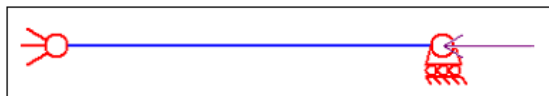


<b>TEST SCHEDULE R 4</b>	<b>EN 1993-1-1: 2005 (EUROCODE 3)</b>	<b>Sargon ©, Cescoplus ©</b>
<b>RESISTANCE</b>	<b>COMPRESSION</b>	<b>EC3.RES.NN.001</b>



**Program:** WEURO © version October 2007 for Sargon and Cescoplus  
**Keywords:** EN 1993, Eurocode 3, example, validation, benchmark, reliability, quality control, error measure. **Parole chiave:** Eurocodice 3, esempio, validazione, test ,affidabilità, controllo di qualità, misura dell'errore  
**Tv=**exploitation target value, **Cv=**exploitation computed value  
**Authors:** Ing. Marco Croci, Ing. Paolo Rugarli

<b>BEAM</b>		
Length [mm]	Left end	Right end
1000	HINGE	SIMPLY SUPPORTED

<b>LOAD</b>		
Type	Value	Point of application
COMPRESSION	N=1.000.000N	RIGHT END

<b>MATERIAL</b>	<b>S275</b>					
$f_y$ [N/mm <sup>2</sup> ]	$f_u$ [N/mm <sup>2</sup> ]	E [N/mm <sup>2</sup> ]	$\nu$	$\gamma_{M0}$	$\gamma_{M1}$	$\gamma_{M2}$
275	430	2,10E+05	0,3	1,1	1,1	1,25

<b>CROSS SECTION</b>	<b>2 UPH 140 10</b>		<b>CLASS: N' →1</b>			
A [mm <sup>2</sup> ]	$J_2$ [mm <sup>4</sup> ]	$J_3$ [mm <sup>4</sup> ]	$J_t$ [mm <sup>4</sup> ]	$W_2$ [mm <sup>3</sup> ]	$W_3$ [mm <sup>3</sup> ]	
4073	1,209E+07	3,323E+06	1,051E+05	1,728e+05	5,112e+04	
$W_{pl2}$ [mm <sup>3</sup> ]	$W_{pl3}$ [mm <sup>3</sup> ]	$i_2$ [mm]	$i_3$ [mm]	$i_t$ [mm]	d	
1,728e+05	9,188E+04	54,49	28,56	17,32	10	
h	b	$t_w$	$t_f$	r	r1	
140	60	7	10	10	5	

<b>OTHER DATA</b>					

**TARGET VALUES BASED ON PRELIMINAR COMPUTATIONS**

$$N_{c,Rd} = A \cdot f_y / \gamma_{M0}$$

$T_v = N / N_{c,Rd}$
9,821E-01

**CHECKER'S RESULTS (COMPUTED VALUES) AND COMPARISON WITH THE TARGET**

Cv	(Cv-Tv)/Tv
9,821E-01	<b>0,000E+00</b>