DESIGN CALCULATION AND FITTING OF SQUARE MESH WINDOWS FOR TRAWL FISHERIES IN COASTAL AREAS
Pham Van Tuyen, Nguyen Phi Toan, Le Van Bon

Summary
Design calculation and fitting of square mesh windows at the trawl net codend base on theoretical calculations for fishing gear design and fishing status of coastal trawl fisheries. The calculation results shown the basic parameters of 06 square mesh panels for trawler fleet with main engine less than 90 HP including: 03 mesh sizes are \( a = 15.0 \text{ mm} \) with PE 380D/3x4; \( a = 17.5 \text{ mm} \) with PE 380D/3x5, \( a = 20.0 \text{ mm} \) with PE 380D/3x6 and 02 types of dimensions are \((1.26 \times 0.84) \text{ m}\); \((1.86 \times 0.84) \text{ m}\). Types of square mesh windows the suitability of Circular No 02/2016-BTS, calculation theories and inherit the previous research results. The coefficient of horizontal, vertical assembly is 0.35 and 0.94 of square mesh windows respectively. The assembly position of square mesh windows at the upper panel of the codend and 1.24 m from the codline. The square mesh window (LMV1.3) is ensured its selectivity exploitation and economic efficiency.

Keywords: Trawl fisheries, square mesh window, coastal areas.