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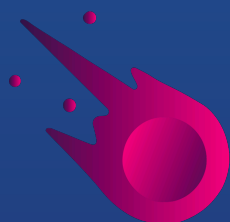
# StellaSwap

# Audit

**Security Assessment**

**02. February, 2022**

**For**



# StellaSwap

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Version	Date	Description
1.0	02. February 2022	<ul style="list-style-type: none"><li>• Layout project</li><li>• Automated- /Manual-Security Testing</li><li>• Summary</li></ul>

## **Network**

Moonbeam (Polkadot)

## **Website**

<https://stellaswap.com/>

## **Telegram**

<https://t.me/stellaswap>

## **Twitter**

<https://twitter.com/StellaSwap>

## **Github**

<https://github.com/stellaswap>

## **Reddit**

<https://www.reddit.com/user/stellaswap>

## **Medium**

<https://stellaswap.medium.com/>

## Description

All your DeFi needs in one place.

Swap, earn and build on Moonbeam's leading DEX

## Project Engagement

During the 28th of January 2022, **StellaSwap Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

### Logo



# StellaSwap

### Contract Link

**v1.0**

- Github
  - <https://github.com/stellaswap/core>
  - Commit: a20e85bc0bacbad189fc4fd8669e4c870f24e5cd

# Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
<b>Critical</b>	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
<b>High</b>	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon as possible.
<b>Medium</b>	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
<b>Low</b>	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
<b>Informational</b>	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

# Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

## **Methodology**

The auditing process follows a routine series of steps:

1. Code review that includes the following:
  - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
  - ii) Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
2. Testing and automated analysis that includes the following:
  - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
  - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

## Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:

- ◆ StellaSwapV2ERC20.sol
- ◆ StellaSwapV2Factory.sol
- ◆ StellaSwapV2Pair.sol
- ◆ StellaSwapV2Router.sol
- ◆ StellaSwapV2Router02.sol





## Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

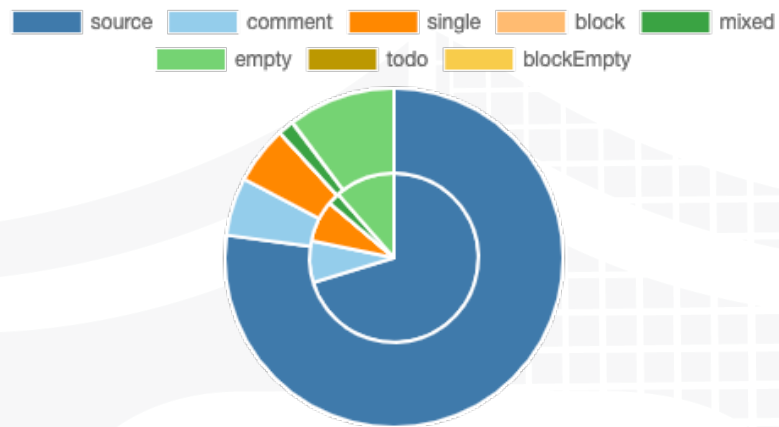
*A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.*

### v1.0

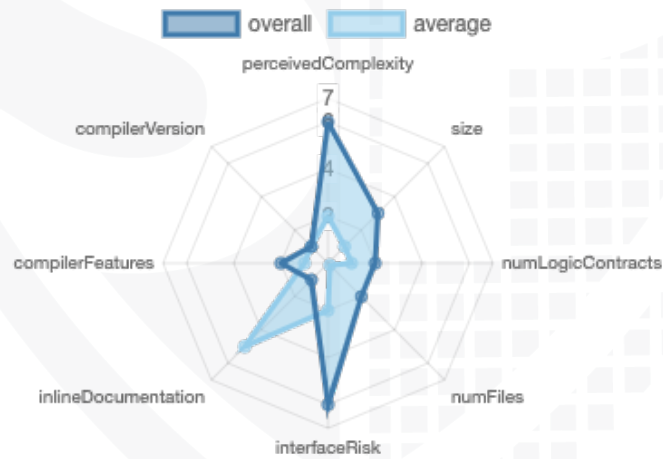
File Name	SHA-1 Hash
contracts/amm/StellaSwapV2Router.sol	19df41bb8ffa978274dc2f339925ca6deb90430d
contracts/amm/StellaSwapV2ERC20.sol	3d43c4e2a85e8262450f1977cf9ba9118984c460
contracts/amm/StellaSwapV2Factory.sol	4c9413924dc06b4d54ca9404b5fcac82d2f45118
contracts/amm/StellaSwapV2Pair.sol	bed123e7fc07845c9765d7eb00decac37b7e602f
contracts/amm/StellaSwapV2Router02.sol	6249738ed75a38797bc2d28a14345da27b919007
contracts/amm/libraries/UQ112x112.sol	a2aa89f19d5a1167fda2ade934d343a175bde994
contracts/amm/libraries/SafeMath.sol	f802ac44ef6b69fdffdf3db1c45c70916fbc79be
contracts/amm/libraries/StellaSwapV2Library.sol	9395d62b4954adcf84c712fe63012fa7a6328921
contracts/amm/libraries/TransferHelper.sol	b2441f79a02b206ade7ff9e1b0f47be8f3b2e7f8
contracts/amm/libraries/Math.sol	89f14fa046685e5ea33f52b131b0efeccd6e9a28
contracts/amm/interfaces/IStellaSwapV2Callee.sol	35018d1840d2ab0523651a7f5a7766947b535e4e
contracts/amm/interfaces/IWETH.sol	6f61b0bc2ca5baa63c38b3570aad51e356d5c25a
contracts/amm/interfaces/IStellaSwapV2Pair.sol	f8aeded8e91c82cfae04dae22f0dababd20e75cc
contracts/amm/interfaces/IStellaSwapV2ERC20.sol	5d820dfc4b71ae53d7e7b198d8d7bffa19a1b599
contracts/amm/interfaces/IStellaSwapV2Router02.sol	6fe889afa050c42965e583b55789defbb7e1212a
contracts/amm/interfaces/IERC20.sol	acddd8418eeb2aad105bff83f20da52e4d510122
contracts/amm/interfaces/IStellaSwapV2Router01.sol	48e210f06692015c73b0b95baa9baee1afdf4fdb
contracts/amm/interfaces/IStellaSwapV2Factory.sol	565bd90d9afdb2b30562f9a2a3b5dbee0a965700

# Metrics

## Source Lines v1.0



## Risk Level v1.0



## Capabilities

### Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	5	8	15	0

### Exposed Functions

*This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.*

Version	Public	Payable
1.0	233	20

Version	External	Internal	Private	Pure	View
1.0	211	181	5	51	70

## State Variables

Version	Total	Public
1.0	34	28

## Capabilities

Version	Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	=0.6.12 >=0.5.0 >=0.6.0 >=0.6.2		yes	yes (2 asm blocks)	

Version	Transfers ETH	Low-Level Calls	DelegateCall	Uses Hash Functions	EC Recover	New/Create/Create2
1.0	yes			yes	yes	yes → AssemblyCall::Name::create2

# Inheritance Graph v1.0



CallGraph  
v1.0



## Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

1. Correct implementation of Token standard
2. Deployer cannot mint any new tokens
3. Deployer cannot burn or lock user funds
4. Deployer cannot pause the contract
5. Overall checkup (Smart Contract Security)

### Correct implementation of Token standard

Function	Description	Exist	Tested	Verified
TotalSupply	provides information about the total token supply	✓	✓	✓
BalanceOf	provides account balance of the owner's account	✓	✓	✓
Transfer	executes transfers of a specified number of tokens to a specified address	✓	✓	✓
TransferFrom	executes transfers of a specified number of tokens from a specified address	✓	✓	✓
Approve	allow a spender to withdraw a set number of tokens from a specified account	✓	✓	✓
Allowance	returns a set number of tokens from a spender to the owner	✓	✓	✓

## Write functions of contract v1.0

- ◆ approve
- ◆ transfer
- ◆ transferFrom
- ◆ permit





## Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	✓	✓	✗
Max / Total Supply	-		

Comments:

### v1.0

- Everybody can mint tokens
  - There is no modifier to restrict the mint function

## Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock	✓	✓	✓
Deployer cannot burn	✓	✓	✗

Comments:

### v1.0

- Everybody can burn tokens and transfer token0/token1 to specified address
  - There is no modifier to restrict the burn function

## Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	—	—	—



## Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

### Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	⚠
Unverified / Not checked	✗
Not available	—

# Modifiers and public functions

## v1.0





StellaSwapV2Factory

- createPair
- setFeeTo
- setMigrator
- setFeeToSetter
- setDevFee
- setSwapFee

StellaSwapV2ERC20

- approve
- transfer
- transferFrom
- permit

StellaSwapV2Router

- addLiquidity
  - ensure
- addLiquidityETH 
  - ensure
- removeLiquidity
  - ensure
- removeLiquidityETH
  - ensure
- removeLiquidityWithPermit
- removeLiquidityETHWithPermit
- removeLiquidityETHSupportingFeeOnTransferTokens
  - ensure
- removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
- swapExactTokensForTokens
  - ensure
- swapTokensForExactTokens
  - ensure
- swapExactETHForTokens 
  - ensure
- swapTokensForExactETH
  - ensure
- swapExactTokensForETH
  - ensure
- swapETHForExactTokens 
  - ensure
- swapExactTokensForTokensSupportingFeeOnTransferTokens
  - ensure
- swapExactETHForTokensSupportingFeeOnTransferTokens 
  - ensure
- swapExactTokensForETHSupportingFeeOnTransferTokens
  - ensure

### StellaSwapV2Pair

```

    initialize
    setSwapFee
    setDevFee
    mint
    lock
    burn
    lock
    swap
    lock
    skim
    lock
    sync
    lock
  
```

```

    addLiquidity
    ensure
    addLiquidityETH $
    ensure
    removeLiquidity
    ensure
    removeLiquidityETH
    ensure
    removeLiquidityWithPermit
    removeLiquidityETHWithPermit
    removeLiquidityETHSupportingFeeOnTransferTokens
    ensure
    removeLiquidityETHWithPermitSupportingFeeOnTransferToke...
    swapExactTokensForTokens
    ensure
    swapTokensForExactTokens
    ensure
    swapExactETHForTokens $
    ensure
    swapTokensForExactETH
    ensure
    swapExactTokensForETH
    ensure
    swapETHForExactTokens $
    ensure
    swapExactTokensForTokensSupportingFeeOnTransferTokens
    ensure
    swapExactETHForTokensSupportingFeeOnTransferTokens $
    ensure
    swapExactTokensForETHSupportingFeeOnTransferTokens
    ensure
  
```

## Comments

- Deployer can set following state variables without any limitations
  - StellaSwapV2Factory
    - feeTo
- Everyone can call following functions
  - StellaSwapV2Factory
    - createPair
  - StellaSwapV2Pair
    - mint
    - burn
    - Swap
  - StellaSwapV2Router






























- Every external/public function can be called from everyone

**Please check if an `OnlyOwner` or similar restrictive modifier has been forgotten.**



# Source Units in Scope

## v1.0

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/amm/StellaSwapV2Router.sol	1	————	447	287	258	14	310	
	contracts/amm/StellaSwapV2ERC20.sol	1	————	95	95	78	2	59	
	contracts/amm/StellaSwapV2Factory.sol	1	————	74	74	58	3	72	
	contracts/amm/StellaSwapV2Pair.sol	1	1	233	230	189	38	206	
	contracts/amm/StellaSwapV2Router02.sol	4	6	857	435	357	39	580	
	contracts/amm/libraries/UQ112x112.sol	1	————	22	22	10	7	4	————
	contracts/amm/libraries/SafeMath.sol	1	————	19	19	12	2	4	————
	contracts/amm/libraries/StellaSwapV2Library.sol	1	————	84	84	63	10	71	
	contracts/amm/libraries/TransferHelper.sol	1	————	29	29	19	5	26	————
	contracts/amm/libraries/Math.sol	1	————	25	25	18	3	5	————
	contracts/amm/interfaces/ISTellaSwapV2Callee.sol	————	1	7	6	3	1	3	————
	contracts/amm/interfaces/IWETH.sol	————	1	9	6	3	1	10	
	contracts/amm/interfaces/ISTellaSwapV2Pair.sol	————	1	54	9	5	1	55	————
	contracts/amm/interfaces/ISTellaSwapV2ERC20.sol	————	1	25	9	5	1	27	————
	contracts/amm/interfaces/ISTellaSwapV2Router02.sol	————	1	46	8	4	1	16	
	contracts/amm/interfaces/IERC20.sol	————	1	19	9	5	1	19	————
	contracts/amm/interfaces/ISTellaSwapV2Router01.sol	————	1	97	6	3	1	48	
	contracts/amm/interfaces/ISTellaSwapV2Factory.sol	————	1	21	8	4	1	21	————
	<b>Totals</b>	<b>13</b>	<b>15</b>	<b>2163</b>	<b>1361</b>	<b>1094</b>	<b>131</b>	<b>1536</b>	

## Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)
nSLOC	normalized source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces, ...)



# Audit Results

# AUDIT PASSED

## Critical issues

**No critical issues**

## High issues

**No high issues**

## Medium issues

**No medium issues**

## Low issues

Issue	File	Type	Line	Description
-------	------	------	------	-------------

#1	All	A floating pragma is set	Lines next to description	<p>The current pragma Solidity directives:</p> <ul style="list-style-type: none"> <li>• <code>&gt;=0.5.0 (libraries/StellaSwapV2Library.sol:3)</code></li> <li>• <code>&gt;=0.5.0 (interfaces/IStellaSwapV2Factory.sol#3)</code></li> <li>• <code>&gt;=0.5.0 (interfaces/IERC20.sol#3)</code></li> <li>• <code>&gt;=0.5.0 (interfaces/IStellaSwapV2Callee.sol#3)</code></li> <li>• <code>&gt;=0.6.2 (interfaces/IStellaSwapV2Router02.sol#3)</code></li> <li>• <code>&gt;=0.5.0 (interfaces/IStellaSwapV2Pair.sol#3)</code></li> <li>• <code>&gt;=0.6.2 (interfaces/IStellaSwapV2Router01.sol#3)</code></li> <li>• <code>&gt;=0.6.0 (libraries/TransferHelper.sol#3)</code></li> <li>• <code>&gt;=0.5.0 (interfaces/IWETH.sol#3)</code></li> <li>• <code>&gt;=0.5.0 (interfaces/IStellaSwapV2ERC20.sol#3)</code></li> <li>• <code>&gt;=0.5.0 (StellaSwapV2Router02.sol#7)</code></li> <li>• <code>&gt;=0.5.0 (StellaSwapV2Router02.sol#88)</code></li> <li>• <code>&gt;=0.6.0 (StellaSwapV2Router02.sol#172)</code></li> <li>• <code>&gt;=0.6.2 (StellaSwapV2Router02.sol#205)</code></li> <li>• <code>&gt;=0.6.2 (StellaSwapV2Router02.sol#306)</code></li> <li>• <code>&gt;=0.5.0 (StellaSwapV2Router02.sol#354)</code></li> <li>• <code>&gt;=0.5.0 (StellaSwapV2Router02.sol#379)</code></li> <li>• <code>&gt;=0.5.0 (StellaSwapV2Router02.sol#402)</code></li> </ul>
----	-----	--------------------------	---------------------------	--

#2	StellaSwapV2Factory	Missing Zero Address Validation (missing-zero-check)	19, 48, 58, 53,	Check that the address is not zero
#3	StellaSwapV2Pair	Missing Zero Address Validation (missing-zero-check)	75	Check that the address is not zero
#4	StellaSwapV2Router	Missing Zero Address Validation (missing-zero-check)	24	Check that the address is not zero
#5	StellaSwapV2Router02	Missing Zero Address Validation (missing-zero-check)	434	Check that the address is not zero
#6	StellaSwapV2Pair	Missing Events Arithmetic	88, 81	Emit an event for critical parameter changes

## Informational issues

**No informational issues**

## Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <https://docs.soliditylang.org/en/v0.5.10/natspec-format.html>) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

### 02. February 2022:

- Read whole report for more information

## SWC Attacks

ID	Title	Relationships	Status
<a href="#">SW C-1 36</a>	Unencrypted Private Data On-Chain	<a href="#">CWE-767: Access to Critical Private Variable via Public Method</a>	PASSED
<a href="#">SW C-1 35</a>	Code With No Effects	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 34</a>	Message call with hardcoded gas amount	<a href="#">CWE-655: Improper Initialization</a>	PASSED
<a href="#">SW C-1 33</a>	Hash Collisions With Multiple Variable Length Arguments	<a href="#">CWE-294: Authentication Bypass by Capture-replay</a>	PASSED
<a href="#">SW C-1 32</a>	Unexpected Ether balance	<a href="#">CWE-667: Improper Locking</a>	PASSED
<a href="#">SW C-1 31</a>	Presence of unused variables	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 30</a>	Right-To-Left-Override control character (U+202E)	<a href="#">CWE-451: User Interface (UI) Misrepresentation of Critical Information</a>	PASSED
<a href="#">SW C-1 29</a>	Typographical Error	<a href="#">CWE-480: Use of Incorrect Operator</a>	PASSED
<a href="#">SW C-1 28</a>	DoS With Block Gas Limit	<a href="#">CWE-400: Uncontrolled Resource Consumption</a>	PASSED

<a href="#">SW C-1 27</a>	Arbitrary Jump with Function Type Variable	<a href="#">CWE-695: Use of Low-Level Functionality</a>	<b>PASSED</b>
<a href="#">SW C-1 25</a>	Incorrect Inheritance Order	<a href="#">CWE-696: Incorrect Behavior Order</a>	<b>PASSED</b>
<a href="#">SW C-1 24</a>	Write to Arbitrary Storage Location	<a href="#">CWE-123: Write-what-where Condition</a>	<b>PASSED</b>
<a href="#">SW C-1 23</a>	Requirement Violation	<a href="#">CWE-573: Improper Following of Specification by Caller</a>	<b>PASSED</b>
<a href="#">SW C-1 22</a>	Lack of Proper Signature Verification	<a href="#">CWE-345: Insufficient Verification of Data Authenticity</a>	<b>PASSED</b>
<a href="#">SW C-1 21</a>	Missing Protection against Signature Replay Attacks	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>
<a href="#">SW C-1 20</a>	Weak Sources of Randomness from Chain Attributes	<a href="#">CWE-330: Use of Insufficiently Random Values</a>	<b>PASSED</b>
<a href="#">SW C-11 9</a>	Shadowing State Variables	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>
<a href="#">SW C-11 8</a>	Incorrect Constructor Name	<a href="#">CWE-665: Improper Initialization</a>	<b>PASSED</b>
<a href="#">SW C-11 7</a>	Signature Malleability	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>

<a href="#">SW C-11 6</a>	Timestamp Dependence	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	<b>PASSED</b>
<a href="#">SW C-11 5</a>	Authorization through tx.origin	<a href="#">CWE-477: Use of Obsolete Function</a>	<b>PASSED</b>
<a href="#">SW C-11 4</a>	Transaction Order Dependence	<a href="#">CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')</a>	<b>PASSED</b>
<a href="#">SW C-11 3</a>	DoS with Failed Call	<a href="#">CWE-703: Improper Check or Handling of Exceptional Conditions</a>	<b>PASSED</b>
<a href="#">SW C-11 2</a>	Delegatecall to Untrusted Callee	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	<b>PASSED</b>
<a href="#">SW C-11 1</a>	Use of Deprecated Solidity Functions	<a href="#">CWE-477: Use of Obsolete Function</a>	<b>PASSED</b>
<a href="#">SW C-11 0</a>	Assert Violation	<a href="#">CWE-670: Always-Incorrect Control Flow Implementation</a>	<b>PASSED</b>
<a href="#">SW C-1 09</a>	Uninitialized Storage Pointer	<a href="#">CWE-824: Access of Uninitialized Pointer</a>	<b>PASSED</b>
<a href="#">SW C-1 08</a>	State Variable Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>
<a href="#">SW C-1 07</a>	Reentrancy	<a href="#">CWE-841: Improper Enforcement of Behavioral Workflow</a>	<b>PASSED</b>
<a href="#">SW C-1 06</a>	Unprotected SELFDESTRUCT Instruction	<a href="#">CWE-284: Improper Access Control</a>	<b>PASSED</b>

<a href="#">SW</a> <a href="#">C-1</a> <a href="#">05</a>	Unprotected Ether Withdrawal	<a href="#">CWE-284: Improper Access Control</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">04</a>	Unchecked Call Return Value	<a href="#">CWE-252: Unchecked Return Value</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">03</a>	Floating Pragma	<a href="#">CWE-664: Improper Control of a Resource Through its Lifetime</a>	<b>NOT PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">02</a>	Outdated Compiler Version	<a href="#">CWE-937: Using Components with Known Vulnerabilities</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">01</a>	Integer Overflow and Underflow	<a href="#">CWE-682: Incorrect Calculation</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">00</a>	Function Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>

The logo features the words "Solid Proofed" in a white, elegant script font. The word "Solid" is positioned above "Proofed". Behind the text is a faint, stylized shield emblem. The shield has a blue-to-white gradient and a grid-like pattern on its right side. The entire design is set against a solid dark blue background.

Solid  
Proofed

**Blockchain Security | Smart Contract Audits | KYC**

A small horizontal representation of the German flag, consisting of three equal-width horizontal stripes of black, red, and gold.

MADE IN GERMANY