

Title of the Project: FLY-BAG Project: Development of blast-resistant containers for transport by air

Company name: CETMA Consortium – Engineering, Design & Materials Technologies Center

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Short description of the company :

CETMA, founded in 1994, is a Research and Technology Organization (RTO) with expertises in the field of Materials Engineering, Information Technology and Industrial Design. CETMA is a multidisciplinary center and carries out applied research and experimental development activities for innovation of products, processes and services with the mission to promote the growth and development of the national productive system. CETMA is located at "Cittadella della Ricerca" in Brindisi and takes up a 5,000 square metres area with an equipped Materials Technologies Laboratory, a Prototyping Laboratory and one of the biggest Virtual Reality centres at European level.

Abstract of the research project:

FLY-BAG project developed and proof tested a textile based luggage container able to resist to the blast of explosives hidden in the luggage loaded in the cargo holds. The project received a lot of acknowledgements, (Premio Nazionale per l'Innovazione 2012, TECHTEXTIL PRIZE 2011 Frankfurt, Design Technology Award 2011 MATERIALICA Munich, Innovation Convention 2011 Brussels). Moreover a European patent was filed. On the basis of the success of FLY-BAG, ended in 2011, CETMA and the other project's partners are working on the FLY-Bag 2 European project, "Advanced technologies for bomb-proof cargo containers and blast containment units for the retrofitting of passenger airplanes"; the aim is to optimize the "FLY-BAG cargo version", to develop a "FLY-BAG passenger cabin version" and to carry out full scale explosion tests on dismantled airplanes.