

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 stresses 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 granular material is 86.1 mm, while the foam mortar with 2000 kPa q_u 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 N/mm².

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1. INTRODUCTION

It has been expressed that geosynthetics can give significant choices to further develop track support adjustment what's more, in this way lessen track support costs and working expenses. In railroad development, geosynthetics 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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web september 12 2023 by spencer legacy a new the grinch christmas adventures trailer has been released by outright games showing off the title based on the dr seuss classic pre order the

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web thankfully the grinch has some wonderful awful ideas like a stealthy santa costume a candy cane lasso and speedy snowboard to take on christmas themed obstacles in snowy locations with visuals inspired by dr seuss s illustrations and two player fun with the grinch and max the grinch christmas adventures is a fun new way to enjoy

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web as the story progresses players will discover the spirit of christmas and help the grinch s heart grow three sizes featuring colorful visuals inspired by dr seuss s original illustrations from the beloved story players must embark on a

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web grinch and his adventures the best christmas brings us another wonderful adventure from grinch the small fox with a big heart this time it s christmas and grinch helps santa with an important task a very sweet and beautifully illustrated children s story with a nice moral to help children learn about values and rules

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web two player fun with the grinch and max have a great grinchy time trying to steal christmas in this festive platformer and help the grinch s small heart grow a few sizes bigger along the

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web with stunning visuals that pay homage to dr seuss s original illustrations the grinch christmas adventures invites players to join the grinch on a quest to spoil christmas for the inhabitants of who ville accompanied by his loyal companion max players will undertake evil missions to steal all the presents while trying to avoid being

the grinch official trailer hd youtube - Apr 08 2022

web mar 8 2018 the grinch official trailer in theatres november 9 for their eighth fully animated feature illumination and universal pictures present the grinch based on

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web with visuals inspired by dr seuss s illustrations and two player fun with the grinch and max the grinch christmas adventures is a fun new way to enjoy this christmas classic 13 10 2023 ps5

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web sep 12 2023 the grinch christmas adventures is a 2d action adventure platformer developed by casual brothers ltd play as the infamous grinch and steal all the presents in who ville by utilizing the stealthy

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web metacritic game reviews the grinch christmas adventures for playstation 5 featuring colorful visuals inspired by dr seuss s original illustrations from the beloved story players must embark on a quest as the

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web gallery details have a great grinchy time trying to steal christmas in this festive platformer and help the grinch s small heart grow a few sizes bigger along the way every who down in who ville loves to sing gift and feast which are all of the things grinch can t stand in the least

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web the grinch christmas adventures the grinch has had a wonderful awful idea steal all the presents in who ville using gadgets like his stealthy santa costume and candy cane lasso help him sneak around freeze creatures with snowballs and learn the meaning of christmas along the way in this festive platformer all reviews no user reviews

the grinch christmas adventures 2023 nintendo life - Feb 18 2023

web sep 7 2023 overview status announced number of players 2 genre action adventure platformer release date switch eshop 13th oct 2023 34 99 13th oct 2023 39 99 also available on ps4 ps5 official site

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web jun 28 2023 watch the announcement trailer for colourful side scrolling platformer the grinch christmas adventures play as the grinch and his loyal dog max in two player co op and help them on their quest

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web have awfully good fun sneak and steal presents as the grinch and his dog max unlock grinchy gadgets solve puzzles to gain abilities throw snowballs disguise as santa use a candy cane lasso or a jumping jetpack and more get in the spirit the grinch wants to stop christmas but you can help his heart grow three sizes

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