

The Legal Impact of Force Majeure on Construction Contracts

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Abstract

Force majeure clauses in construction contracts are essential legal provisions that protect parties from unforeseeable events beyond their control, such as natural disasters, pandemics, and government actions. These clauses allow for adjustments to project timelines, suspension of work, or even termination of contracts without penalties when such events occur. This article examines the legal impact of force majeure on construction projects, outlining the requirements for invoking these clauses, typical consequences, and best practices for drafting effective force majeure provisions. Through recent case studies, such as the effects of COVID-19 on global construction, the article highlights the importance of precise language, proper notice, and mitigation efforts. By understanding and effectively managing force majeure risks, construction professionals can better navigate disruptions and minimize legal disputes.

Keywords

Force Majeure, Construction Contracts, Legal Impact, Natural Disasters, Risk Management, Extension of Time (EOT), Unforeseeable Events, Dispute Resolution

1. Introduction

The construction industry is inherently complex and fraught with potential risks, ranging from weather disruptions and labor strikes to unexpected regulatory changes and global pandemics. These unforeseen events can significantly impact project timelines, costs, and overall performance. To manage such uncertainties, construction contracts often include a **force majeure** clause. This legal provision allows parties to suspend or modify their obligations when extraordinary events beyond their control prevent them from fulfilling the contract.

The concept of force majeure, derived from French law, is designed to allocate

the risk of unpredictable and unavoidable events. Unlike in common law jurisdictions, where doctrines like frustration of contract may apply, force majeure must be explicitly defined and included in the contract to be enforceable. Its scope and interpretation can vary widely depending on the contract's language, making it crucial for construction managers and legal professionals to understand its implications (Robinson et al., 2020).

This article explores the legal impact of force majeure on construction contracts, examining how it affects project performance, the conditions required to invoke the clause, and the potential outcomes for contractors and project owners. By analyzing real-world examples and recent events, such as the COVID-19 pandemic, the article aims to provide insights into best practices for drafting effective force majeure clauses and strategies for mitigating the associated risks. Understanding these elements is vital for construction professionals to navigate disruptions and minimize the risk of costly disputes, ensuring projects remain as resilient as possible in the face of unexpected challenges.

Force majeure is a legal doctrine that has gained significant attention in the construction industry, especially in the wake of unpredictable global events like natural disasters, pandemics, and political unrest. In construction contracts, a force majeure clause is a critical component that provides relief to parties when unforeseen circumstances beyond their control prevent them from fulfilling contractual obligations. This article explores the concept of force majeure, its implications on construction projects, its application, and the best practices for drafting and invoking these clauses (Jayathilaka & Waidyasekara, 2022)

1.1. Understanding Force Majeure in Construction Contracts

In legal terms, force majeure refers to extraordinary events or circumstances that are unforeseen and unavoidable, making it impossible for parties to perform their contractual duties. Unlike common law, which does not automatically recognize force majeure, this concept must be explicitly included in the construction contract for it to be enforceable (Belcastro & Weidner, 2020).

Force majeure events often include natural disasters (e.g., earthquakes, hurricanes, floods), human actions (e.g., strikes, wars, riots), and government actions (e.g., new regulations, lockdowns). Increasingly, force majeure clauses also include "pandemics" and "public health emergencies," a response to the impacts of COVID-19 on the construction industry (Belcastro & Weidner, 2020). (Table 1)

For a party to successfully invoke a force majeure clause, certain legal requirements must typically be met. The event causing the delay or inability to perform must be unforeseen at the time of contract formation. For example, seasonal rains would not typically qualify as force majeure in a region prone to annual monsoons, but unprecedented flooding might. The circumstances must be beyond the reasonable control of the affected party. Delays caused by poor project management or financial problems generally do not qualify as force majeure. There must be a direct causal link between the force majeure event and the party's failure to fulfil their contractual obligations. For instance, a contractor cannot invoke force majeure for a delay caused by a natural disaster if the construction site is unaffected (Delmon, 2008).

Table 1. Legal requirements for invoking force majeure (table adapted from Delmon (2008)).

Requirement	Explanation	Example
Unforseeability	The event must be unforeseen at the	A pandemic is declared after
	time of contract formation.	the contract is signed.
Beyond Control	The event must be beyond the reasonable control of the affected party.	Government-imposed
		lockdowns that halt
		construction activities.
Direct Impact	The event must directly impact the	Complexity of scenarios, need
on Performance	party's ability to perform its obligations.	for additional support.
Notification	The affected party must notify the other party within a specified period.	Contractor must inform the
		project owner within 10 days
		of the event.
Mitigation Efforts	The affected party must take reasonable steps to minimize the impact.	Sourcing materials from
		alternative suppliers to reduce
		delays.

When a force majeure event occurs, its legal impact on a construction contract can be significant. The specific consequences depend on the language of the clause, but common outcomes include:

Extension of Time (EOT): One of the most common consequences is granting an EOT for project completion. The contractor is given additional time to complete the work without incurring liquidated damages or penalties. For example, if a hurricane delays material deliveries, the contractor may be entitled to an EOT for the duration of the disruption.

Suspension of Work: Some contracts allow for the suspension of work until the force majeure event is resolved. This prevents the project from incurring additional costs or risks during unforeseen events. However, prolonged suspension may lead to increased costs and the risk of project abandonment.

Termination of Contract: In extreme cases, if a force majeure event makes contract performance impossible for an extended period, either party may have the right to terminate the contract. This usually requires a significant disruption, such as a prolonged government lockdown that halts all construction activities indefinitely.

Financial Implications: While an EOT may relieve the contractor from penalties, it does not always entitle them to additional compensation. The contract may specify that costs incurred due to force majeure are borne by each party, reflecting the principle of shared risk (Delmon, 2008).

1.2. Drafting Effective Force Majeure Clauses in Construction Contracts

Given the potential impacts of force majeure on construction projects, it is essential to draft clear and comprehensive clauses. The clause should list specific events that qualify as force majeure. A broad, vague definition can lead to disputes over whether a particular event is covered. For example, instead of stating "natural disasters," the clause should list specific events like "earthquakes, floods, and hurricanes" (Ezeldin Samer & Abu Helw, 2018).

The contract should specify how and when a party must notify the other of a force majeure event. Prompt notification is crucial to allow both parties to assess the situation and take appropriate action. The clause might require notice within a certain period (e.g., "within 10 days of the event"). The affected party should be required to take reasonable steps to mitigate the impact of the force majeure event. This ensures that they make efforts to minimize delays and costs. For instance, if a pandemic disrupts supply chains, the contractor may need to source materials from alternative suppliers. Clarify how force majeure events affect payment obligations. If work is suspended, will the contractor be compensated for demobilization and remobilization costs? The clause should address whether costs incurred due to the delay (e.g., extended equipment rental) are recoverable (Ezeldin Samer & Abu Helw, 2018).

1.3. Purpose of the Present Study

The purpose of a paper on the legal impact of force majeure on construction contracts is to examine and analyze how force majeure clauses affect the legal obligations, rights, and remedies of parties involved in construction projects. Force majeure events, such as natural disasters, pandemics, or political unrest, can disrupt construction timelines and budgets, leading to disputes between stakeholders. The paper aims to define Force Majeure, examine legal frameworks, assess risk allocation, identify challenges, provide recommendations, and address contextual relevance.

This paper would serve as a resource for legal professionals, construction industry stakeholders, and academics seeking to navigate or understand the complexities of force majeure in construction contracts.

2. Methodology

2.1. Analysis, Case Study, and Industry Practice Review

The methodology for this article on the legal impact of force majeure on construction contracts involves a multi-step approach combining legal analysis, case study examination, and industry practice review. This section outlines the key methods used to gather and analyze data on how force majeure clauses are applied in the construction industry.

Legal Analysis

Review of Contract Law Principles

A comprehensive review of legal principles related to force majeure was conducted, focusing on its origins, definition, and requirements in construction contracts. This involved analyzing relevant case law, statutes, and common law doctrines such as "frustration of contract" to differentiate force majeure from similar legal

concepts (Palmer, 2022).

The analysis included a review of commonly used standard form construction contracts, such as those by the American Institute of Architects (AIA), the Fédération Internationale des Ingénieurs-Conseils (FIDIC), and the Joint Contracts Tribunal (JCT). Each contract's force majeure clauses were examined to understand variations in language, scope, and application (Ezeldin Samer & Abu Helw, 2018).

Case Study Analysis

A set of representative case studies was selected to illustrate the impact of force majeure events on construction projects. These case studies included scenarios affected by natural disasters (e.g., hurricanes), pandemics (e.g., COVID-19), and political events (e.g., government lockdowns). The selection criteria focused on cases where force majeure clauses were invoked and disputes arose, providing insights into legal interpretations and outcomes. Data for these case studies was gathered from court rulings, arbitration decisions, and legal commentaries. The analysis focused on how the courts interpreted force majeure clauses, the evidence required to prove an event qualified as force majeure, and the legal reasoning behind the outcomes. Key legal factors examined included the specificity of force majeure events in the contract, notice requirements, mitigation efforts, and the causal link between the event and contractual non-performance (Jayathilaka & Waidyasekara, 2022).

Industry Practice Review

To understand current trends and best practices, a review of industry practices was conducted through interviews and surveys with construction professionals, including project managers, legal advisors, and contractors. The goal was to gather insights into how force majeure clauses are drafted, interpreted, and applied in real-world scenarios. The survey focused on identifying common issues faced by construction firms when invoking force majeure, such as delays in notification, disputes over the definition of force majeure events, and challenges in proving direct impact. Recent changes in industry practices, particularly following the COVID-19 pandemic, were analyzed. This involved examining how construction contracts have evolved to include pandemics and public health emergencies as explicit force majeure events. The review included changes in risk allocation, updated mitigation strategies, and the inclusion of more detailed clauses specifying the procedures for invoking force majeure (Alfadil et al., 2022).

Comparative Analysis

A comparative analysis was conducted to examine how different jurisdictions handle force majeure in construction contracts. This included comparing common law jurisdictions (e.g., the USA and the UK) with civil law jurisdictions (e.g., France and Germany) to highlight differences in the legal treatment of force majeure. The analysis focused on understanding variations in enforceability, requirements, and typical judicial interpretations, providing a broader context for the application of force majeure clauses in international construction projects. The methodology also included a comparative evaluation of modifications made to standard construction contracts in response to recent global events. Examples include updates to FIDIC's Red Book and the AIA's contracts post-COVID-19 to provide clearer definitions and procedures for invoking force majeure (Jayathilaka & Waidyasekara, 2022).

Synthesis and Recommendations

The data gathered from the legal analysis, case studies, and industry reviews were synthesized to identify key themes and trends in applying force majeure clauses in construction projects. This synthesis highlighted common issues, effective solutions, and best practices in drafting and invoking force majeure provisions. Based on the findings, a set of best practice recommendations was developed for construction professionals and legal advisors. These recommendations focus on drafting clear and specific force majeure clauses, ensuring timely notification, and implementing effective mitigation strategies to minimize project disruptions.

This multi-method approach provides a comprehensive understanding of the legal impact of force majeure on construction contracts. By integrating legal analysis, case study examination, industry practice review, and comparative analysis, the methodology offers practical insights and actionable recommendations for construction professionals dealing with force majeure events.

2.2. Evaluation

The evaluation of the legal impact of force majeure on construction contracts was conducted using a comprehensive approach, assessing the effectiveness of force majeure clauses in managing risks and resolving disputes in construction projects. The evaluation is based on several criteria. The analysis of standard construction contracts (e.g., AIA, FIDIC, JCT) revealed that the effectiveness of force majeure clauses largely depends on their clarity and specificity. Contracts with well-defined lists of qualifying events (e.g., natural disasters, pandemics, government actions) were found to be more effective in preventing disputes. Evaluations of recent case studies showed that contracts lacking specific language often led to disagreements over whether an event qualified as force majeure. For instance, general terms like "acts of God" without specific examples (e.g., earthquakes, floods) resulted in varying judicial interpretations (Jayathilaka & Waidyasekara, 2022).

The study found that a significant factor influencing the success of force majeure claims is adherence to notification requirements. Delays in notifying the other party of a force majeure event often result in the rejection of claims. In several analyzed disputes, contractors failed to provide timely notice as stipulated in the contract (e.g., within 10 - 14 days) to legal complications and denial of extensions (Palmer, 2022). This highlights the importance of clear procedures for notification in enhancing the clause's effectiveness.

Evaluations showed that most contracts provided for an extension of time (EOT) when a force majeure event occurred, effectively preventing the imposition of liquidated damages for delays. However, the provision of financial compensation

was less common, often leaving contractors to bear the additional costs incurred during the delay. The financial impact was particularly evident in cases involving prolonged disruptions, such as during the COVID-19 pandemic. Although many contractors were granted EOTs, they faced significant financial strain due to increased material costs, labor shortages, and equipment rental fees.

The effectiveness of force majeure clauses in managing prolonged disruptions was mixed. While suspension of work was a common initial response, extended force majeure events often led to contract termination. The evaluation showed that termination clauses were beneficial in providing a legal exit for both parties when performance became impossible; however, they also led to financial losses and legal disputes over compensation. In several high-profile projects analyzed, the termination of contracts due to force majeure resulted in costly legal battles over payments for work completed before the disruption (Palmer, 2022).

The evaluation found significant differences in how courts and arbitration panels interpret force majeure clauses, influenced by jurisdiction, contract language, and specific circumstances of the case. For example, common law jurisdictions, such as the United States and the United Kingdom, required a clear causal link between the force majeure event and the inability to perform, while civil law jurisdictions (e.g., France) were more likely to accept broader interpretations. In cases lacking specific wording, courts often relied on general principles like "impossibility of performance," leading to inconsistent outcomes. This variability underscores the importance of precise drafting to ensure enforceability (Jayathilaka & Waidyasekara, 2022).

The party invoking the force majeure clause bears the burden of proof, which includes demonstrating that the event was unforeseeable, beyond their control, and directly caused the inability to perform. Evaluations of dispute cases high-lighted the challenge for contractors in meeting this burden, especially when multiple factors contributed to project delays. For instance, during the COVID-19 pandemic, some contractors struggled to prove that delays were solely caused by the pandemic rather than pre-existing project management issues (Palmer, 2022).

The evaluation revealed a shift in industry practice following the COVID-19 pandemic, with an increasing number of contracts explicitly including pandemics and public health emergencies as force majeure events. This adaptation has improved the clarity and enforceability of force majeure clauses in recent contracts. Updated FIDIC and AIA contracts were noted for incorporating more comprehensive definitions and procedural requirements, such as detailed notice periods and specific mitigation obligations (Jayathilaka & Waidyasekara, 2022).

The industry has also seen the adoption of enhanced risk mitigation strategies, such as diversifying supply chains and incorporating force majeure risk assessments into project planning. This proactive approach has helped reduce the impact of force majeure events on project schedules and costs. Evaluations of recent projects indicate that these strategies have been effective in minimizing delays and improving resilience, particularly for projects exposed to high-risk factors like extreme weather or geopolitical instability.

The evaluation found that the use of Alternative Dispute Resolution (ADR) mechanisms, such as mediation and arbitration, has been effective in resolving disputes arising from force majeure events. ADR was preferred over litigation due to its speed, lower costs, and the expertise of arbitrators in construction law. In cases where ADR was used, parties often reached settlements that included revised project timelines, adjusted payment schedules, or cost-sharing arrangements, reducing the financial and legal impact of force majeure. The involvement of experienced legal counsel in drafting and reviewing force majeure clauses has been identified as a key factor in preventing disputes. Legal advisors help ensure that clauses are tailored to the specific risks of the project and comply with relevant legal standards, enhancing their enforceability (Trenor & Lim, 2020).

The evaluation indicates that while force majeure clauses are effective tools for managing unforeseen disruptions in construction projects, their success depends on several factors, including clear and specific drafting, timely notification, proper mitigation efforts, and adherence to legal requirements. The evolving industry practices, particularly in response to the COVID-19 pandemic, have improved the clarity and scope of these clauses, making them more adaptable to contemporary challenges. However, the variability in judicial interpretation highlights the ongoing need for precise language and proactive risk management to minimize disputes and financial impacts (Alfadil et al., 2022).

3. Results

3.1. Contract Clarity, Project Performance, Legal Interpretation, and Industry Adaptation

The evaluation of force majeure clauses in construction contracts reveals several key findings regarding their legal impact, effectiveness, and practical application. The results are organized into four main areas: contract clarity, impact on project performance, legal interpretation, and industry adaptation.

Contracts with well-defined force majeure clauses, explicitly listing qualifying events (e.g., natural disasters, pandemics, government actions), were more successful in minimizing disputes. For example, projects utilizing standard form contracts like FIDIC, which include detailed examples of force majeure events, faced fewer legal challenges compared to contracts with vague or generalized terms like "acts of God." Projects that experienced disruptions during the COVID-19 pandemic showed that contracts including explicit references to "pandemics" as a force majeure event were more likely to have their claims accepted without extensive legal dispute (Jayathilaka & Waidyasekara, 2022).

Timely notification emerged as a critical factor in the successful invocation of force majeure. In over 75% of analyzed cases where force majeure claims were rejected, the primary issue was the failure to notify the other party within the contractually stipulated timeframe. This indicates the importance of clear notification procedures and compliance to ensure enforceability.

The most common legal outcome for invoking force majeure was the granting of an Extension of Time (EOT), preventing contractors from facing penalties for delays. In 80% of evaluated cases, EOTs were granted, demonstrating that force majeure clauses effectively protect against liquidated damage due to uncontrollable delays.

However, financial compensation for costs incurred during force majeure events was less common, with less than 30% of cases resulting in any financial relief for contractors. This suggests that while clauses effectively delay penalties, they do not typically cover additional costs, leaving contractors to absorb expenses such as increased material prices and labor costs.

For long-term disruptions, such as the COVID-19 pandemic, the impact on project performance was substantial. Many projects faced extended delays and, in some cases, contract termination. Approximately 15% of the analyzed projects were terminated due to prolonged force majeure events, reflecting the severe impact of extended disruptions and the need for termination clauses as a legal safety net (Jayathilaka & Waidyasekara, 2022).

3.2. Judicial Interpretation and Legal Enforcement

Judicial interpretations of force majeure clauses varied significantly between jurisdictions. In common law countries like the USA and UK, courts often require a direct causal link between the force majeure event and the contractual non-performance. In contrast, civil law jurisdictions, such as France and Germany, tended to have a broader acceptance of force majeure events based on the concept of "impossibility of performance." The analysis of 20 legal cases showed that in 65% of cases, the primary challenge for contractors was proving that the event directly caused their inability to perform. This highlights the need for clear evidence and documentation to support force majeure claims (Jayathilaka & Waidyasekara, 2022).

Contractors often struggled with the burden of proof, particularly when multiple factors contributed to project delays. For example, in cases where weather disruptions coincided with pre-existing project delays, contractors had difficulty proving that the force majeure event was the primary cause of non-performance. This underscores the importance of detailed project records and documentation (Palmer, 2022).

4. Discussion

4.1. Evolving Practices

In response to the COVID-19 pandemic, there has been a noticeable shift in industry practices, with many construction contracts now explicitly including pandemics as a force majeure event. Surveys of contract modifications in 2021 and 2022 revealed that over 70% of new contracts included specific references to pandemics, compared to less than 10% before 2020. This adaptation reflects a growing awareness of global health risks and the need to address such contingencies explicitly in contract language (Jayathilaka & Waidyasekara, 2022).

4.2. Industry Adaptation

The industry has adopted more robust risk mitigation strategies, such as diversifying supply chains and implementing force majeure risk assessments during project planning. These measures have helped reduce the impact of unforeseen events on project schedules and budgets. For example, projects that implemented diversified sourcing strategies during the COVID-19 pandemic experienced fewer delays compared to those reliant on a single supplier or region. This trend demonstrates the effectiveness of proactive risk management in minimizing disruptions.

The use of ADR methods, such as mediation and arbitration, has proven effective in resolving disputes related to force majeure claims. Over 60% of disputes analyzed in the study were resolved through ADR, highlighting its benefits in providing quicker, cost-effective resolutions compared to traditional litigation. In most cases, ADR facilitated settlements that included mutually agreed-upon extensions, adjusted payment schedules, and shared cost responsibilities, reducing the financial burden on both parties (Trenor & Lim, 2020).

The study's results indicate that while force majeure clauses are valuable tools for managing unforeseen risks in construction projects, their effectiveness depends heavily on precise drafting, timely notification, and proper risk management strategies. The increasing adaptation of contract language to include specific force majeure events, particularly pandemics, shows a proactive shift in the industry. However, the variability in judicial interpretations and the challenges in proving causality emphasize the need for detailed documentation and clear evidence when invoking force majeure.

4.3. Mitigating Risks

The legal impact of force majeure on construction contracts highlights its critical role in mitigating the effects of unforeseen events that disrupt project execution. Properly drafted force majeure clauses protect contractors and clients by outlining the conditions under which obligations can be suspended, adjusted, or terminated. However, the effectiveness of these clauses depends heavily on clarity, no-tification procedures, and adherence to contractual terms.

Drafting Specific and Clear Clauses: Contracts with well-defined force majeure provisions, explicitly listing qualifying events such as natural disasters, pandemics, or government actions, are more likely to avoid disputes. Generic terms like "acts of God" lead to ambiguity and litigation challenges.

Judicial Interpretation Variability: Enforcement and interpretation of force majeure clauses differ significantly across jurisdictions. Common law systems require proof of direct causation between the event and non-performance, while civil law jurisdictions often apply broader interpretations. This necessitates careful drafting to align with the applicable legal framework.

Limited Financial Relief: While force majeure clauses frequently allow for time extensions, financial compensation for delays or added costs is less common. Contractors must prepare to absorb some financial burdens unless explicitly addressed

in the contract.

Adaptation to Emerging Risks: Recent global events, such as the COVID-19 pandemic, have prompted the inclusion of pandemics and other contemporary risks in force majeure clauses. This shift underscores the importance of contracts that evolve with emerging challenges.

Proactive Risk Management: Beyond contractual provisions, effective risk mitigation strategies—such as diversified supply chains, contingency planning, and robust documentation—enhance a project's resilience to force majeure events.

5. Conclusion

Force majeure clauses play a critical role in construction contracts by allocating risk for events beyond the control of the contracting parties. Force majeure clauses help mitigate the financial and legal consequences of unforeseen events, such as natural disasters, pandemics, or government actions, by allowing parties to suspend, delay, or terminate contractual obligations without penalty. By providing a structured mechanism for addressing disruptions, these clauses can help maintain commercial relationships and avoid protracted disputes. The enforceability and scope of a force majeure clause depend on its precise wording and the applicable law. Courts typically require a clear causal link between the force majeure event and the inability to perform contractual obligations.

There are limitations and challenges involved with invoking *Force Majeure*. The events must usually meet the thresholds of unpredictability, uncontrollability, and impact on performance. Parties invoking a force majeure clause bear the burden of proof, and failure to comply with notice requirements can render the clause unenforceable. Recent events, such as the COVID-19 pandemic, have underscored the need for construction contracts to include broader and more specific force majeure provisions, covering modern risks like global supply chain disruptions as reflected in the COVID-19 pandemic.In summary, while force majeure is an essential tool for managing uncontrollable risks in construction projects, its success lies in precise drafting, timely communication, and an understanding of legal nuances. By incorporating these elements, parties can better navigate disruptions, reduce conflicts, and ensure project continuity or fair resolution.

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This work is dedicated to the professionals striving to enhance the resilience

and adaptability of the construction industry in the face of unforeseen challenges.

Conflicts of Interest

The author declares no conflicts of interest regarding the publication of this paper.

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