



Test Scenario Document for Static Calculation

Project Name: Pfeifer-Suite-Hybridbeam
Hybridbeam project name: 0986_Neubau Logitiskzentrum Warehouse_Unna
Position: U10
Tester Name: Pawel Wojtanowicz
Date: 26.02.25

Instructions

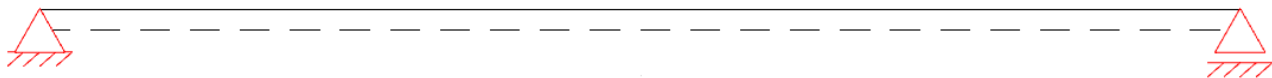
- 1. Follow each test step carefully.
- 2. Fill in the **Actual Result** column based on what happens.
- 3. Mark **Status** as  Pass or  Fail.
- 4. Add extra observations in the **Notes** section.
- 5. Attach screenshots if needed.

Common Data

Common data for for all tests mentioned in this test document are teaken from document: 0986_Neubau Logitiskzentrum Warehouse_Unna_STATIK BH_02-01-2025.pdf (see 'sources' folder).


The common data are as follows:

- static system:



- L = 6m
- self-weight loads: 3kN/m (mounting state / final state)
- HC plate loads: 26,83kN/m (mountig/final)
- mounting loads: 7,25kN/m (mounting)
- installations loads: 12,33kN/m (final)
- live loads: 19,58kN/m (final)

Test Cases

Test case ID	Test name	Description	Steps	Expected result	Actual result	Notes	Status
TC001	Bending moment - mounting state	Verification of the correctness of bending moment value in mounting state	1. Open app 2. Enter valid data, see: common data above 3. Click calculate button 4. Extract	Mmax = 230,15kNm, Mmin = 134,23kNm (as in source file)	Mmax = 230,15kNm, Mmin = 134,23kNm	see: tc001-1	 Pass

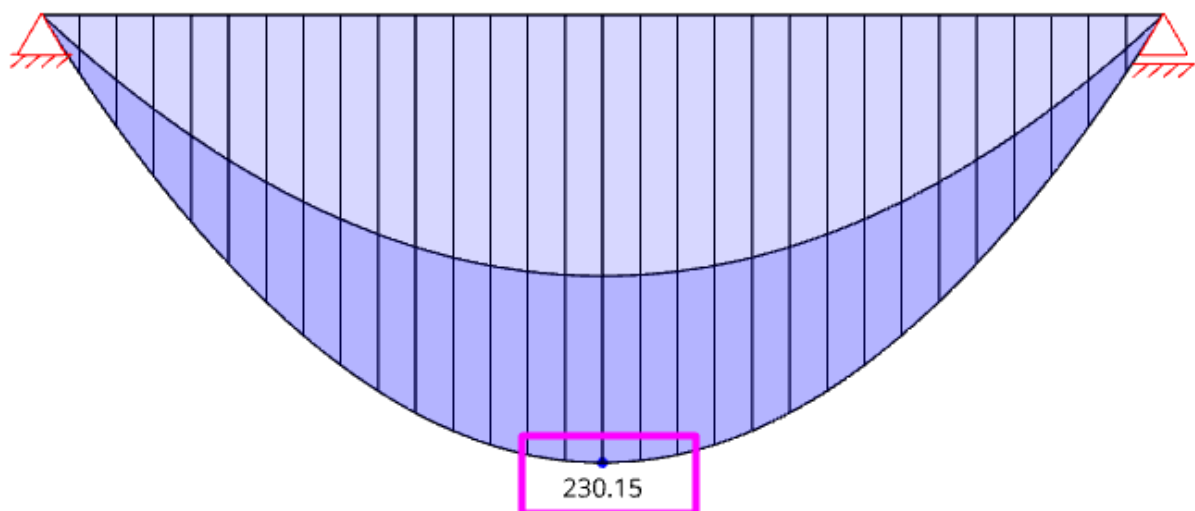
Test case ID	Test name	Description	Steps	Expected result	Actual result	Notes	Status
			the bending moment value				
TC002	Bending moment - final state	Verification of the correctness of bending moment value in final state	1. Open app 2. Enter valid data, see: common data above 3. Click calculate button 4. Extract the bending moment value	Mmax = 388,29kNm, Mmin = 189,72kNm (as in source file)	Mmax = 388,29kNm, Mmin = 189,72kNm	see: tc002-1	✓ Pass
TC003	Shear force - mounting state	Verification of the correctness of shear force value in mounting state	1. Open app 2. Enter valid data, see: common data above 3. Click calculate button 4. Extract the shear force value	Vmax = 153,44kN Vmin = 89,49kN (as in source file)	Vmax = 153,44kN Vmin = 89,49kN	see: tc003-1	✓ Pass
TC004	Shear force - final state	Verification of the correctness of shear force value in final state	1. Open app 2. Enter valid data, see: common data above 3. Click calculate button 4. Extract the shear force value	Vmax = 258,86kN Vmin = 126,5kN (as in source file)	Vmax = 258,86kN Vmin = 126,48kN	see: tc004-1	✓ Pass

Test case ID	Test name	Description	Steps	Expected result	Actual result	Notes	Status
TC005	Deformation - mounting state	Verification of the correctness of deformation value in mounting state	<ol style="list-style-type: none"> 1. Open app 2. Enter valid data, see: common data above 3. Click calculate button 4. Extract the deformation value 	wmax = 27,38mm (as in source file)	wmax = -4,16mm	see: tc005-1 value & graph direction - to discuss with @WojciechRadkiewicz first	✖ Fail

Screenshots

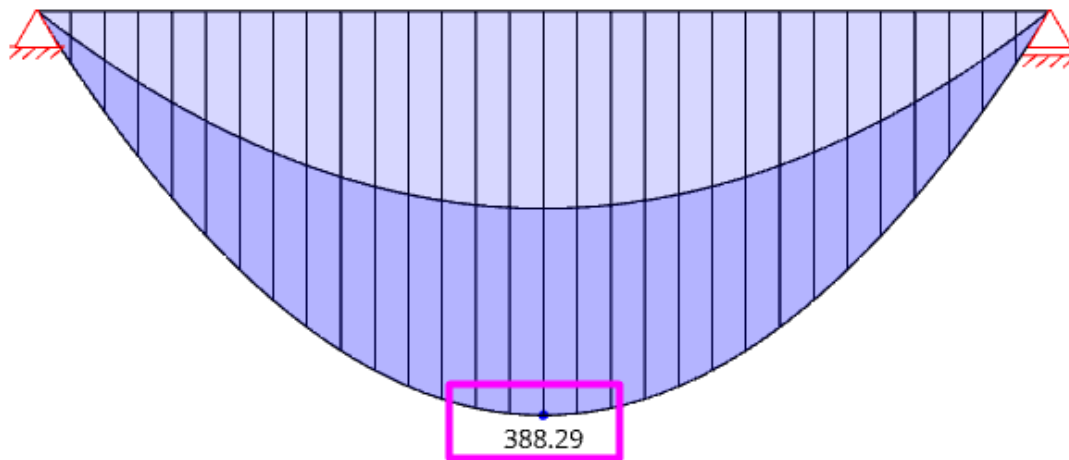
- tc001-1

	$M_{y,d,-}$ [kNm]	$M_{y,d,+}$ [kNm]	$V_{z,d,-}$ [kN]	$V_{z,d,+}$
	0.00	134.23	-89.49	
	0.00	183.17	-122.12	1
	0.00	138.96	-92.64	
	0.00	187.90	-125.27	1
	-0.00	176.49	-117.66	1
	0.00	225.43	-150.29	1
	0.00	181.22	-120.81	1
	-0.00	230.15	-153.44	1

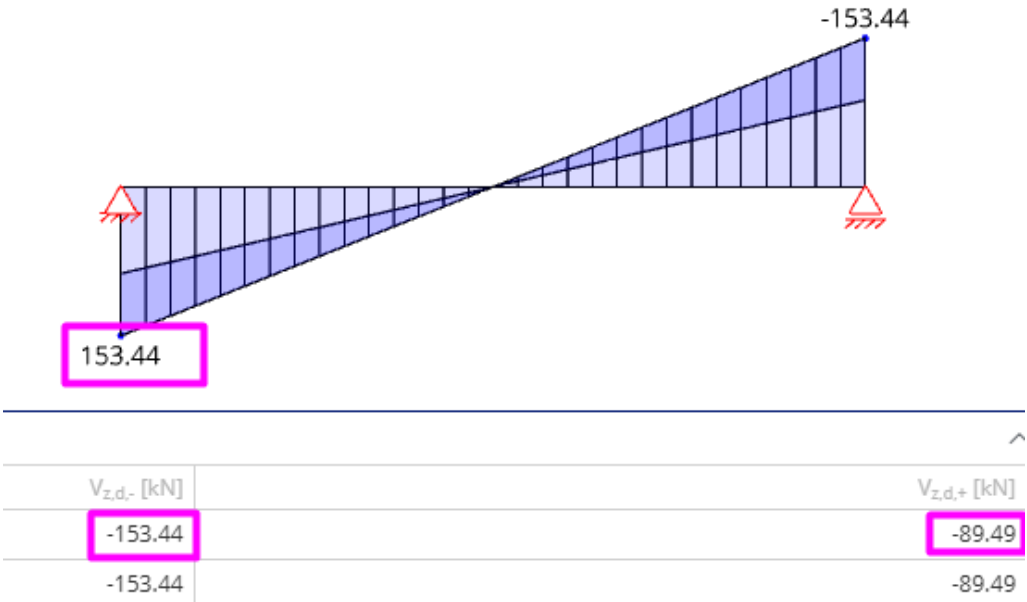


- tc002-1

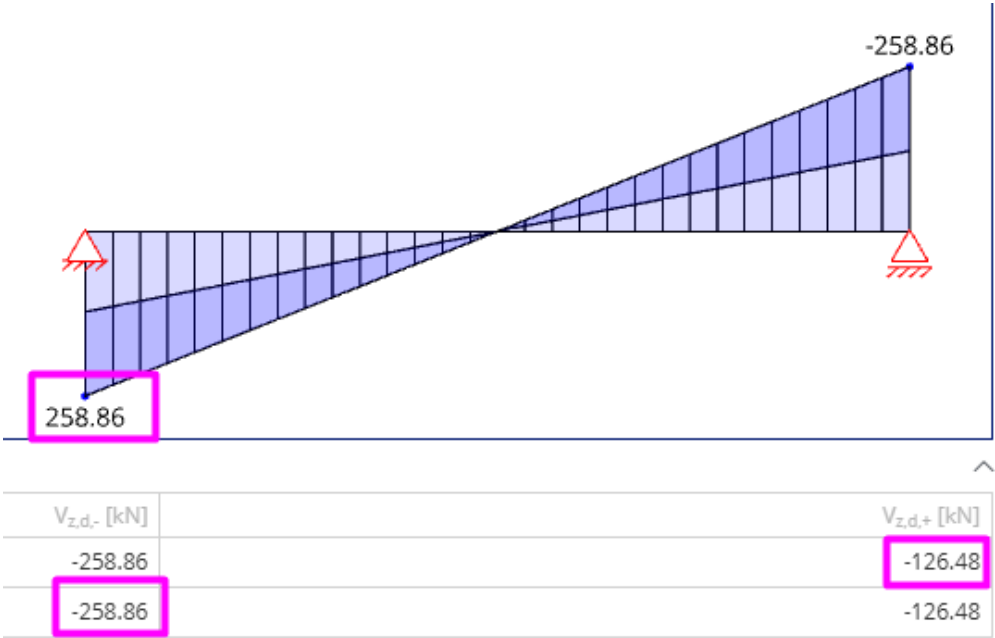
	$M_{y,d,-}$ [kNm]	$M_{y,d,+}$ [kNm]	$V_{z,d,-}$ [kN]	$V_{z,d,+}$ [kN]
	-0.00	189.72	-126.48	126.48
	-0.00	321.88	-214.59	214.59
	0.00	194.44	-129.63	129.63
	-0.00	326.61	-217.74	217.74
	0.00	231.98	-154.65	154.65
	-0.00	364.14	-242.76	242.76
	0.00	209.14	-139.43	139.43
	0.00	341.30	-227.54	227.54
	0.00	251.40	-167.60	167.60
	0.00	383.56	-255.71	255.71
	0.00	236.70	-157.80	157.80
	-0.00	368.87	-245.91	245.91
	0.00	213.86	-142.58	142.58
	0.00	346.03	-230.69	230.69
	0.00	256.12	-170.75	170.75
	0.00	388.29	-258.86	258.86



- tc003-1

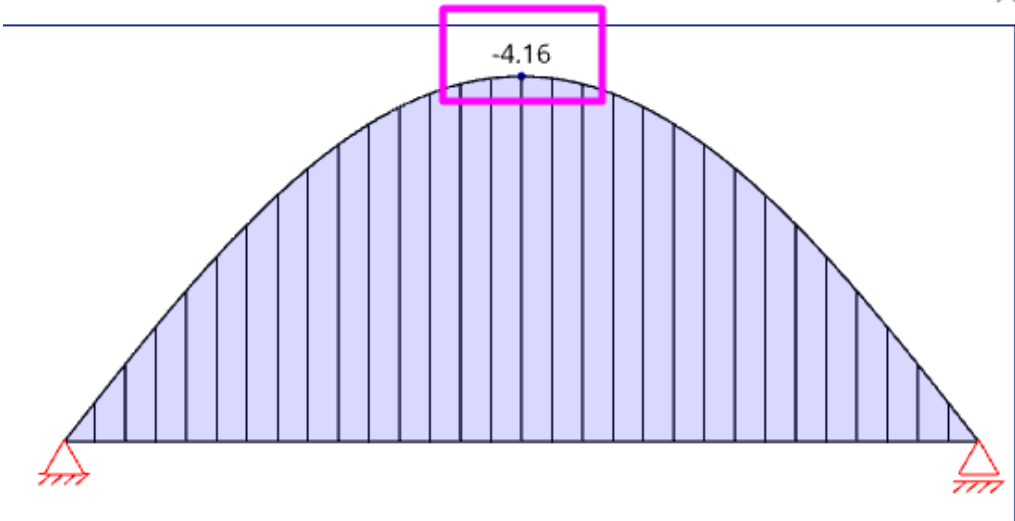


- tc004-1



- tc005-1

$R_{y,d,-}$ [°]	$R_{y,d,+}$ [°]	$D_{z,d,-}$ [mm]	$D_{z,d,+}$ [mm]
-0.13	0.13	-4.16	0.00



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