

. . . , . . .

, 15, 49005, ; e-mail: sobmb@i.ua

EN 12663 EN 15227,

EN 15227,

(1) ()
(2 3)

110 /

15 ,

EN 15227

() .

3)

80 ,

50 64)

3.

EN 15227

3.

EN 15227.

1. EN 12663-1:2018 (EN 12663-1:2010 + A1:2014, IDT).
1. ()
2. EN 15227:2015 (EN 15227:2008+A1:2010, IDT).
2016. 37 c.
3. EN 15227: 2008. Railway applications – Crashworthiness requirements for railway vehicle bodies. Brussels, 2008. 37 p.
4. *Wingler F.* Crash-energy management, Part II. URL: <http://www.drwingler.com/wp-content/uploads/2016/08/Crash-Energy-Management.pdf> (: 28.03.2022).
5. URL: <http://history.rw.by/lokomotivy/epm/> (: 16.09.2021).
6. TRAVERSO InnoTrans 2018.
. 2018. 12. . 23–32.
7. Alstom Coradia Regional Trains. URL: <https://www.railway-technology.com/projects/alstom-coradia-regional-trains/> (: 16.09.2021).
8. . 2008. 9. C. 48–55.
9. *Roberts J., Fraikin B., Leveque D.* Development and validation of a regional train platform to the requirements of EN 15227. Passive Safety of Rail Vehicles. Innovation in passive safety and interior design: the 7th International Symposium Passive Safety in Berlin on 20 – 21.11.2008: symposium proceedings. Berlin: IFV Bahntechnik e.V., 2008. Vol. 17. P. 237–248.

10. *Banko F. P., Xue J. H.* Pioneering the Application of High Speed Rail Express Trainsets in the United States. New York. Parsons Brinckerhoff Group Inc. One Penn Plaza, 2012. 328 p.
11. 2015. 1. . 84–96.
12. 2021. 2. . 78–90. <https://doi.org/10.15407/itm2021.02.078>
13. *Sobolevska M., Horobets D., Syrota S* Development of passive protection devices for a power head of a high-speed multiple unit train at its collisions. IOP Conference Series: Materials Science and Engineering, 2020. URL: <https://iopscience.iop.org/article/10.1088/1757-899X/985/1/012016/pdf> (: 28.03.2022). <https://doi.org/10.1088/1757-899X/985/1/012016>
14. *Sobolevska M., Telychko I.* assive safety of high-speed passenger trains at accident collisions on 1520 mm gauge railways. Transport problems. 2017. V. 12. Issue 1. 51–62. <https://doi.org/10.20858/tp.2017.12.1.5>
15. 2016. 2. . 91–105.
16. 2020. 2. . 66–79. <https://doi.org/10.15407/itm2020.02.066>
17. 2020. 3. . 79–90. <https://doi.org/10.15407/itm2020.03.079>
18. 2018. 2. . 90–103. <https://doi.org/10.15407/itm2018.02.090>
19. 2019. 1. . 90–106. <https://doi.org/10.15407/itm2019.01.094>
20. 2021. 4. . 118–128. <https://doi.org/10.15407/itm2021.04.118>

28.03.2022,
12.04.2022