

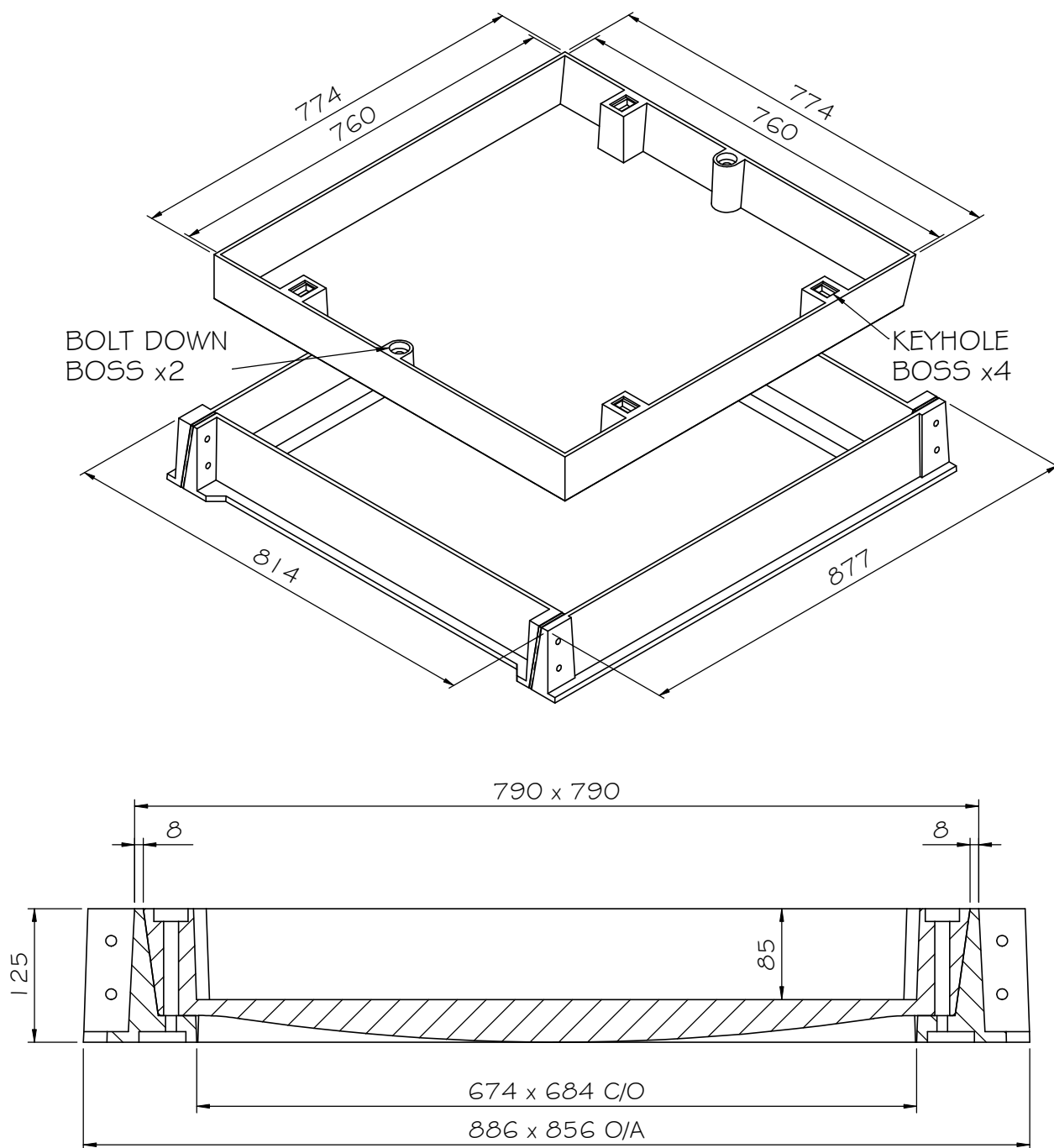


DUCTILE IRON COVER & FRAME

85mm DEEP PAN

CLASS D

Part# - 141736



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SALES ILLUSTRATION

REF. No.
10/29
SERIES. B
CHK'D.

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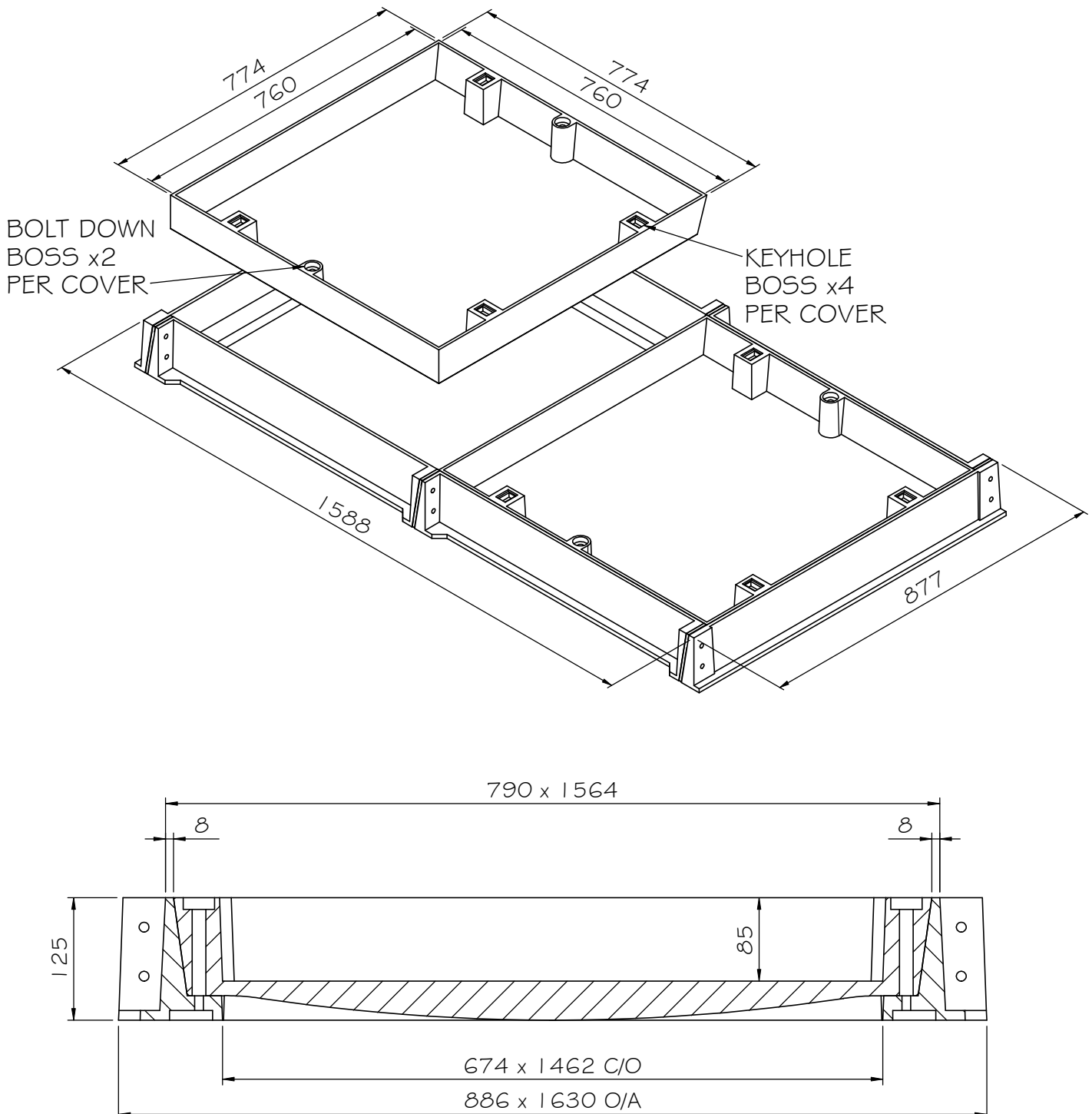


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DUCTILE IRON COVER & FRAME 2 PART 85mm DEEP PAN CLASS D

Part# - 141737



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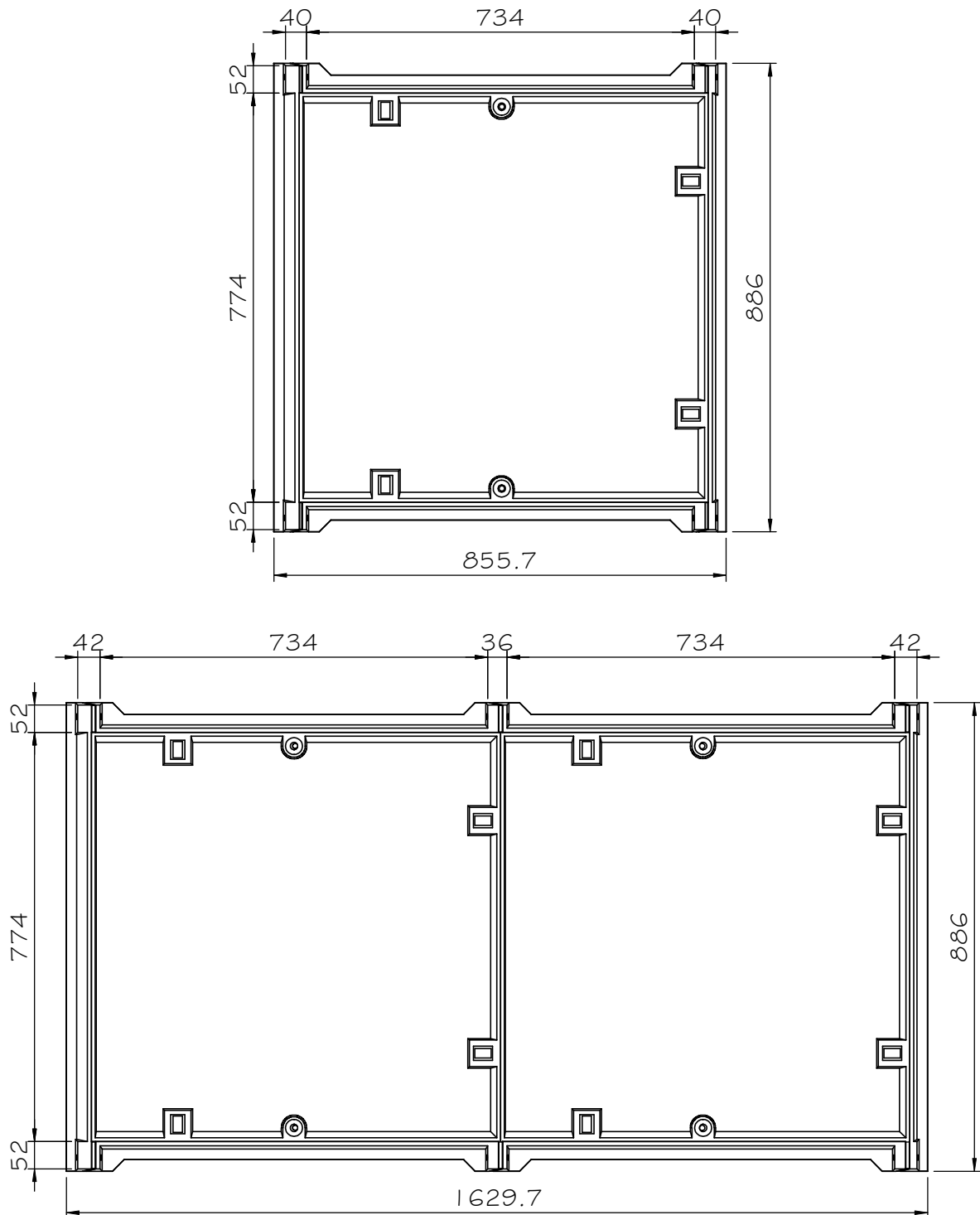
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DUCTILE IRON COVER & FRAME CLASS D 85mm DEEP PAN SINGLE & 2 PART PLAN VIEW



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CNSP Application Ref:
040511_004

Chris McMahon,
CNSP Administrator,
CHORUS,
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Hamilton, 3240
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To: Tim Yandall
Country Manager NZ
ACO Polycrete Pty Ltd
P.O.Box 15 444, New Lynn
Auckland

Date: 17th May, 2011

Subject: Chorus Network Specified Product – Ductile Iron Infill cover and Frame

With reference to CNSP application Number 040511-004, I am pleased to advise that your Ductile Iron Infill cover and Frame has been approved for use in the Telecom Network.

Your product has been entered onto the Chorus Network Specified Product (CNSP) list which is published on the Chorus website www.chorus.co.nz. The CNSP product reference section is 11.2 Footway Paver Infill Lids in section 11 –MH-Joint Chamber Covers.

You are reminded of your company's responsibility to ensure the product continues to meet the manufacturing and design specifications as supplied with the product application.

Chorus requires you to advise this office in writing of any proposed changes to the product, or your quality system, to enable Chorus to consider any impact to its Network.

Chorus reserves the right to remove your product from the CNSP list if it is deemed the product is no longer suitable for use by our contractors in the Telecom Network.

If you have any queries in relation to this approved application please contact me.

Yours faithfully
Chris McMahon

TEST REPORT



Report Number: 20110408-20-99208417
Report Date: 18th April 2011
Prepared For: ACO Sales

ACO Range: Access - Special
System: Ductile Iron Infill Cover and Frame with 85mm Deep Pan
Part Number: 99208417
Description: Ductile iron infill cover and T frame tested unfilled. See photos.
Size
 - clear opening (Width x Length) 674mm x 688mm (Circular Opening – CO = 674mm)
 - overall 886mm x 856mm x 125mm depth
Drawing Number: E124 Rev. E

Test Date: 8th April 2011
Specification: AS 3996-2006 Access covers and grates
Procedure: AS 3996-2006 Appendix C - Load Tests for Covers and Grates
Acceptance Criteria: AS 3996-2006 Clause 4.2.1.2 Type Test for Class D (for CO=674mm)

Test Equipment:

- Test rig made of steel beams and plates
- Enerpac hydraulic ram with associated load cell and transducer D
- Digital gauge to measure deflection/permanent set

Test Block Size: 250mm Diameter

Test Results: **For Class D**

140kN – Serviceability Design Load (SDL)

6.07mm – Measured Deflection
14.98mm – Maximum Deflection Limit = CO/45

Passed Class D deflection limit under the first application of the serviceability design load.

0.76mm – Measured Permanent Set
1.35mm – Maximum Permanent Set = CO/500

Passed Class D permanent set limit after the fifth application of the serviceability design load.

TEST REPORT



Test Results cont.:

210kN – Ultimate Limit State Design Load (ULSDL)

1.82mm – Permanent Set (No Limit)

After the final inspection, the cover showed no visible cracking collapse or other similar forms of structural failure.

Passed Class D requirements for one application of the ultimate limit state design load.

Comments:

The ACO Ductile Iron Infill Cover and Frame with 85mm Deep Pan (Part No. 99208417) satisfied all the requirements as specified in AS 3996-2006 Clause 4.2.1.2 for Class D.

Testing Officer:

John Gullotta

Darren Chan
Approved Signatory
ACO Polycrete Pty Ltd



Photo A – Test Setup



Photo B – Top of Cover



Photo C – Underside of Cover



Photo D – Load Bar Arrangement

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