



Casey Enterprise

Precast Concrete - Livestock Slats

050 – CPR - 240

10/MH/SB/CE

3.200m Long Heavy Duty Manhole Slab Centre Ope

1. Company Name:

Casey Enterprises
Coolishall, Gorey
Co. Wexford

2. Type of floor slats:

Heavy Duty Cattle Slat

General Details:

3.200m Long Heavy Duty Manhole Slab	
Nominal slat length (m)	3.200m
Nominal width of cover of slat (m)	1.500m
Nominal slat depth (m)	190mm
Slat use (i.e: Cattle, calves, dry sows, sheep etc)	Cattle A3 Heavy Duty
Compressive strength	C40/50
Ultimate tensile and tensile yield	$f_{tk} = 540\text{N/mm}^2$
Strength (of steel)	$f_{yk} = 500\text{N/mm}^2$

Details of reinforcement:

Main ribs, Depth of concrete cover:	
Top steel (top cover) (mm)	40
Bottom steel (bottom cover) (mm)	40
<u>Main Beams side cover</u>	
Top Steel (mm)	60
Bottom steel (mm)	55
<u>Reinforcement in Slat</u>	
Top steel – longitudinal Beams	4 x 12hy in each beam.
Bottom Steel – Longitudinal steel	4 x 16hy in each beam.
Top steel – transverse connections	12hy
Bottom steel – transverse connections	12hy

3- Code and Standards:

EN 12737:2004+A1: 2007 - Precast concrete products - Floor slats for livestock

EN 206-1:2002 - Concrete – Part 1: Specification, performance, production and conformity

EN 197-1:2001 Composition, specification conformity criteria for common cements

EN 12620 Aggregates for concrete

EN 934 Admixtures for concrete, mortar and grout

EN 1008:2002 Mixing water for concrete

Caey Enterprises supply cattle slats products that are, as far as reasonably possible, safe to transport, store, handle and use.

Signed for and on behalf of the manufacturer by:

Design Engineer: Ali Salih MSc. C. Eng. PGradDip. MIEI

Gorey, Co. Wexford

(July 2015)