

GSI Corporation Ltd

Ducting for the Future



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Introduction

- ⊗ GSI Coiled Duct (GCD) has been used across the World for 15 years
- ⊗ Notable customers include the US Department of Defence, US Navy, US Army, South Korean Military, Municipalities, Rail, Airport and Highways authorities
- ⊗ Now being introduced to the European Market
- ⊗ GCD is unique, delivering key benefits to construction projects

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Key Benefits

- ⊗ Long continuous lengths – 600m per reel
- ⊗ Significantly stronger product
- ⊗ Simpler and faster installation
- ⊗ Reduces Health & Safety Risks by 60% - 89%
- ⊗ Reduced environmental impact
- ⊗ Reduces costs of installed duct by 10%-25%
- ⊗ Long life maintaining integrity and reducing maintenance costs
- ⊗ Single piece connection from chamber to chamber – no joints

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Men in trenches

- ⊗ No significant work in trenches
- ⊗ Duct is installed mechanically between chambers
- ⊗ Men are only required to work on connections at chambers



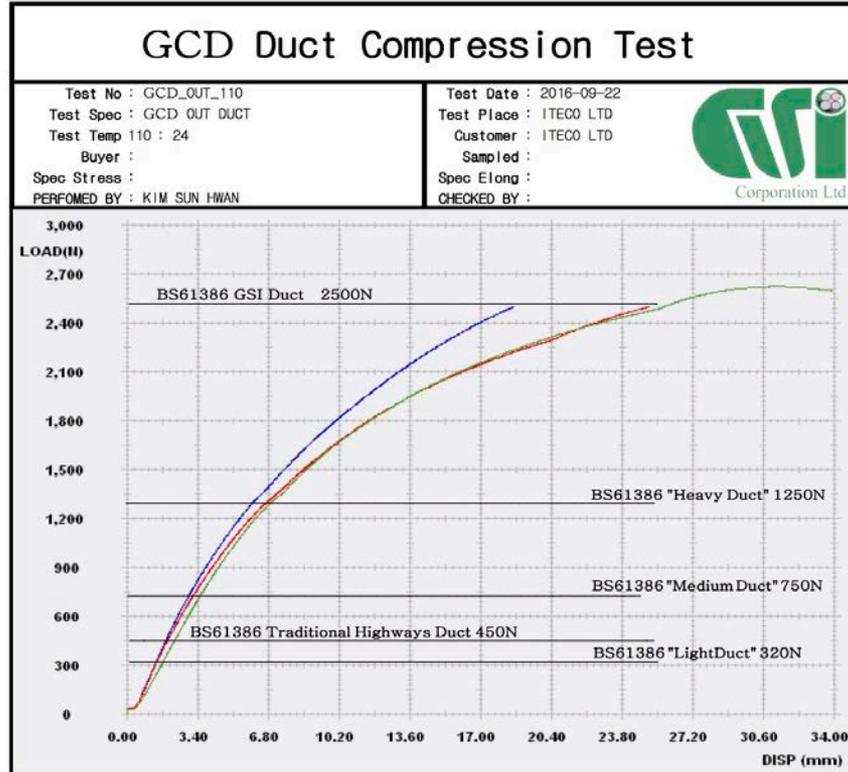
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GCD Compressive Strength



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Health & Safety

Man hour Reduction – 20Km project		(figures from Carillion)	
Ducting Type	Safety Quotient (Man Hours)	Reduction (Man Hours)	% Reduction
Traditional (760 cover)	-8572	0	0
GCD (300 cover)	-3430	5,143	60%
GCD (100 cover)	-938	7,634	89%

- ⊗ Fewer man hours required
- ⊗ Almost no requirement to work in trenches

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Cost Saving



Cost Reduction – 20Km project (figures from Carillion)

Ducting Type	Cost (£)	Reduction	% Reduction
Traditional (760 cover)	£593,816	0	0
GCD (300 cover)	£563,454	£30,362	5.11%
GCD (100 cover)	£540,730	£53,086	8.94%

Cost Reduction – 20Km project (figures from Costain)

Traditional (760 cover)	£545,955	0	0
GCD (300 cover)	£451,358	£94,597	17%

- ⊗ Carillion based on conservative GCD installation of 330m/day
- ⊗ Costain based on GCD installation of 540m/day
- ⊗ Actual installation of 1,000m/day achievable

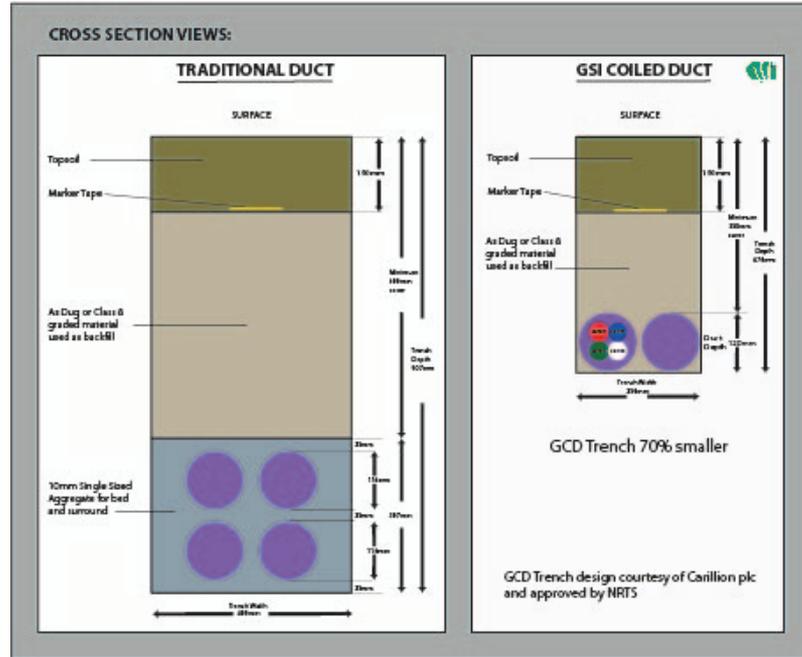
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Trench Requirements



- ⊗ No additional aggregates required with GCD
- ⊗ No disposal of waste soil required with GCD

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Additional Benefits

- ⊗ GCD is flexible and follows the routes required
No chambers required for changes in direction or elevation
- ⊗ GCD has little coil memory and lies out flat on the ground
- ⊗ Carillion calculates a 29.5 week project can be reduced by 6.5 weeks by using GCD
Removing a site office early can save £300,000 per week
- ⊗ Carillion have advised Highways England that GCD should be used as a 'de facto' standard duct
- ⊗ GCD works best with Cubis type chambers



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- ⊗ GSI Coiled Duct is leading the introduction of continuous ducting in the UK Highways Sector

For more information please visit
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