



**METRO NORTH
ORAL HEARING**

**TN028 OCB Prelim Geological
Assessment & Indicative Primary
Lining Design
Mined Sections _ Part10**

Interaction Diagram for Reinforced Concrete Design

According to BS 8110, Part 1:1997 & Part 3:1985

Input Data:

TABLE C-19(s)

RIGHT TUNNEL

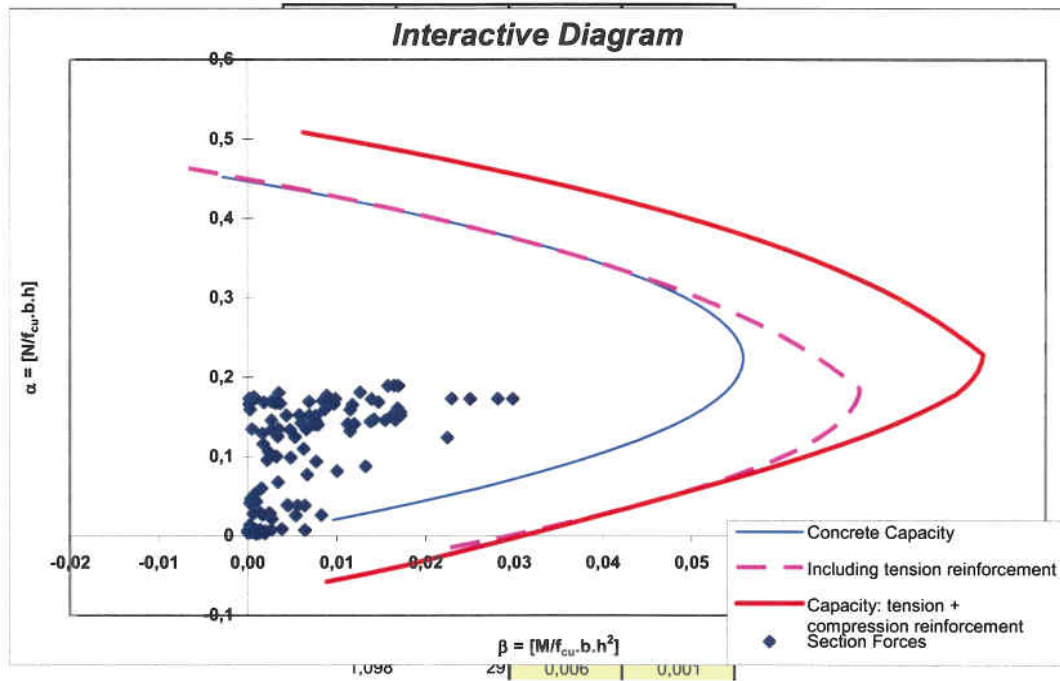
SHOTCRETE 200mm + LAG Type B3 (Romtech) @ 2000mm

$h = 200$ mm
 $b = 1000$ mm
 $f_{cu} = 25$ N/mm²
 $f_y = 460$ N/mm²
 $E_s = 210000$ kN/mm²

Intrados:	cover	25	mm
	diameter	0	mm
	spacing		mm
	$A_{s1} =$	402	mm ²
Extrados:	cover	35	mm
	diameter	0	mm
	spacing		mm
	$A_{s2} =$	490	mm ²

Partial material factors:

$\gamma_{mc} = 1,5$ concrete
 $\gamma_{ms} = 1,05$ reinforcement



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