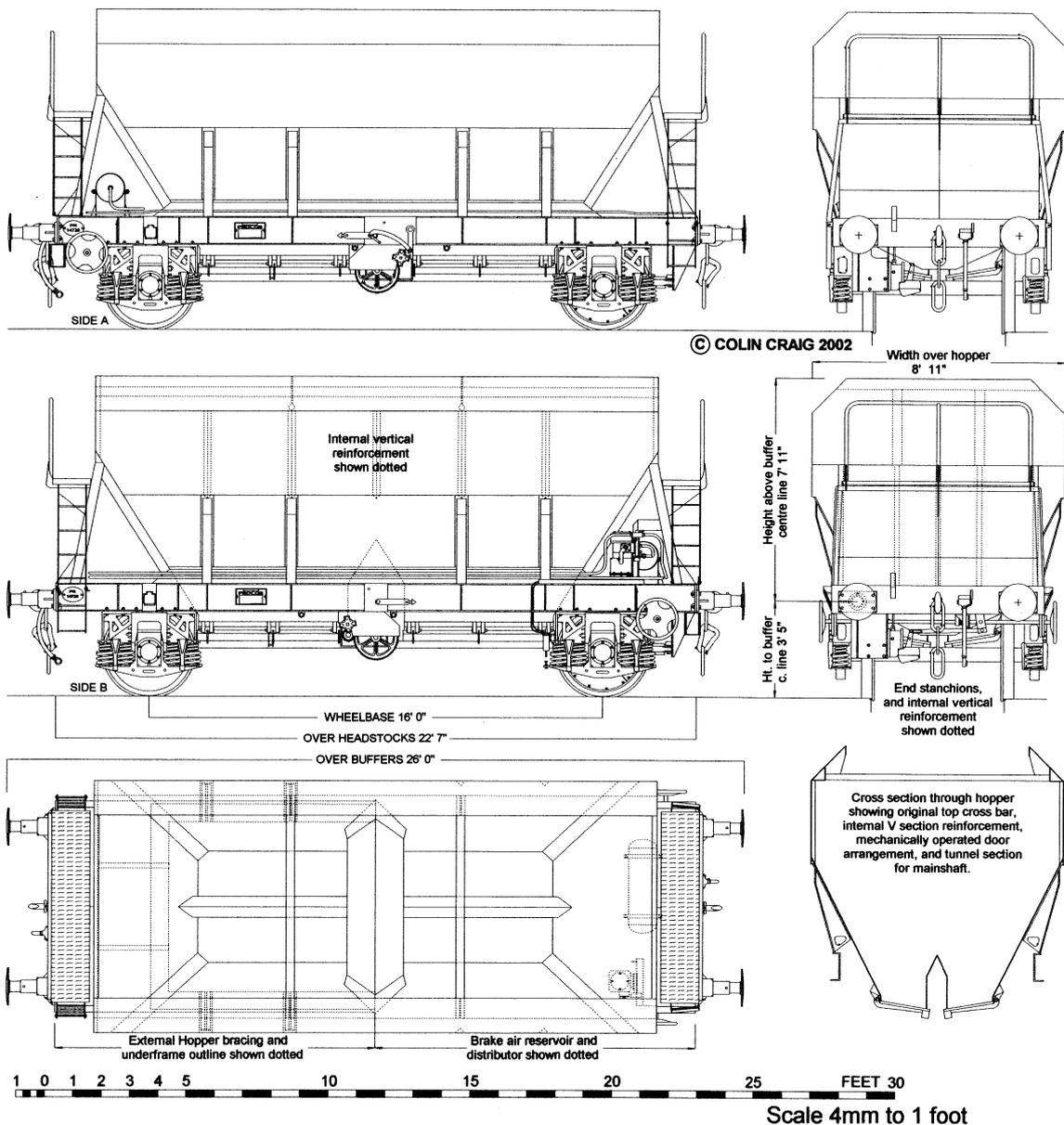


**PGA Design Code PG013B PR14721 - PR14749**



Drawings performed on CAD by Colin Craig, using principal available dimensional data, measurements and photographs by Colin Craig, and photographs by Phil Eames and Huw Millington.

Notes: Built by Procor, Wakefield 1978-79.

This has the "high" version of a basic hopper shape common to design codes PG013A - E, and 015A.

In other respects, this design is identical to PA 013A. The external side vertical support struts have outer facings. Internal reinforcement is with V section on the vertical sides and rectangular section on the vertical ends. There were two strengthening bars bridging the top opening; in use these rapidly became deformed, and most were subsequently removed. ESC suspension was fitted, with disc brakes on two wheels, positioned on diagonally opposed corners. The wheel operated handbrake is connected to a single calliper. The handbrake wheels are offset horizontally with a gearbox for directional control. Buffers are Oleo stepped shank with 16" heads

The outer end stanchions are kicked out at the bottom with covers to deflect any spillages and provide protection for the air tank and brake distributor.

The end platforms have one large central bracket, the ladders providing support for the outer ends. The ladders at the handbrake wheel end are shorter and are twisted slightly towards the headstock. The long ladders, and the footstep at the brakewheel end have only one step below the solebar.

The gears operating the bottom door mechanism have only partial protection covers; this was later modified on some wagons.