Abstract

The terrorist attacks and threats are the growing problem all over the world that not only affect the life of human being but also affect the structure integrity and its resistance. Explosive devices, human bomb and the other bomb equipments are the major weapon choices for these attacks, significantly threatens civilians and military personnel. As we know that ceasefire and bombing activities are increasing day by day also the terrorist attacks on major buildings can cause catastrophic failure on the building's external and internal structural frames,
collapsing of walls and shutting down of critical life-safety system. Because of all these threat from such extreme condition, effort has been made from the last few decades to find suitable method of structural analysis and design to resist blast load. Detail understanding is required about the blast phenomena and the propagation of waves towards the structure and also response of structure against such shock waves. This paper presents a comprehensive study of concrete wall against this dynamic loading. Concrete wall subjected to blast loading is modeled in Finite Element package Ansys and then analyzed in Autodyn with and without steel plate to study the impact of blast loading.

References

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Index Terms

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