

Bearings

EN 1337 – 3: 2005 (E)

Bridge Bearing Load Table Schedule

Bridge Name							
Type of Bearing							
Bearing ID No:							
Bearing Position:							
Top seating section: Concrete			Bottom seating section: Concrete				
Steel			Steel				
Allowable Average Contact Pressure N/mm ²	Upper face	SLS	$\delta m =$				
		ULS	$\delta m =$				
	Lower face	SLS	$\delta m =$				
		ULS	$\delta m =$				
Design Loads KN	ULS	Vertical	Max	F_Z, d=			
			Perm	F_Z, d=			
			Min	F_Z, d=			
			Assoc	vY, d/V x, d=			
			Max	vY, d/V x, d=			
			Assoc	F_Z, d min=			
	Transverse	F_Y, d=					
	Longitudinal	F_X, d=					
	SLS	Vertical	Max	F_Z, K=			
			Min	F_Z, K=			
		Transverse	F_Y, K=				
		Longitudinal	F_X, K=				
Translation mm	ULS	Transverse	vY, d=				
		Longitudinal	v_x, d=				
	SLS	Transverse	vY, K=				
		Longitudinal	v_x, K=				
Rotation	ULS	Transverse	α_Y, d=				
		Longitudinal	α_x, d=				
Maximum Bearing Dimensions mm	Transverse	b=					
	Longitudinal	a=					
	Height	T_b=					
Type of fixing Required	Upper Face						
	Lower Face						

Please note the following before proceeding:

ULS: Ultimate limit state

SLS: Serviceability limit state

Following information is required:

1. Maximum translation **V_{Yd}** and **V_{Xd}** associated to min **F_{Zd}**
2. Maximum translation **V_{Yd}** and **V_{Xd}** associated to min **F_{Zd}**
3. Minimum design load **F_{Z, d min}** associated to maximum translation **V_{y, d}** and **V_{x, d}**

$\delta m =$ mean compression stress from **F_{Z, d min}**,