COMPACTFLAT S NEW

PROJECT REPORT

Fizinių ir technologijos mokslų centras 1

Overall Report

7/9/2021

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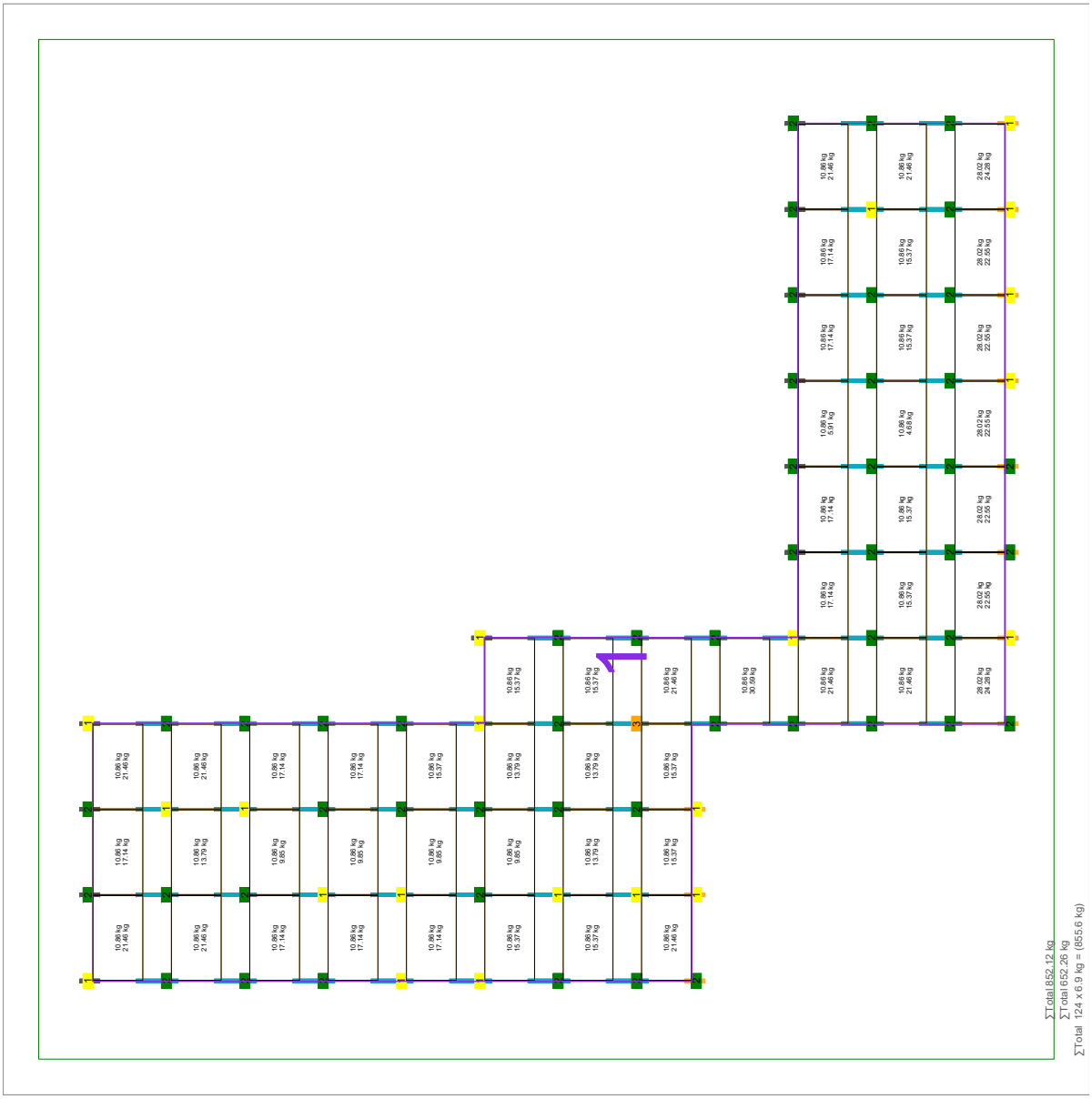
CONTENTS

STATIC INFORMATION: BALLASTING [STOGAS 1]



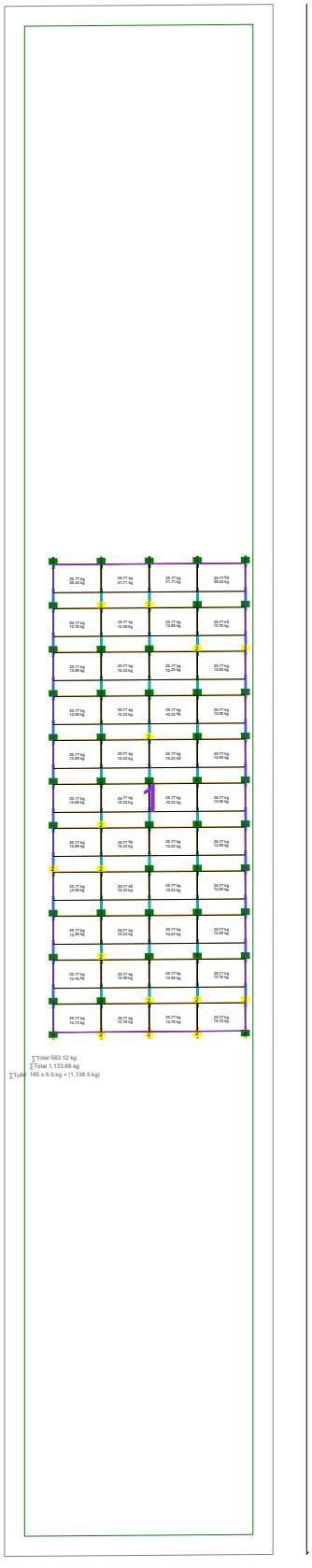
SUMMARY OF LOAD PARAMETERS [STOGAS 1]

(EN 1991-1-4, Abschnitt 4.2)

Snow load	**0.96 kN/m²**
Wind load	**0.52 kN/m²**
Reduction over useful life	**0.92**
Friction Constant µ	**0.7**
Load factor "uplift"	**1.5**
Load factor "sliding"	**1.5**
Load factor dead load	**0.9**
Weight per ballast block	**6.9 kg**
Number of ballast blocks:	**124**
System surface area	**121.16 m²**
Roof area	**472.84 m²**
Total ballast weight	**855.6 kg**
Weight Module/Rack	**1,093.19 kg**
Total System weight	**1,948.79 kg**
Surface load on system area	**16.08 kg/m²**
Surface load on roof	**4.12 kg/m²**
Max surface load on system area	**29.68 kg/m²**

The structural design is based on the wind tunnel study SSS05 issued by I.F.I. Institut für Industrieaerodynamik GmbH.

STATIC INFORMATION: BALLASTING [STOGAS 2-1]



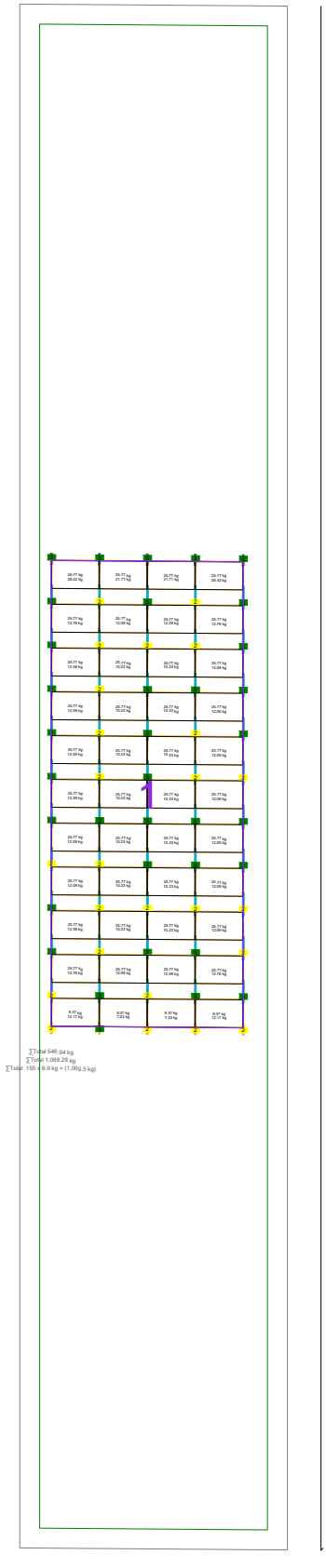
SUMMARY OF LOAD PARAMETERS [STOGAS 2-1]

(EN 1991-1-4, Abschnitt 4.2)

Snow load	**0.96 kN/m²**
Wind load	**0.42 kN/m²**
Reduction over useful life	**0.92**
Friction Constant µ	**0.7**
Load factor "uplift"	**1.5**
Load factor "sliding"	**1.5**
Load factor dead load	**0.9**
Weight per ballast block	**6.9 kg**
Number of ballast blocks:	**165**
System surface area	**113.64 m²**
Roof area	**527.62 m²**
Total ballast weight	**1,138.5 kg**
Weight Module/Rack	**981.64 kg**
Total System weight	**2,120.14 kg**
Surface load on system area	**18.66 kg/m²**
Surface load on roof	**4.02 kg/m²**
Max surface load on system area	**38.91 kg/m²**

The structural design is based on the wind tunnel study SSS05 issued by I.F.I. Institut für Industrieaerodynamik GmbH.

STATIC INFORMATION: BALLASTING [STOGAS 2-2]



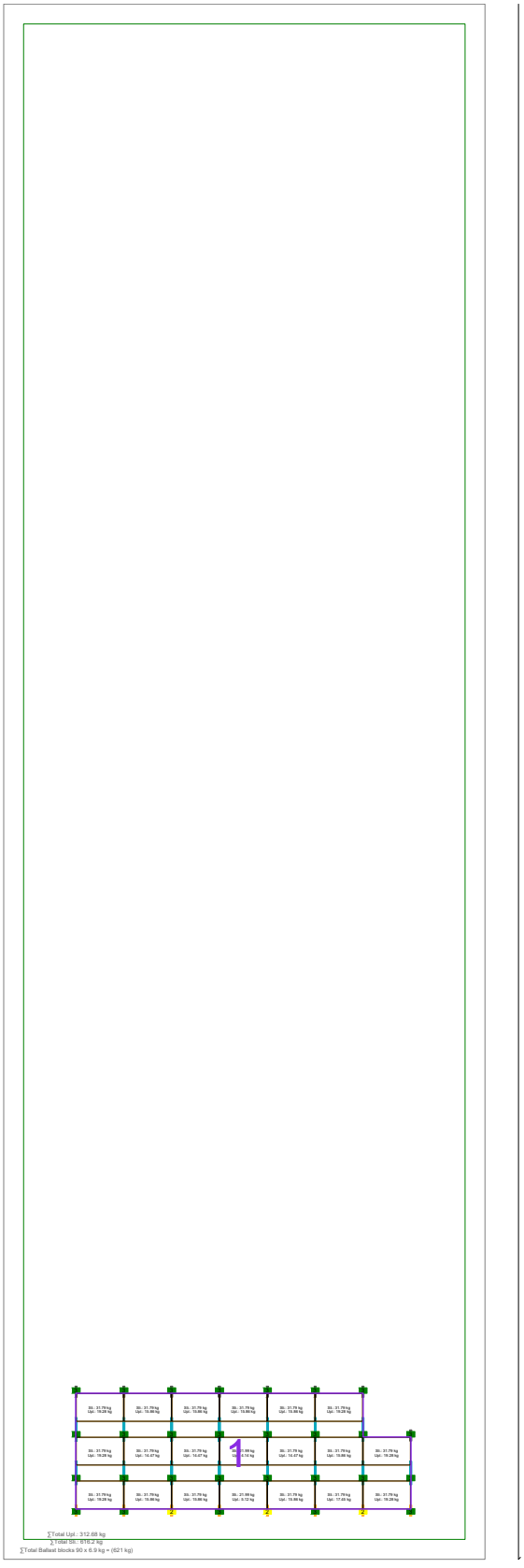
SUMMARY OF LOAD PARAMETERS [STOGAS 2-2]

(EN 1991-1-4, Abschnitt 4.2)

Snow load	**0.96 kN/m²**
Wind load	**0.42 kN/m²**
Reduction over useful life	**0.92**
Friction Constant µ	**0.7**
Load factor "uplift"	**1.5**
Load factor "sliding"	**1.5**
Load factor dead load	**0.9**
Weight per ballast block	**6.9 kg**
Number of ballast blocks:	**155**
System surface area	**113.64 m²**
Roof area	**527.62 m²**
Total ballast weight	**1,069.5 kg**
Weight Module/Rack	**981.64 kg**
Total System weight	**2,051.14 kg**
Surface load on system area	**18.05 kg/m²**
Surface load on roof	**3.89 kg/m²**
Max surface load on system area	**34.81 kg/m²**

The structural design is based on the wind tunnel study SSS05 issued by I.F.I. Institut für Industrieaerodynamik GmbH.

STATIC INFORMATION: BALLASTING [STOGAS 3-1]

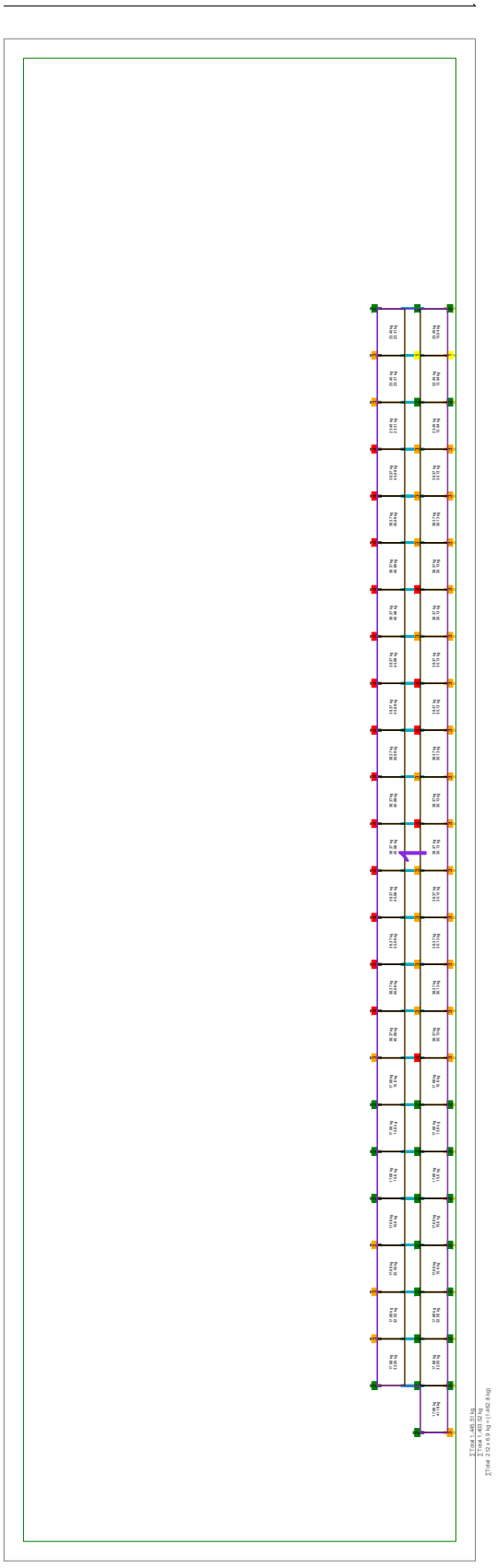


SUMMARY OF LOAD PARAMETERS [STOGAS 3-1]

Snow load	**0.96 kN/m²**
Wind load	**0.41 kN/m²**
Friction Constant µ	**0.7**
Load factor "uplift"	**1.5**
Load factor "sliding"	**1.5**
Load factor dead load	**0.9**
Weight per ballast block	**6.9 kg**
Number of ballast blocks:	**90**
System surface area	**46.67 m²**
Roof area	**958.85 m²**
Total ballast weight	**621 kg**
Weight Module/Rack	**446.2 kg**
Total System weight	**1,067.2 kg**
Surface load on system area	**22.87 kg/m²**
Surface load on roof	**1.11 kg/m²**
Max surface load on system area	**40.96 kg/m²**

The structural design is based on the wind tunnel study SSS05 issued by I.F.I. Institut für Industrieaerodynamik GmbH.

STATIC INFORMATION: BALLASTING [STOGAS 3-1]



SUMMARY OF LOAD PARAMETERS [STOGAS 3-1]

(EN 1991-1-4, Abschnitt 4.2)

Snow load	**0.96 kN/m²**
Wind load	**0.54 kN/m²**
Reduction over useful life	**0.92**
Friction Constant µ	**0.7**
Load factor "uplift"	**1.5**
Load factor "sliding"	**1.5**
Load factor dead load	**0.9**
Weight per ballast block	**6.9 kg**
Number of ballast blocks:	**212**
System surface area	**102.41 m²**
Roof area	**958.85 m²**
Total ballast weight	**1,462.8 kg**
Weight Module/Rack	**1,048.57 kg**
Total System weight	**2,511.37 kg**
Surface load on system area	**24.52 kg/m²**
Surface load on roof	**2.62 kg/m²**
Max surface load on system area	**40.62 kg/m²**

The structural design is based on the wind tunnel study SSS05 issued by I.F.I. Institut für Industrieaerodynamik GmbH.

DISCLAIMER/OTHER LIABILITY

1. This current order specifies expressly no review of any information provided by Principal. Any pertinent review must be ordered expressly and separately in writing.

2. The current report is based on the documents or information and data received by Principal.

3. Therefore, this report can only be as good as the quality of the information of the Principal permits.

4. For these reasons, no liability whatsoever and no warranty for errors based on untrue information of the Principal can be assumed despite any applied due diligence. However, any liability toward third parties is excluded.

5. Contractor (Aerocompact) shall be liable toward Principal only in cases of gross negligence (intent or gross negligence) except for personal injuries. This applies equally to damages to third parties engaged by Contractor.

6. Principal is only entitled to file a claim for damages within six months from the date the damaged party gained knowledge of the damage but no later than within two years following the incident on which the claim is based.

7. Principal has the burden of proof, i.e. Principal must show that the damage is caused by Principal.

8. The structural calculation of the building components refers only to these components.

9. The Supplier is not responsible for the project-related structural soundness of the roof structure and the professional realization and installation.

10. The technical specifications are an integral part of the product. AEROCOMPACT® shall not be liable for damages caused by non-compliance with the installation instructions and particularly with the safety information and from the improper use of the products. The current Terms and Conditions, Warranty Terms and Conditions and Installation Instructions will be provided on www.aerocompact.com .

11. If the roof gravel is located directly on top of the water-bearing roof membrane, Aerocompact® cannot be placed on the gravel layer. In this case the gravel must be removed in the area of the Aerocompact® bracket.

12. The required compressive strength of the roof insulation needs to be examined. An approval from the roof-membrane manufacturer is required.

13. Photovoltaic flat roof systems are not maintenance free. Maintenance, particular the right postion of the ballast blocks and the building protection pads should be conducted annually. For exceptional high-wind events, we recommend to do a Maintenance right after the storm event.

14. Place of jurisdiction, Feldkirch Austria