

Behavior of Rail Ballast Layer Using Mortar Foam with LISA-FEA

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ABSTRACT

In the development of railroads, geosynthetics can be introduced in or under the stabilizer layer or sub ballast, foam mortar has become one of the trends in the construction sector in replacing the foundation layer as an excellent alternative.Researchers conducted a comparative analysis on railroad ballasts using a substitute for conventional railroad ballast, namely granular material and replaced with mortar foam, each material was modeled based on a typical standard rail track geometry using the same size and thickness, analyzed using software The finite element method is LISA FEA V.8 to get the values of the steesses that occur and the value of the decrease that occurs in the ballast with the two materials. From the results of the analysis of this study, it was found that there was an increase in the ability of ballast with mortar foam material compared to granular material, the decrease in stress that occurred and deformation in the deformation value in railroad construction gave an option to use conventional ballast substitutes. It can be seen that the decrease in ballast with eranular material is 86.1 mm, while the foam mortar with 2000 kPa ou is 0.022 mm. While the stresses that occur in the two ballast layers are explained as follows, in the ballast layer there is a stress of 38.09 N/mm2 which is smaller than the result of the ballast layer with granular material, which is 104.73 Nothing and

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1. INTRODUCTION

It has been expressed that geosynthetics can gives significant choices to further develop track support adjustment what's more, in this way lessen track support costs and working expenses. In railroad development, gosynthetics can be introduced inside or under a layer of stabilizer or subballast[1]. Ballast degradation and the resulting deterioration of the track geometry [2].

The use of mortar foam has become one of the trends in the construction sector in replacing the top layer of foundation as an excellent alternative. Mortar foam has a low thickness and great usefulness, which has been generally utilized in development applications [3].

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- 1. Understanding the eBook Lisa Fea Manual
 - The Rise of Digital Reading Lisa Fea Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Lisa Fea Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lisa Fea Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Lisa Fea Manual
 - Personalized Recommendations
 - $\circ\,$ Lisa Fea Manual User Reviews and Ratings
 - Lisa Fea Manual and Bestseller Lists
- 5. Accessing Lisa Fea Manual Free and Paid eBooks
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 - o ePub, PDF, MOBI, and More
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 - Lisa Fea Manual Enhanced eBook Features
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 - o Adjustable Fonts and Text Sizes of Lisa Fea Manual
 - Highlighting and Note-Taking Lisa Fea Manual
 - o Interactive Elements Lisa Fea Manual
- 8. Staying Engaged with Lisa Fea Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lisa Fea Manual
- 9. Balancing eBooks and Physical Books Lisa Fea Manual
 - $\circ\,$ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lisa Fea Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lisa Fea Manual
 - Setting Reading Goals Lisa Fea Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lisa Fea Manual
 - Fact-Checking eBook Content of Lisa Fea Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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