CONTROLS

CONSTRUCTION MATERIALS TESTING

BUYER'S GUIDE

Shear Strength of Rock Joint: Rock Shear Box Apparatus

STANDARDS

ASTM D5607

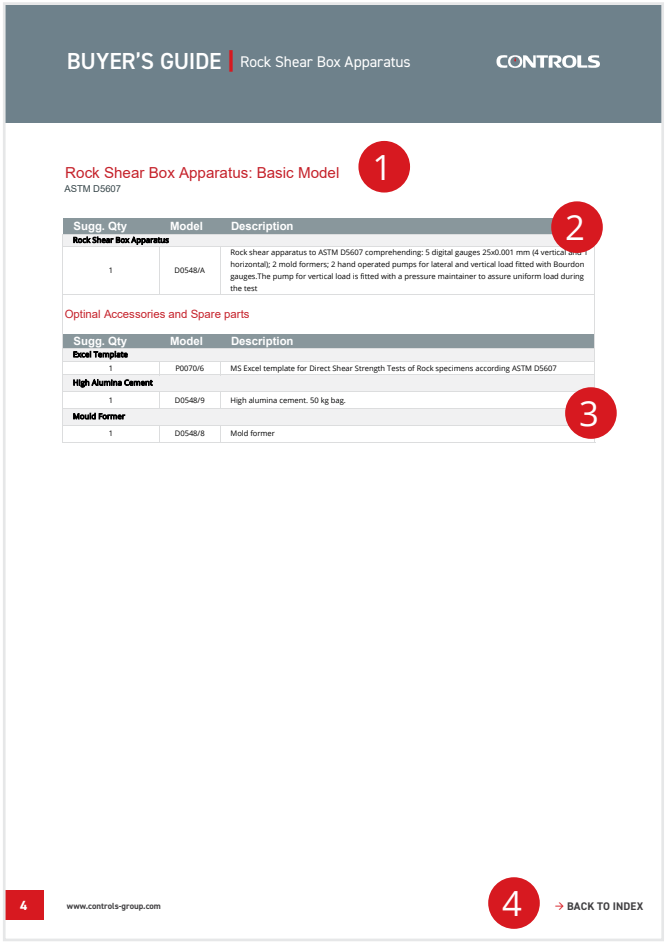
www.controls-group.com

How to use the Buyer's Guide

CONTROLS carries a wide range of advanced soil and rock testing instruments to fit the specific needs of a material testing laboratory.

We have developed this Buyer's Guide to help you decide which configuration is right for your **Rock Shear Box Apparatus** need.

First, select and click the right type of Rock Shear Box Apparatus for your needs in the **Index** to your right. This will take you to a dedicated page for the selected test that includes a summary table with the suggested instrument and required accessories to perform the test.



1. Test method and configuration type
2. Name of main instrument or accessory
3. Choose one or several accessories
4. Go back to Index by clicking here "BACK TO INDEX" button

Introduction to Rock Shear Box Apparatus

The origin of rock joints result from geological failures developing when a break in the rock mass with no visible displacement occurred in the past.

These discontinuities are characterized by a lower mechanical strength than the original rock matrix and require detailed investigations.

The shear strength of a joint can be evaluated using a Rock Shear Box Apparatus. Two versions are available and can be viewed **online**.

BASIC MODEL

BASIC MODEL

It is supplied complete with five digital gauges 25 x 0.001 mm (4 vertical and 1 horizontal); two mold formers; two hand operated pumps for lateral and vertical load fitted with Bourdon gauges. The pump for vertical load is fitted with a pressure maintainer to assure uniform load during the test.

ELECTRONIC MODEL

ELECTRONIC MODEL

It is supplied complete with five potentiometric transducers with 25mm travel (four vertical and one horizontal); two mold formers; two hand operated pumps for lateral and vertical load fitted with Bourdon gauges; two pressure transducers for the direct acquisition of the load values. The pump for vertical load is fitted with a pressure maintainer to assure uniform load during the test.

Displacement and load readings must be acquired by a suitable datalogger to be ordered separately.

Rock Shear Box Apparatus: Basic Model

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Sugg. Qty	Model	Description
Rock Shear Box Apparatus		
1	D0548/A	Rock shear apparatus to ASTM D5607 comprehending: 5 digital gauges 25x0.001 mm (4 vertical and 1 horizontal); 2 mold formers; 2 hand operated pumps for lateral and vertical load fitted with Bourdon gauges.The pump for vertical load is fitted with a pressure maintainer to assure uniform load during the test

Optinal Accessories and Spare parts

Sugg. Qty	Model	Description
Excel Template		
1	P0070/6	MS Excel template for Direct Shear Strength Tests of Rock specimens according ASTM D5607
High Alumina Cement		
1	D0548/9	High alumina cement. 50 kg bag.
Mould Former		
1	D0548/8	Mold former

Rock Shear Box Apparatus: Electronic Model

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Sugg. Qty	Model	Description
Rock Shear Box Apparatus		
1	D0548/D	Digital rock shear apparatus to ASTM D5607 comprehending: 5 potentiometric transducers with 25mm travel (4 vertical and 1 horizontal), 2 hand operated pumps for lateral and vertical load fitted with Bourdon gauges, 2 pressure transducersfor the direct acquisition of the load values on external datalogger
Datalogger		
	Choose one:	
1	P9008	DATALOG 8, 8 channels stand alone multipurpose data logger. 110-230V / 50-60Hz / 1 Ph.
1, As Alternative	P9008/F	DATALOG 8, 8 channels multipurpose data logger, battery operated and with rigid carrying case suitable for use on field. 110-230V / 50-60Hz / 1 Ph.
Set of cable		
2	P9008/ELT	Set of four cables for connecting load cells, pressure transducers, strain gauges, LDT / LVDT / potentiometric type displacement transducers to DATALOG 8 (82-P9008) and GEODATALOG 8 (30-WF6008)

Optional Accessories and Spare parts

Sugg. Qty	Model	Description
Data Acquisition Software		
1	P9008/SOF	DATACOMM 2 data acquisition software and LAN cablefor PC connection of DATALOG 8 (82-P9008, P9008/F) - Up to 8 datalogger (total 64 channels) can be connected to a single PC creating a modular network (LAN hub is required)
Excel Template		
1	P0070/6	MS Excel template for Direct Shear Strength Tests of Rock specimens according ASTM D5607
High Alumina Cement		
1	D0548/9	High alumina cement. 50 kg bag.
Mould Former		
1	D0548/8	Mold former

CONTROLS Customer Care

CONTROLS is the world's leading manufacturer of construction materials testing equipment. Meticulously designed, our equipment helps you deliver the most accurate and reliable testing results possible, transforming your testing laboratory and helping you to achieve your full potential.

As a valued customer of CONTROLS, you will receive continuous, expert support and advice for your equipment. Furthermore, we can offer full installation and training in the correct operation of your equipment.

For support from our expert Customer Care Team, contact your local CONTROLS office / distributor or email **support@controls-group.com.**

For more information, please visit **www.controls-group.com.**

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