



## Casey Enterprise

### Precast Concrete - Livestock Slats

**050 – CPR - 240**

**11/MH/SB/EN**

**3.505m Long Heavy Duty Manhole Slab End Ope**

**1. Company Name:**

Casey Enterprises  
Coolishall, Gorey  
Co. Wexford

**2. Type of floor slats:**

Heavy Duty Cattle Slat

**General Details:**

<b>3.505m Long Heavy Duty Manhole Slab</b>	
Nominal slat length (m)	3.505m
Nominal width of cover of slat (m)	1.500m
Nominal slat depth (m)	190mm
Slat use for:	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:**

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

Gorey, Co. Wexford

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