

Simply Supported Beam Engineering Report

mylatexfossee

February 2, 2026

Contents

1	Introduction	2
2	Beam Description	2
3	Data Source	2
4	Input Data	3
5	Shear Force Diagram	3
6	Bending Moment Diagram	4

1 Introduction

Engineering report generated automatically using Python + PyLaTeX.

2 Beam Description



Simply Supported Beam

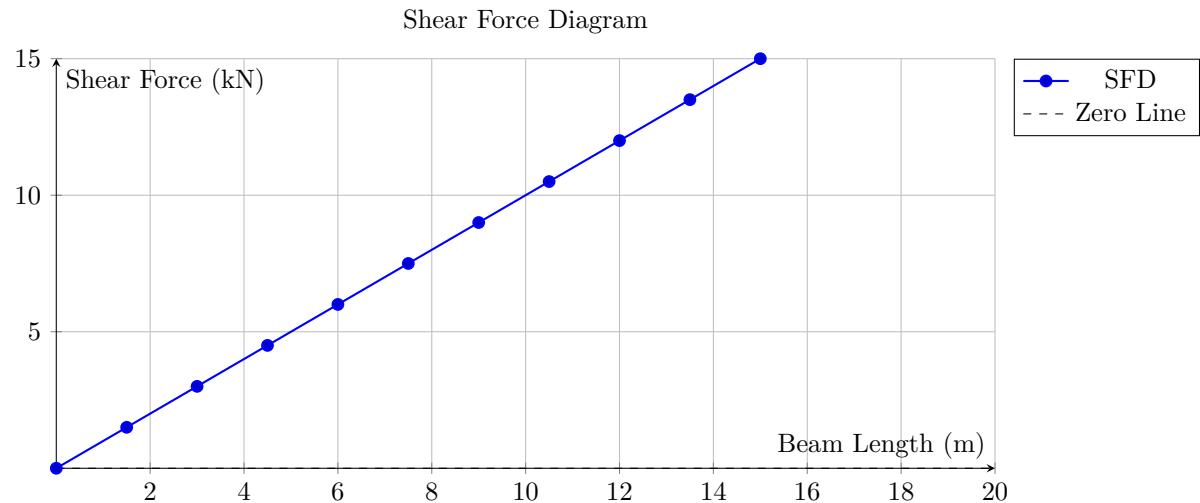
3 Data Source

Force values are read directly from the provided Excel file.

4 Input Data

x	Shear Force	Bending Moment
0.0	45.0	0.0
1.5	36.0	60.75
3.0	27.0	108.0
4.5	18.0	141.75
6.0	9.0	162.0
7.5	0.0	168.75
9.0	-9.0	162.0
10.5	-18.0	141.75
12.0	27.0	108.0
13.5	-36.0	60.75
15.0	-45.0	0.0

5 Shear Force Diagram



6 Bending Moment Diagram

