Job Information

	Engineer	Checked	Approved
Name:			
Date:	26-Jul-25		

Comments:	
Structure Type:	SPACE FRAME

Geometry

Entity Type	Count	Highest
Nodes	2	2
Analytical Members	1	1

Load Cases

Load Case Type	Count
Primary	1

Included in this printout are data for:

All	The Whole Structure

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Load Case Table

Included in this printout are results for load cases:

L/C	Type	Name
1	Primary	DL

Beams

Beam	Node A	Node B	Length (m)	Property	β (rad)
1	1	2	8.000	1	0.000

Sections

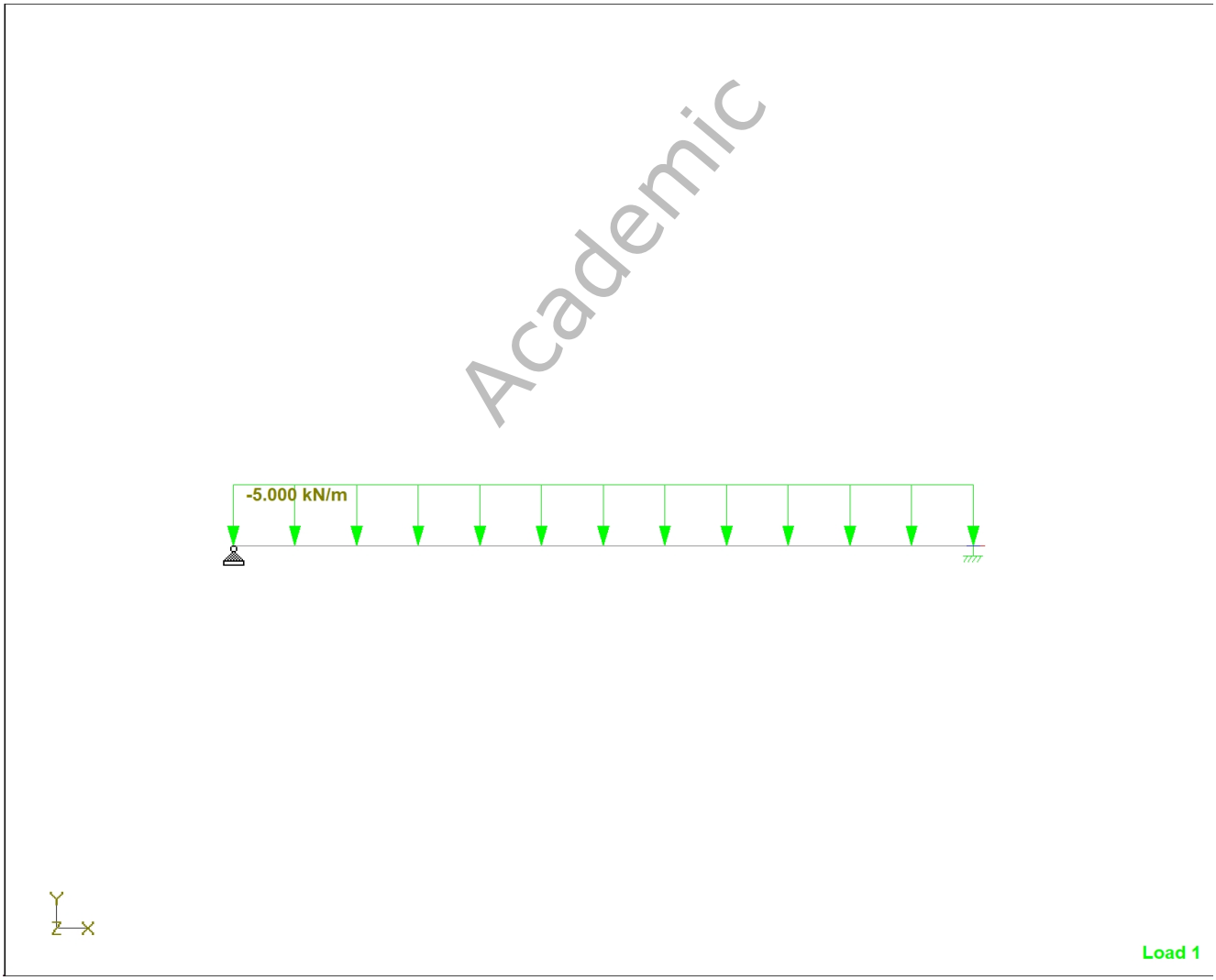
Prop	Name	Area (cm2)	Iyy (cm4)	Izz (cm4)	J (cm4)	Material	Source
1	Rect 0.30x0.30	900.000	67,500.008	67,500.008	113,906.266	CONCRETE	Parametric

Materials

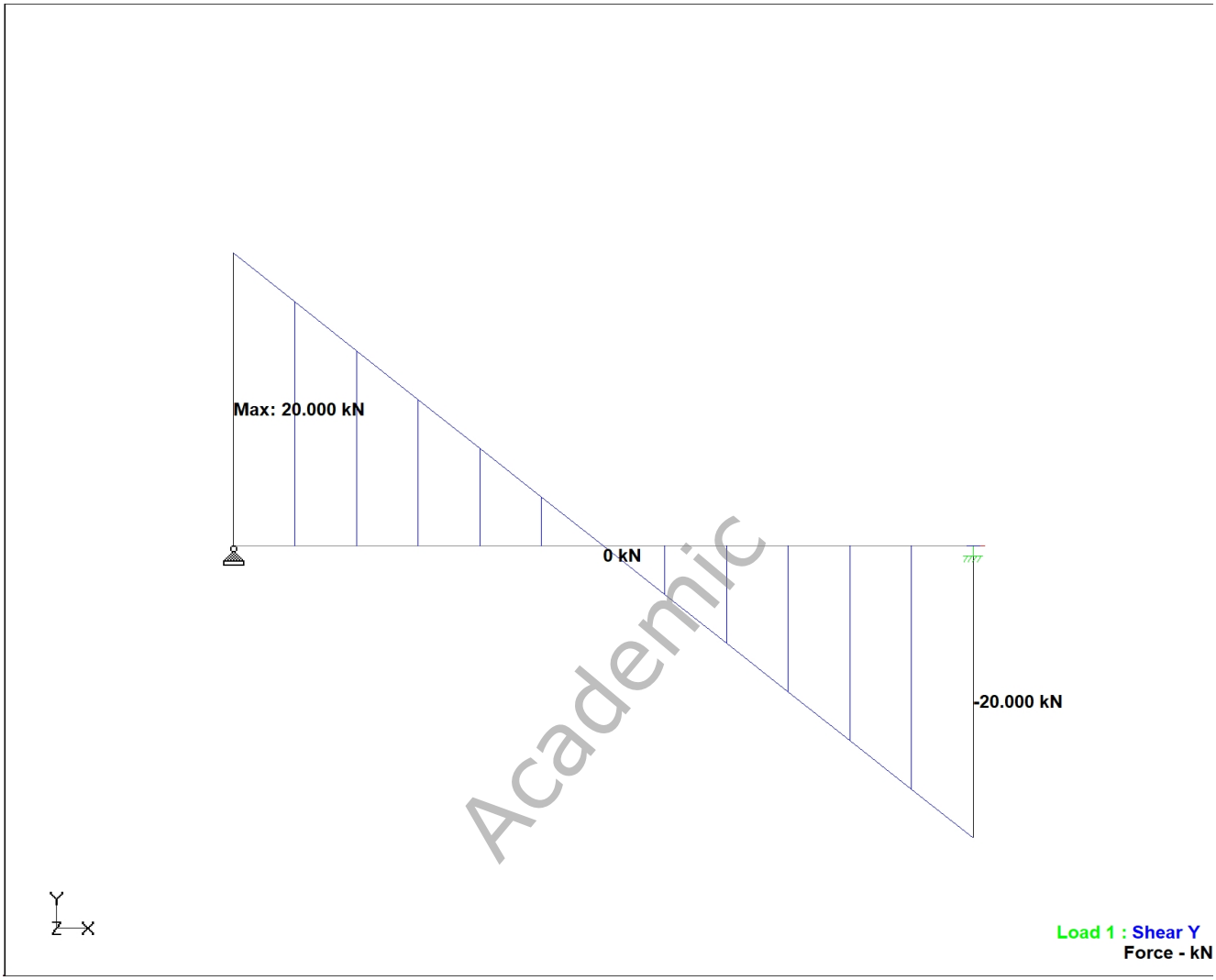
Mat	Name	E (kN/mm2)	v	Density (kg/m3)	α (/°C)
1	CONCRETE	21.719	0.170	2,402.615	0.000

Quantities By Section

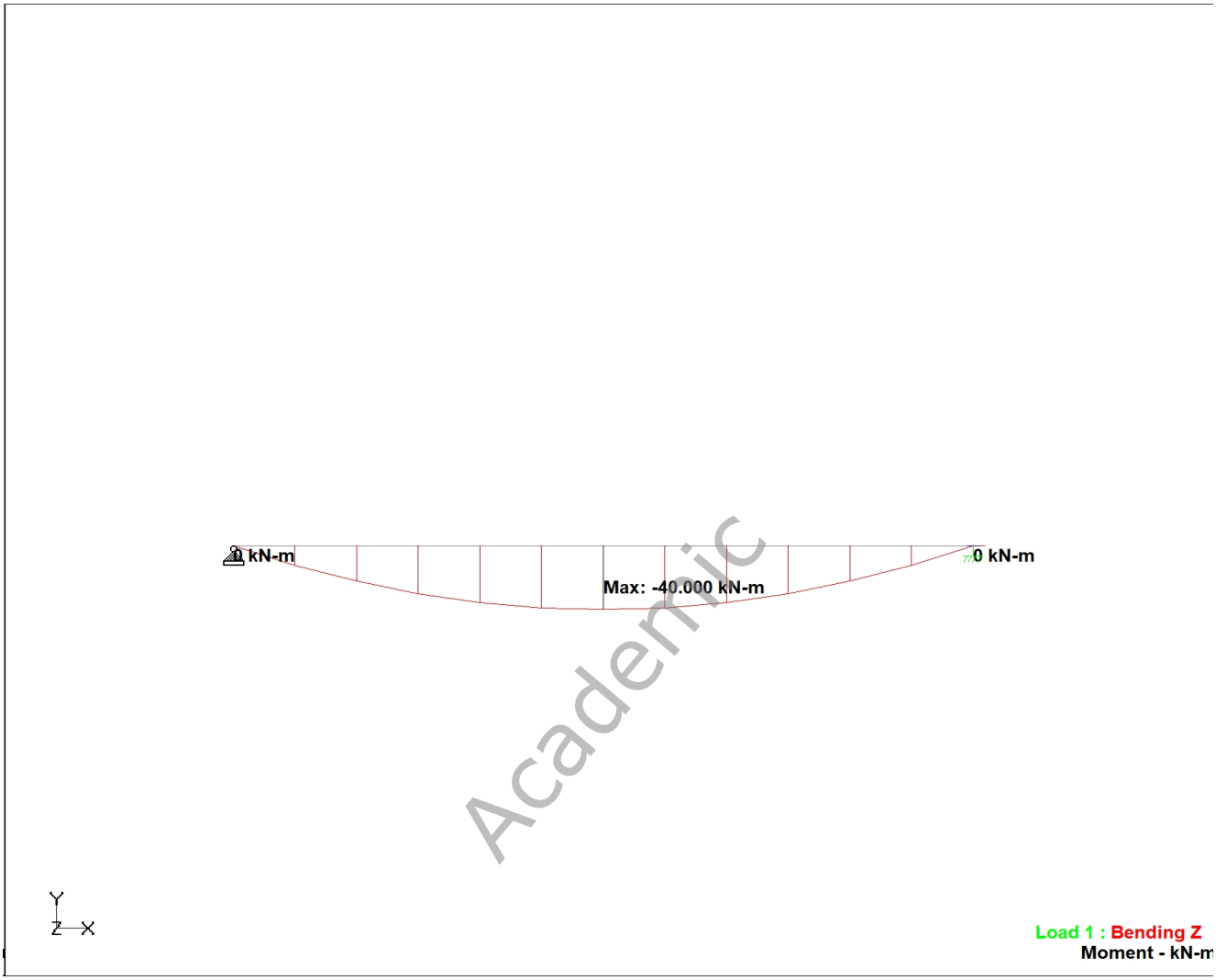
Ref	Section	Material	Weight (kN)
1	Rect 0.30x0.30	CONCRETE	16.964



Loading condition



SFD



BMD

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN-m/deg)	rY (kN-m/deg)	rZ (kN-m/deg)
1	Fixed	Fixed	Fixed	-	-	-
2	-	Fixed	Fixed	Fixed	Fixed	-

Beam Loads

L/C	Beam	Type	Direction	Fa	Da (m)	Fb	Db (m)	Ecc. (m)
1	1	UNI (kN/m)	GY	-5.000	0.000	0.000	0.000	0.000

Static Check

L/C		FX (kN)	FY (kN)	FZ (kN)	MX (kN-m)	MY (kN-m)	MZ (kN-m)
1	Loads	0.000	-40.000	0.000	0.000	0.000	-160.000
	Reactions	0.000	40.000	0.000	0.000	0.000	160.000
	Difference	0.000	0.000	0.000	0.000	0.000	0.000

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
1	1	0.000	0.000	0.000	0.000	0.000	0.000	-0.007
2	1	0.000	0.000	0.000	0.000	0.000	0.000	0.007

Reactions

		Horizontal	Vertical	Horizontal	Moment		
Node	L/C	FX (kN)	FY (kN)	FZ (kN)	MX (kN-m)	MY (kN-m)	MZ (kN-m)
1	1	0.000	20.000	0.000	0.000	0.000	0.000
2	1	0.000	20.000	0.000	0.000	0.000	0.000

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Beam Displacement Detail

Beam	L/C	d (m)	X (mm)	Y (mm)	Z (mm)	Resultant (mm)
1	1	0.000	0.000	0.000	0.000	0.000
		2.000	0.000	-12.885	0.000	12.885
		4.000	0.000	-18.089	0.000	18.089
		6.000	0.000	-12.885	0.000	12.885
		8.000	0.000	0.000	0.000	0.000

Beam Force Detail

			Axial	Shear		Torsion	Bending	
Beam	L/C	d (m)	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN-m)	My (kN-m)	Mz (kN-m)
1	1	0.000	0.000	20.000	0.000	0.000	0.000	0.000
		2.000	0.000	10.000	0.000	0.000	0.000	-30.000
		4.000	0.000	0.000	0.000	0.000	0.000	-40.000

Beam Force Detail Cont...

			Axial	Shear		Torsion	Bending	
Beam	L/C	d (m)	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN-m)	My (kN-m)	Mz (kN-m)
1	1	6.000	0.000	-10.000	0.000	0.000	0.000	-30.000
		8.000	0.000	-20.000	0.000	0.000	0.000	0.000

Beam Max Moments

Beam	Node A	Length (m)	L/C		d (m)	Max My (kN-m)	d (m)	Max Mz (kN-m)
1	1	8.000	1	Max + ve	0.000	0.000	8.000	0.000
				Max -ve	0.000	0.000	4.000	-40.000

Beam Max Shear Forces

Beam	Node A	Length (m)	L/C		d (m)	Max Fz (kN)	d (m)	Max Fy (kN)
1	1	8.000	1	Max + ve	0.000	0.000	0.000	20.000
				Max -ve	0.000	0.000	8.000	-20.000

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