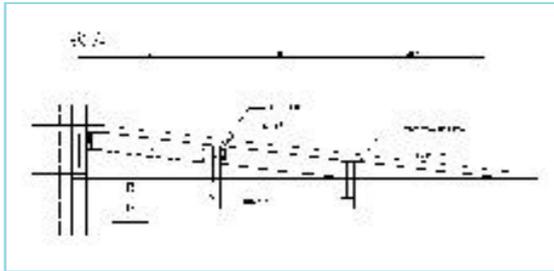


2.2.2

Pre-Flex Beam

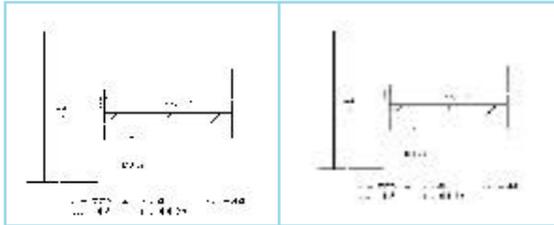
가



< 2> PRE-FLEX BEAM

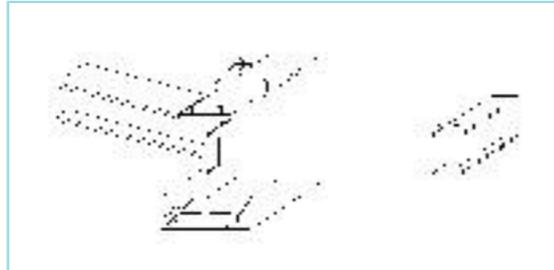
Opening 1/2 Pre-Flex Beam 가

가 Opening Opening 3.5 가



< 3> PRE-FLEX BEAM OPENING

Flex Beam 가 Pre-Flex Beam 가 Pre-Flex Beam



< 4>

Pre-Flex Beam PIN SLAB 가 SLAB 가

2.2.3 가

Pre-Flex Beam 가 () 가 가 가 가

Pre-Flex Beam 1 2 20 ~ 30m

20 ~ 30ton

가 가 가

3.

3.1 SRC

3.1.1 SRC

Pre-Flex Beam

가 SRC

3.1.2 SRC

Beam

가 SRC가 Pre-Flex

Opening SRC

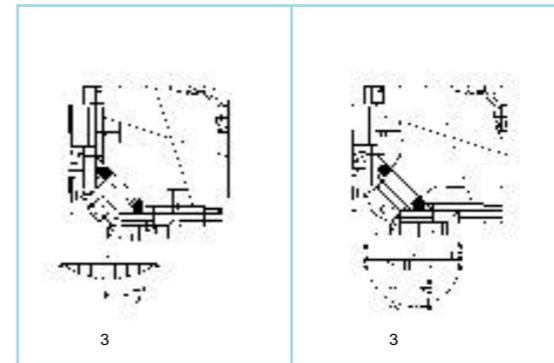
3.2 Built-Up Beam

3.2.1 System Pre-Flex Beam

GIRDER 30m

Pre-Flex Beam Built-Up Beam

가



< 5>

PRE-FLEX BEAM

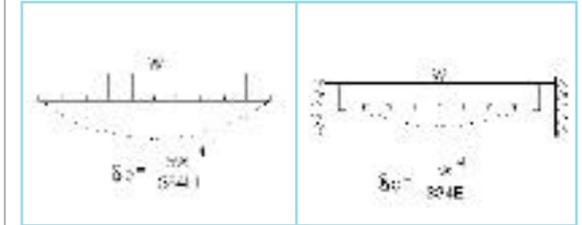
3.2.2 Pre-Flex Beam

Pre-Flex Beam 가

PIN (= 5wl⁴/384EI) Built-Up

Beam FIX

1/5 = wl⁴/384EI



< 6>

SLAB 50% STUD BOLT 13 22 100% 가 가 Built-Up Beam Opening 가 3 가

3.3 Built-Up Beam

3.3.1 Built-Up Beam

가 FIX 가

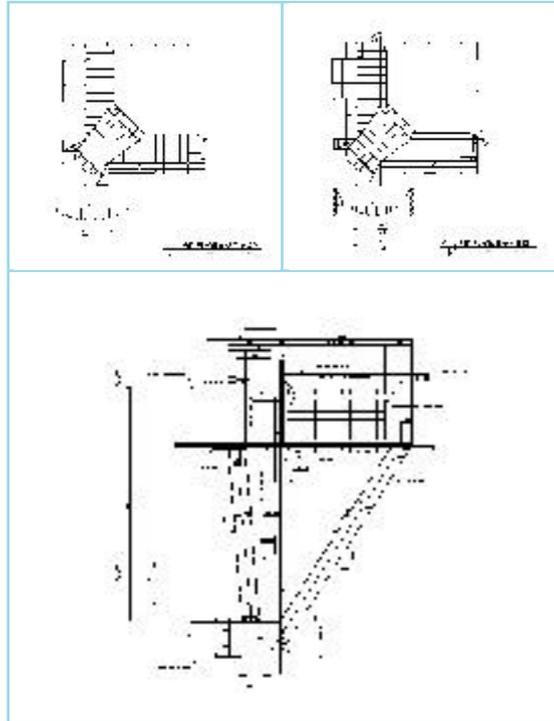
Pre-Flex Beam

Bracing Opening

3.3.2 MOMENT

PIN FIX (M = wl²/12)가

BRACING 27m



< 7 >

(BRACING COVER) 가

3.3.3

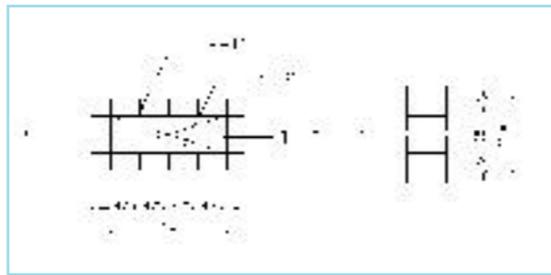
Pre-Flex Beam

< 1 > Camber
Camber가 가

f=5.1Hz 2.5×10⁴cm
가 1.2×10⁴cm

가 EUROCODE 3 AISC

3.3.4 OPENING



< 8 > OPENING

Opening

가
< 8 >

4.

4.1 V.E

4.1.1

Pre-Flex Beam

V.E 가

Beam

Pre-Flex

V.E

4.1.2 V.E

V.E

V.E

가

V.E

V.E

V.E

4.2 가

4.2.1 가

	1	241,900,000	241,900,000	279,000,000	115.3%	
	TON 167	17,895,000	18,368,000	35,424,000	192.8%	
		259,795,000	260,268,000	314,424,000	120.8%	

4.2.2 가

Pre-Flex Beam

120%

99% Pre-Flex
Beam Built-up Beam 112

V.E	V.E 50%	38,684	
		54,156	
		20,000	
		112,840	

4.3

4.3.1

PIN

FIX

SLAB

Pre-Flex Beam

Built-up Beam

4.3.2

Pre-Flex Beam

(300ton

)

Built-up Beam

가

TOWER CRANE

가

4.4

Pre-Flex Beam

V.E

V.E

가

V.E

가

V.E