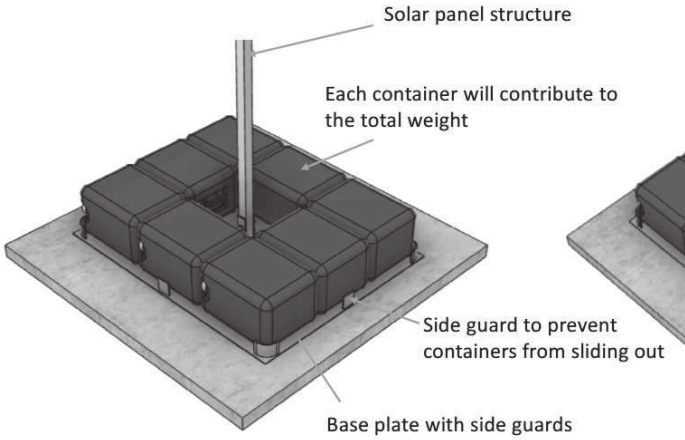


FIG. 1A

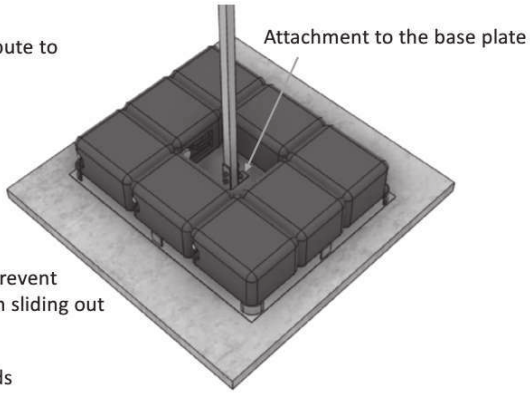


FIG. 1B

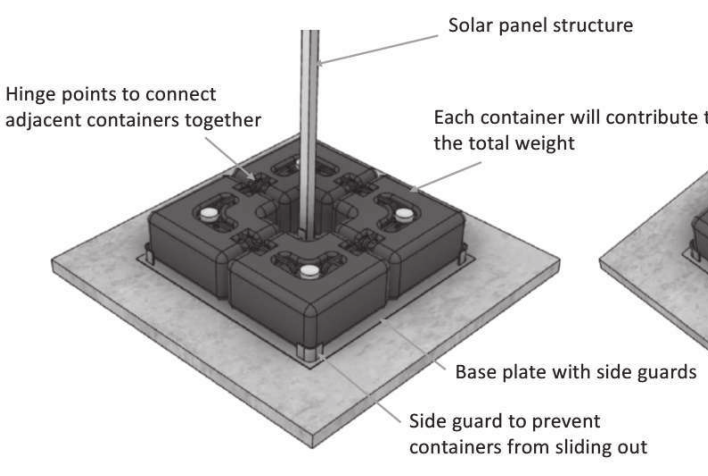


FIG. 2A

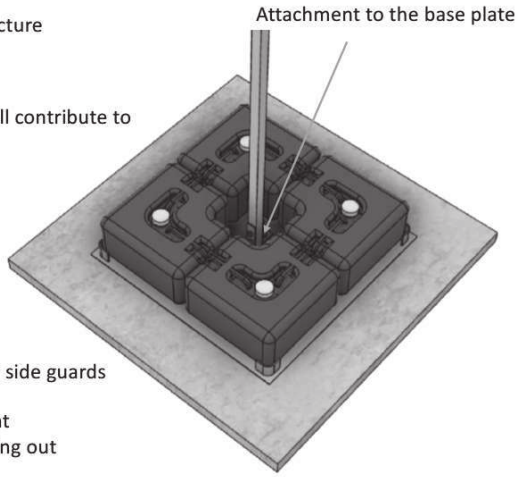


FIG. 2B

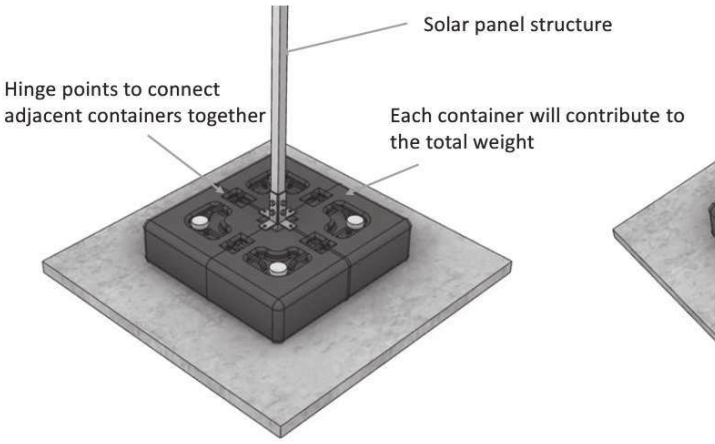


Fig. 3A

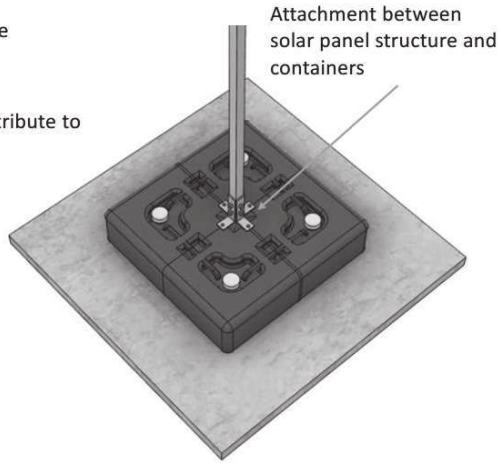


FIG. 3B

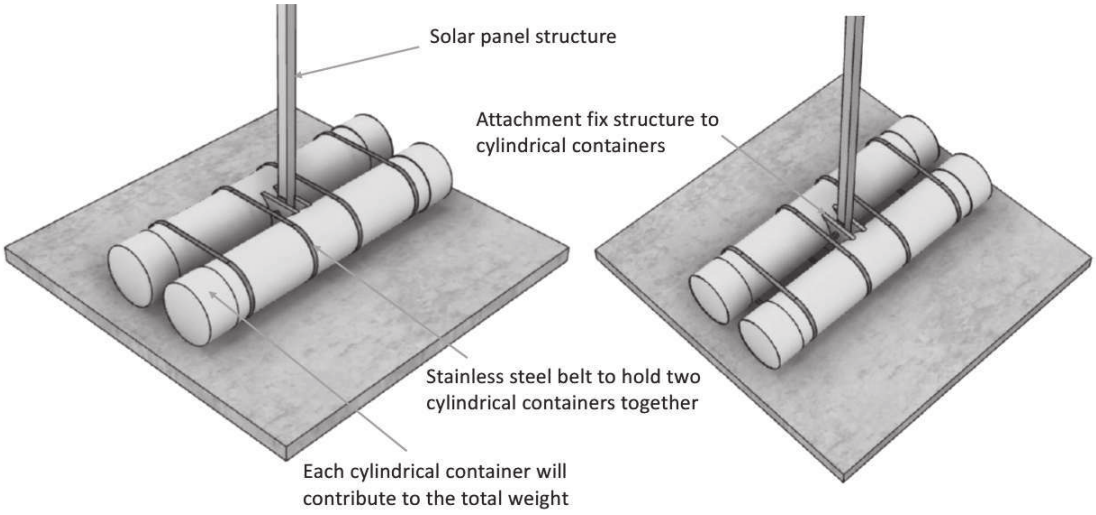


Fig. 4A

FIG. 4B

Conventional Concrete Ballast

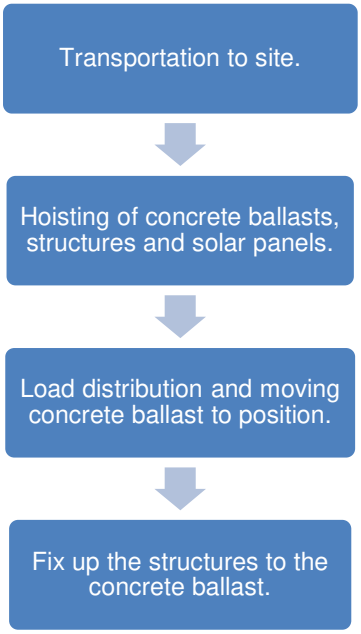


Fig. 5A

Proposed Hybrid Ballast

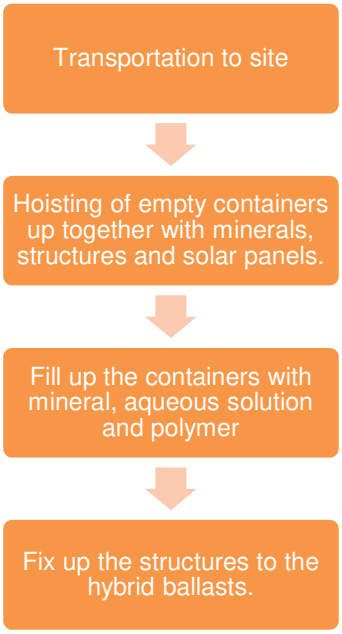


FIG. 5B

Conventional Concrete Ballast

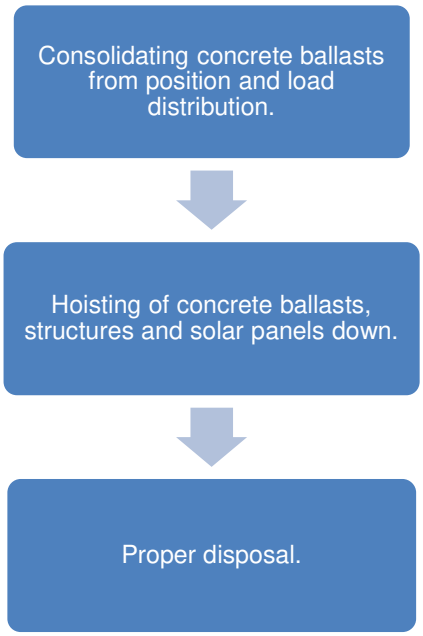


Fig. 6A

Proposed Hybrid Ballast

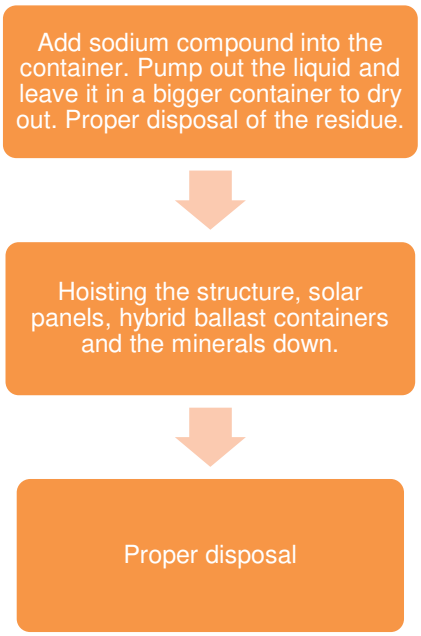


FIG. 6B