

,

,

,

. . .

,

,

3

“

’ ”

,

8

09.03.04 .

2005

656.8:004.9

2004/05 .

—

’
.

.

-
-

’

.

4

11. 12. 2003

,

3

: , ().

:

, .

1.

) , - (, -

-

,

.

,

.

,

.

,

,

.

(

- R ,

- R ,

- R),

,

,

3R , 4Re

,

, -

.

.

,

(

-

).

(, , .).

,

,

,

.

$$Q = HR,$$

$$(6.2) \quad n \quad (6.1) \quad m$$

$$R_{mt} \quad R_{mc} \\ R_{et} \quad R_{ec}$$

$$\begin{aligned} Q &= 9R_{mt} * n \quad (./.); \\ Q &= 2,5 R_{et} * n \quad (./.); \\ Q &= (1R_{mt} + 0,5R_{et}) * n \quad (./.). \end{aligned}$$

$$\begin{aligned} Q &= 9R_{mc} * m \quad (./.); \\ Q &= 2,5 R_{ec} * m \quad (./.); \\ Q &= (1R_{mc} + 0,5R_{ec}) * m \quad (./.). \end{aligned}$$

$$\begin{aligned} Q &= \sum Q \quad (./.); \\ Q &= \sum Q \quad (./.); \end{aligned}$$

$$Q = \sum Q \quad (\quad / \quad);$$

$$Q = Q + Q + Q \quad (\quad / \quad).$$

2. ()

2.1. [1, 2, 3].

2.2. -

2.3. -

2.4. Delphi 5.

3.

3.1. -

3.2. Q , Q , Q , Q .

3.3. -

3.4.

3.5.

3.6.

4.

4.1.

4.2.

()

4.3.

4.4.

3,2...3,5.

4.5.

4.6.

5.

3

5.1.

5.2.

Project1.exe.

5.3.

5.4.

5.5.

5.6.

-3

5.7.

5.8.

5.9.

5.10.

5.11.

-650

5.12.

5.13.

5.14.

5.15.

5.16.

5.17.

6.

6.1.

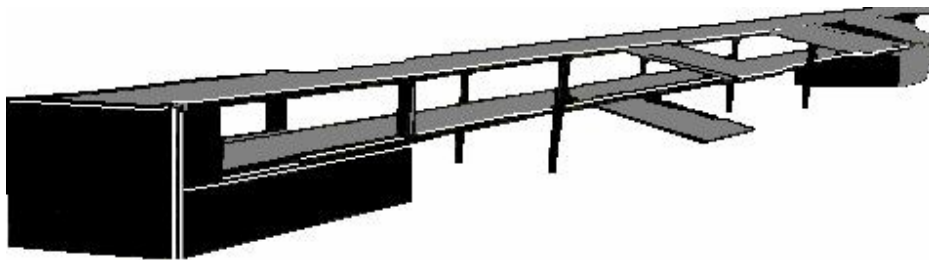
6.2.

c

6.1

(. 6.1),
 (400×270×200)

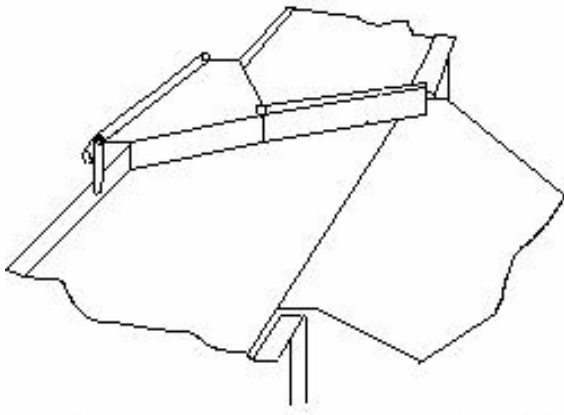
1. 30 () - 305;
 - 30 () - 300.
2. / - 0,6.
3. : - 25, - 165.
4. . - 0 - 12.
5. - 0,6 - 2,8.
6. - 220 - 380 .
 (, L).



6.1 -

6.2

c



6.2 –

. 6.2

),

800

650

1000

1. , 1981. – 255 .
2. / , 1984. – 196 .
3. 2. / , , , 1998. – 128 .
4. , 2004. – 40 .
5. , 2004. – 263 .