

This module uses the method of calculating welding cost recommended by Welding Specialists. Values provided by form on certain inputs are taken from studies conducted byinternationally acclaimed institutes.

Calculation File: 2024-WEC-002

Joint Type: Groove

Joint Detail: V-Groove

Weld Process: GTAW (root/heat) + SMAW (fill/cap)

Welding Method: Manual

Total Weld Length: 8.62m mm

Joint Thickness: 2.27 mm

Joint Dimensions:

Root Gap (g):	<u>2.4</u> <u>mm</u>	Root Face Height (a):	<u>3.5</u> <u>mm</u>	Groove Angle (b):	<u>37.5</u> <u>deg</u>
Groove Angle (a):	<u>30</u> <u>deg</u>	Root Penetration (r):	<u>3.6</u> <u>mm</u>	Radius (r):	<u>1.5</u> <u>mm</u>
Cap Height (h):	<u>3.5</u> <u>mm</u>	Branch Thickness (tB):	<u>1.5</u> <u>mm</u>	Header Thick (th):	<u>1.5</u> <u>mm</u>
Thickness (ta):	<u>1.5</u> <u>mm</u>				

Consumables:

Consumable Group:	<u>Stainless & High Alloy Steel</u>	Consumable Spec:	<input checked="" type="checkbox"/> GTAW	<input type="checkbox"/> SMAW
Gas Consumption:	<u>0.32</u> <u>cu.m/1000J</u>	Deposition Efficiency:	<u>20</u> <u>%</u>	<u>50</u> <u>%</u>
Operator Factor:	<u>20</u> <u>%</u>	Deposition Rate:	<u>0.36</u> <u>J</u>	<u>0.36</u> <u>J/g/ft</u>

Power Characteristics:

Cost per KWh:	<u>1</u> <u>GBP</u>	Welding Voltage:	<u>20</u> <u>V</u>
		Welding Current:	<u>2000</u> <u>A</u>

Cost Input:

Consumable Cost Basis:	<u>Bulk</u>	Consumable Cost:	<u>0</u> <u>GBP/kg</u>
Flux Cost:	<u>0</u> <u>GBP/kg</u>	Labor Cost:	<u>0</u> <u>GBP/hr</u>
Gas Cost:	<u>0</u> <u>GBP/cu.m</u>	Trade Name: <u>THERMAGIT GE246L / FOX EASyMA</u>	

Estimated Expenditure

Welding Consumables to be purchased:	<u>0.35 kg / 20.44 kg</u>	Cost for Consumables:	<u>6.5 GBP</u>
Flux Required:	<u>Not Applicable</u>	Cost for Flux:	<u>Not Applicable</u>
Gas Consumption:	<u>5.2 cu.m</u>	Cost for Gas:	<u>5 GBP</u>
Power Consumption:	<u>26.2 kWh</u>	Cost for Power:	<u>26 GBP</u>
Arc Time:	<u>0.8 hrs / 8.2 hrs</u>	Cost for Labor:	<u>130 GBP</u>
Manhours (Time to weld):	<u>1 hrs / 12 hrs</u>	Total Cost:	<u>204.5 GBP</u>

Notes:

Calculation By: Engineering Pulse Dated: 07-Mar-24

Welding Estimate Guide

LL Leslie

Welding Estimate Guide:

Pipeline Rules of Thumb Handbook E.W. McAllister, 2015-06-02 This classic reference has built a reputation as the go to book to solve even the most vexing pipeline problems Now in its seventh edition Pipeline Rules of Thumb Handbook continues to set the standard by which all others are judged The 7th edition features over 30% new and updated sections reflecting the exponential changes in the codes construction and equipment since the sixth edition The seventh edition includes recommended drill sizes for self tapping screws new ASTM standard reinforcing bars calculations for calculating grounding resistance national Electrical Code tables Corilis meters pump seals progressive cavity pumps and accumulators for lubricating systems Shortcuts for pipeline construction design and engineering Calculations methods and handy formulas Turnkey solutions to the most vexing pipeline problems

Estimating and Costing for the Metal Manufacturing Industries

Robert Creese, M. Adithan, 1992-08-25 This practical reference text provides a thorough overview of cost estimating as applied to various manufacturing industries with special emphasis on metal manufacturing concerns It presents examples and study problems illustrating potential applications and the techniques involved in estimating costs Containing both US and metric units for easy conversion of world wide manufacturing data Estimating and Costing for the Metal Manufacturing Industries outlines professional societies and publications dealing with cost estimating and cost analysis details the four basic metalworking processes machining casting forming and joining reveals five techniques for capital cost estimating including the new AACE International's Recommended Practice 16R 90 and the new knowledge and experience method discusses the effect of scrap rates and operation costs upon unit costs offers four formula methods for conceptual cost estimating and examines material design cost relationships describes cost indexes cost capacity factors multiple improvement curves and facility cost estimation techniques offers a generalized metal cutting economics model for comparison with traditional economic models and more Estimating and Costing for the Metal Manufacturing Industries serves as an on the job single source reference for cost manufacturing and industrial engineers and as a text for upper level undergraduate graduate and postgraduate students in cost estimating engineering economics and production operations courses A Solutions manual to the end of chapter problems is available free of charge to instructors only Requests for the manual must be made on official school stationery

PDCA Cost and Estimating Guide Volume I, 2004 Practices and Procedures is the how to manual for estimating painting and related work Quality takeoff procedures and estimating methods are thoroughly described and discussed All elements of proper job pricing are described including the evaluation of labor material additional job costs overhead and profit Working blueprints and sample estimates are a part of the manual Job costing methods and their relationship to estimating is included

JATC Handbook United States. Bureau of Apprenticeship and Training, 1962

Handbook of Electronics Industry Cost Estimating Data Theodore Taylor, 1985-09-11 A unique collection of time standards manufacturing methods and overall rules of thumb used for cost estimating electronic equipment and systems As

the only book available on the subject it covers all operations from machining and sheet metal fabrication through wiring circuit board assembly electrical testing and packaging In addition it describes the fields of production schedule determination personnel facility planning ratios and concept estimating Manufacturing Planning and Estimating

Handbook American Society of Tool and Manufacturing Engineers,1963 Mechanical Estimating Guidebook for Building Construction John Gladstone,Kenneth King Humphreys,B. K. Lunde,1987 Means Estimating Handbook

RSMeans,2003-03-26 This comprehensive reference covers the full spectrum of technical data required to estimate construction costs The book includes information on sizing productivity equipment requirements code mandated specifications design standards and engineering factors *Canadian Blacksmith Gas Welder and Automotive Repairman*

,1918 **Cost Estimating Manual for Pipelines and Marine Structures** John S. Page,1977-01-01 From the Book

Preface This manual has been compiled to provide time frames labor crews and equipment spreads to assist the estimator in capsulizing an estimate for the installation of cross country pipelines marshland pipelines nearshore and surf zone pipelines submerged pipelines wharfs jetties dock facilities single point morring terminals offshore drilling and production platforms and equipment and appurtenances installed thereon The time frames and labor and equipment spreads which appear throughout this manual are the result of many time and method studies conducted under varied conditions and at locations throughout the world these time frames and labor and equipment spreads reflect a complete unbiased view of all operations involved When one is engaged in compiling an estimate from any information furnished by others as is the case with this manual he should view it in an objective light giving due consideration to the nature of the project at hand and evaluating all items that may affect the productivity of labor and all other elements involved *Brick foundations, arches, tile setting, estimating* Frank Duncan Graham,Thomas J. Emery,1924 *Building Age and National Builder* ,1929 **Catalog of**

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Engineering Estimates, Costs, and Accounts ,1911 **American Machinist** ,1921 **Engineering Record, Building Record and Sanitary Engineer** ,1907 **Appleton's Popular Science Monthly** ,1948 **Engineering and Cement World** ,1925 *Engineering World* ,1925

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