

Opie Manufacturing Group Pty Ltd

Division: SMC Stainless (Stainless Metal Craft)

PRODUCT APPRAISAL REPORT TWA1004

In Floor Basket Arrestor
In Sink Basket Arrestor

WSA PS – 841

Published August 2012



WATER SERVICES
ASSOCIATION OF AUSTRALIA

Document History

The following information indicates the changes made to this document.

Date	Version	File Location
21 Mar 2012	Version 1	Draft
11 Sept 2012	Version 2	Final

Peer Reviewers

Name/Title	Organisation	Date
Expert Panel	Water Corporation, Sydney Water, Power and Water NT, Queensland Urban Utilities	
Grant Leslie, Manager Business Services	WSAA	11/09/2012

Approvals

Name/Title	Signature	Date
Grant Leslie, Manager Business Services		11/09/2012

Overview of WSAA

The Water Services Association of Australia (WSAA) is the peak body of the Australian urban water industry. Its members and associate members provide water and wastewater services to approximately 16 million Australians and to many of our largest industrial and commercial enterprises.

Urban water service providers have a critical role in ensuring that Australians have access to adequate and high quality water services. As Australia's population continues to grow, with most of this growth occurring in cities, that role becomes increasingly important.

WSAA's vision is for Australian urban water utilities to be valued as leaders in the innovative, sustainable and cost effective delivery of water services. WSAA strives to achieve this vision by promoting knowledge sharing, networking and cooperation amongst members. WSAA identifies emerging issues and develops industry-wide responses. WSAA is the national voice of the urban water industry, speaking to government, the broader water sector and the Australian community.

Copyright

This document is copyrighted. Apart from any use as permitted under the Copyright Act 1968, no part of this document may be reproduced or transmitted in any form or by any means, electronically or mechanical, for any purpose, without the express written permission of the Water Services Association of Australia Limited.

© Copyright 2012 by WATER SERVICES ASSOCIATION of Australia Limited **All rights reserved.**

CONTENTS

1 INTRODUCTION 5

2 EXECUTIVE SUMMARY 6

3 THE APPLICANT 6

4 SCOPE OF THE APPRAISAL 6

5 APPRAISAL CRITERIA 10

 5.1 Quality Assurance Requirements 10

 5.2 Performance Requirements 10

6 COMPLIANCE WITH APPRAISAL CRITERIA 10

 6.1 Compliance with Quality Assurance Requirements 10

 6.2 Compliance with Performance Requirements 10

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION 10

8 PRODUCT MARKING 11

9 PACKAGING AND TRANSPORTATION 11

10 PRODUCT WARRANTY 11

11 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW 11

12 FUTURE WORKS 11

13 REPORT RECOMMENDATION 11

14 DISCLAIMER 11

 14.1 Issue of Report 12

 14.2 Limits on Reliance on Information and Recommendations 12

 14.2.1 Disclaimer of liability 12

 14.2.2 Need for independent assessment 12

 14.3 No Updating 12

 14.4 No Warranty 12

APPENDIX A – QUALITY CERTIFICATION 14

APPENDIX B – PRODUCT SPECIFICATION 15

APPENDIX C - PRODUCT DRAWINGS 18

APPENDIX D – SUPPLIER CONTACTS 33

1 INTRODUCTION

About the Product Appraisal Scheme

The WSAA National Product Appraisals program is a voluntary scheme introduced by the Water Services Association of Australia to provide a single coordinated appraisal of a product's conformity to the needs of the urban water businesses. It was developed with industry assistance, and draws on the collective knowledge and experience of the urban water businesses and industry specialists.

The program is designed for manufacturers, suppliers, importers, distributors or agents who have a product that may be suitable for use by the water industry and is a process of assessment and review of the design, performance and suitability of a product for use in water and wastewater infrastructure at a nominated performance level.

Includes input from water businesses into testing requirements and trialing conditions. Includes review of the quality management system under which the product is manufactured and supplied. Provides applicant with report and recommendations resulting from the assessment and review. Final authorization, approval or acceptance for use of the product lies with the individual water businesses.

Each water business will have specific local requirements that may result in part or all of your product range not being accepted or approved in that businesses jurisdiction. Before submitting an application for product appraisal WSAA advises each applicant to inform themselves of the acceptance and or approval requirements of each jurisdiction in which the product may be used.

Further information can be obtained from the product appraisal section of the WSAA website <https://www.wsaa.asn.au/ProductAppraisals/Pages/default.aspx> or by contacting Grant Leslie grant.leslie@wsaa.asn.au

About making an application for product appraisal.

This product appraisal application is designed to provide sufficient information for the reference panel of water businesses to assess your product. Applicants are advised to add text under each of the headings in this document and to fill in the tables provided. Applicants may add columns if there are more models than the table allows. If there are too many models relevant tables may be duplicated.

The product appraisal reports are technical in nature and marketing statements and material will be removed from the final report and applicants are advised not to include this material in the application.

2 EXECUTIVE SUMMARY

Opie Manufacturing Group Pty Ltd (Division: SMC Stainless) is an Australian sheet metal manufacturer that offers a wide range of quality stainless steel products. All products are Australian made and tailored to meet customer requirements using the latest computer modelling.

The product range that is the subject of this appraisal report include In Floor Dry Basket Arrestors, Flushing Floor Waste with Integrated Dry Basket Arrestor, In Floor Trough with Integrated Dry Basket Arrestor, and In Sink Dry Basket Arrestors.

SMC Stainless is a "Quality Endorsed Company" (CAB) and holds ISO 9001:2008 Certificate of Registration No. 14444 for the Manufacture of stainless steel products for the construction industry including a range of watermark and Certified products.

SMC Stainless range of products as described in part 3 of this appraisal has been appraised for compliance with WSA PS 841.

It is recommended that WSAA members and associates, subject to any specific requirements of the member or associate, accept or authorise the In Sink and In Floor Basket arrestors as detailed in this report for use as described in Part 3 of this report provided the design, installation, acceptance testing are in accordance with WSAA Member and manufacturer's requirements.

3 THE APPLICANT

Opie Manufacturing Group Pty Ltd (Division: SMC Stainless) is an Australian sheet metal manufacturer that offers a wide range of quality stainless steel products. All products are Australian made and tailored to meet customer requirements using the latest computer modelling.

The company was originally formed in 1962 as Stain-Craft Pty Ltd and now has over 50 years of industry experience. Since its formation SMC has delivered over \$450m in projects and currently employs 52 people.

Its highly automated Sydney based manufacturing facility is 3200sqm and is based at Emu Plains in NSW and the company are experts in 3D CAD using Autodesk Inventor - "if we can draw it, we can make it"

Projects range from \$1,000 to \$2M and are manufactured within the ISO9001:2008 standard. SMC has access to overseas manufacturing for selected items if required and are distributors for Connect Stainless in NSW and ACT.

4 SCOPE OF THE APPRAISAL

The product range that is the subject of this appraisal report include In Floor Dry Basket Arrestors, Flushing Floor Waste with Integrated Dry Basket Arrestor, In Floor Trough with Integrated Dry Basket Arrestor, and In Sink Dry Basket Arrestors. The details of the product range are listed in the following tables.

The product is used in commercial and industrial applications such as

- Food Preparation Areas
- Food Manufacturing / Processing areas such as meat and poultry abattoirs, small goods factories, butchers shops, seafood processing, bakeries, fast food outlets.
- Delicatessens
- Fruit and Vegetable Markets
- Sandwich and Coffee Shops
- Commercial Kitchens

Product Code	AT1	AT1 HST	AT1-100S	AT2	AT2 HST
Material of Construction	Stainless Steel				
Size of drain Bowl	Dia 300	240 x 240	Dia 300	Dia 250	190 x 190
Type	In Floor Dry Basket Arrestor				
Grate Size (mm)	Dia 241	220 x 220	Dia 241	Dia 191	170 x 170
Outlet Size (mm)	Dia 96				
Grate Size - Min Waterway area mm ²	8468	13552	8468	7212	10688
Outlet Min Waterway area mm ²	6881	6881	6881	6881	6881
<u>Filter Basket</u>					
Material of construction	Stainless Steel				
Volume mm ³	4509468	4509468	1903998	1534519	1534519
Hole Size (mm)	4	4	4	4	4
Number of Holes	1431	1431	603	630	630
Flow Area mm ²	17982	17982	7578	7917	7917
<u>Secondary Basket</u>					
Material of construction	Stainless Steel				
Volume mm ³	2193856	2193856	1447664	1137448	1137448
Hole Size (mm)	4	4	4	4	4
Number of Holes	540	540	540	268	268
Flow Area mm ²	6786	6786	6786	3368	3368

Product Code	AT5	AT5 HST	AT6	AT6-YUM
Material of Construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Size of drain Bowl (mm)	Dia 190	140 x 140	300 x 300	300 x 300
Type	In Floor Dry Basket Arrestor			
Grate Size (mm)	Dia 134	128 x 128	267x267	293 x 293
Outlet Size (mm)	Dia 96	Dia 96	Dia 96	Dia 96

Grate Size - Min Waterway area mm²	4357	3867	50115	62322
Outlet Min Waterway area mm²	1583	1583	6881	6881
<u>Filter Basket</u>				
Material of construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Volume mm³	483166	483166	1711125	2209795
Hole Size (mm)	4	4	4	4
Number of Holes	289	289	616	690
Flow Area mm²	3632	3632	7741	8671
<u>Secondary Basket</u>				
Material of construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Volume mm³	514556	514556	559872	1118585
Hole Size (mm)	4	4	4	4
Number of Holes	126	126	93	93
Flow Area mm²	1583	1583	1169	1169

Product Code	AT8	AT9	FFW1	CKT125
Material of Construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Size of drain Bowl (mm)	200 x 200	450 x 450	300 x 300	170 x 1000
Type	In Floor Dry Basket Arrestor	In Floor Dry Basket Arrestor	Flushing Floor Waste with Integrated Dry Basket Arrestor	In Floor Trough with Integrated Dry Basket Arrestor
Grate Size (mm)	167 x 167	401 x 401	260 x 260	128 x 958
Outlet Size (mm)	Dia 96	Dia 96	Dia 96	Dia 96
Grate Size - Min Waterway area mm²	18840	117000	12806	67060
Outlet Min Waterway area mm²	6881	6881	6881	1583
<u>Filter Basket</u>				
Material of construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Volume mm³	315875	4825643	1392059	483166
Hole Size (mm)	4	4	4	4
Number of Holes	306	1536	380	289
Flow Area mm²	3845	19302	4775	3632

<u>Secondary Basket</u>				
Material of construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Volume mm ³	177813	1303538	345342	514556
Hole Size (mm)	4	4	4	4
Number of Holes	93	93	93	126
Flow Area mm ²	1169	1169	1169	1583

Product Code	CKT150	CKT200	ISW50	WSCK1BV
Material of Construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Size of drain Bowl	231 x 1000	276 x 1000	Dia 110	Dia 152
Type	In Floor Trough with Integrated Dry Basket Arrestor	In Floor Trough with Integrated Dry Basket Arrestor	In Sink Dry Basket Arrestor	In Sink Dry Basket Arrestor
Grate Size (mm)	184 x 953	234 x 958	N/A	N/A
Outlet Size (mm)	Dia 96	Dia 96	50 BSP (male)	50 BSP (female)
Grate Size - Min Waterway area mm ²	89582	118792	N/A	N/A
Outlet Min Waterway area mm ²	6881	6881	2206	2463
<u>Filter Basket</u>				
Material of construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Volume mm ³	1534519	4509468	352565	1534519
Hole Size	4	4	4	4
Number of Holes	630	1431	224	630
Flow Area mm ²	7917	17982	2815	7917
<u>Secondary Basket</u>				
Material of construction	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Volume mm ³	1137448	2193856	196947	1137448
Hole Size	4	4	4	4
Number of Holes	268	540	21	268
Flow Area mm ²	3368	6786	264	3368

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA product appraisal network accepts the product range described in part 3 of this appraisal manufactured under cover of a third party certified management system complying with AS/NZS ISO 9001 by a JAS-ANZ accredited Certification Assessment Body (CAB) or by a CAB accredited by an international accreditation system recognised by JAS-ANZ.

5.2 Performance Requirements

SMC Stainless range of products as described in part 3 of this appraisal has been appraised for compliance with WSA PS 841.

Appraisal criteria is also determined by the WSAA Source Management Network and regularly reviewed to ensure that the criteria reflect the requirements of WSAA members.

6 COMPLIANCE WITH APPRAISAL CRITERIA

6.1 Compliance with Quality Assurance Requirements

SMC Stainless is a "Quality Endorsed Company" (CAB) and holds ISO 9001:2008 Certificate of Registration No. 14444 for the Manufacture of stainless steel products for the construction industry including a range of watermark and Certified products.

6.2 Compliance with Performance Requirements

Flow rate on the Stainless Steel In Sink Dry Basket Arrestor - Model ISW-50 is 0.8 Litres per second

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

In Floor Basket Arrestor

Fitting Instructions

All SMC Stainless in floor stainless steel basket arrestors are supplied with a 96mm diameter spigot outlet tail, designed to fit inside of a 100mm drainage pipe. They are supplied with a rubber 'O' ring fitted to the spigot to suit various drainage pipes. The spigot incorporating the 'O' ring should be pushed down inside the drainage pipe the full 100mm length to ensure a good seal.

The top grate section should be set level with the finished floor level. All basket arrestors should be connected to a 'P' trap gully before discharging to the sewer, as per AS3500 National Plumbing and Drainage Code.

Maintenance Instructions

Regular dry sweeping of floor areas is recommended prior to wet cleaning.

Basket arrestors should have basket removed, scrapped and cleaned into a garbage bin regularly to ensure proper continual operation of the unit. The fixed strainer should also be checked and cleaned regularly. The top grate should be replaced after cleaning and replacing the basket and cleaning the fixed strainer.

SMC Stainless can supply additional strainer baskets where required, for those areas where a clean empty basket can be replaced while emptying the original basket

In Sink Dry Basket Arrestor

Fitting Instructions

The SMC Stainless In Sink Dry Basket Arrestor can be fitted into a standard 90 mm Recessed Sink Hole. Sinks with smaller diameter outlet holes can be retrofitted.

A hole punch and recessing tool is available through SMC Stainless for sinks that do not have a 90 mm waste outlet recess.

The In Sink Dry Basket Arrestors are supplied with a 50 mm BSP threaded outlet which must be connected to a coupling on a Chrome Plated Copper, PVC or Stainless Steel 50 mm 'S' or 'P' Trap, prior to connecting to sewer, as per Plumbing Code AS3500.

Maintenance Instructions

It is recommended to scrape and wipe leftover food from plates, cooking equipment and utensils into the garbage before washing up. Never put solid wastes such as coffee grounds or tea leaves down the sink.

Basket arrestors must have basket removed, scrapped and cleaned into a garbage bin regularly to ensure proper continual operation of the unit. The fixed strainer must also be checked and cleaned regularly.

SMC Stainless can supply additional strainer baskets where required, for those areas where a clean empty basket can be replaced while emptying the original basket

8 PRODUCT MARKING

All SMC Stainless products have the SMC Logo on the body stating Company details, Model and Authorisation Number.

9 PACKAGING AND TRANSPORTATION

Not Applicable

10 PRODUCT WARRANTY

All Stainless Steel Basket Arrestors are covered for a warranty period of five years, provided they are installed correctly to suit loadings and site conditions. SMC Stainless can assist in advising the best products to suit the application.

11 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW

All outcomes of the expert panel product review have been incorporated into this appraisal report

12 FUTURE WORKS

No future works items are required

13 REPORT RECOMMENDATION

It is recommended that WSAA members and associates, subject to any specific requirements of the member or associate, accept or authorise the In Sink and In Floor Basket arrestors as detailed in this report for use as described in Part 3 provided the design, installation, acceptance testing are in accordance with WSAA Member and manufacturer's requirements.

14 DISCLAIMER

This Product Appraisal Report (Report) is issued by the Water Services Association of Australia Limited on the understanding that:

This Report applies to the product(s) as submitted. Any changes to the product(s) either minor or major shall void this Report.

To maintain the recommendations of this Report any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Report and appropriate action. Appraisals and their recommendations will be the subject of continuous review dependent upon the satisfactory performance of products.

WSAA reserves the right to undertake random audits of product manufacture and installation. Where products fail to maintain appraised performance requirements the appraisal and its recommendations may be modified and reissued. Appraisal reports will be reviewed and reissued at regular intervals not exceeding five (5) years.

The following information explains a number of very important limits on your ability to rely on the information in this Report. Please read it carefully and take it into account when considering the contents of this Report.

Any enquiries regarding this report should be directed to the Program Manager, Grant Leslie
Phone: 02 9221 0059 email grant.leslie@wsaa.asn.au.

14.1 Issue of Report

This Report has been published and/or prepared by the Water Services Association of Australia Limited and nominated Project Manager and peer group of technical specialists (the Publishers).

The Report has been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Report (the Recipients).

By accepting this Report, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Report that the Recipient has understood and accepted the terms of this Disclaimer.

14.2 Limits on Reliance on Information and Recommendations

14.2.1 Disclaimer of liability

Neither the Publisher(s) nor any person involved in the preparation of the Report accept(s) any liability for any loss or damage suffered by any person however caused (including negligence or the omission by any person to do anything) relating in any way to the Report or the product appraisal criteria underlying it. This includes (without limitation) any liability for any recommendation or information in the Report or any errors or omissions.

14.2.2 Need for independent assessment

The information and any recommendation contained (expressly or by implication) in this Report are provided in good faith. However, you should treat the information as indicative only. You should not rely on that information or any such recommendation except to the extent that you reach an agreement to the contrary with the Publisher(s).

This Report does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it (Product). The product appraisal criteria used in preparing this Report may not address all relevant aspects of the Product.

Recipients should seek independent evidence of any matter which is material to their decisions in connection with an assessment of the Product and consult their own advisers for any technical information required. Any decision to use the Product should take into account the reliability of that independent evidence obtained by the Recipient regarding the Product.

Recipients should also independently verify and assess the appropriateness of any recommendation in the Report, especially given that any recommendation will not take into account a Recipient's particular needs or circumstances.

WSAA has not evaluated the extent of the product liability and professional indemnity insurance that the provider of the product maintains. Recipients should ensure that they evaluate the allocation of liability for product defects and any professional advice obtained in relation to the product or its specification including the requirements for product liability and professional indemnity insurance.

14.3 No Updating

Neither the Publisher(s) nor any person involved in the preparation of this Report [has] [have] any obligation to notify you of any change in the information contained in this Report or of any new information concerning the Publisher(s) or the Product or any other matter.

14.4 No Warranty

The Publisher(s) do[es] not, in any way, warrant that steps have been taken to verify or audit the accuracy or completeness of the information in this Report, or the accuracy, completeness or reasonableness of any recommendation in this Report.

APPENDIX A – QUALITY CERTIFICATION**NCS International**

Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road
Emu Plains NSW 2750

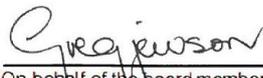
Operates a management system
that complies with the requirements of:

AS/NZS ISO 9001:2008

The Scope of Certification is:

Manufacture of stainless steel products for the construction industry including
a range of Watermark and Certified products

Date of Issue: 06 February 2012
 Expiry Date: 30 April 2015
 Certificate Number: 14444001-QMS-002
 Certification Number: 144444
 Certification Date: 06 April 2009


 On behalf of the board members



To confirm the currency of this certificate please email certification@ncsi.com.au
 This Certificate remains the property of NCS International Pty Limited ACN 078 659 211
 7 Leeds Street, Rhodes NSW 2138
 A wholly owned subsidiary of The National Association of Testing Authorities, Australia ACN 004 379 748
 Accreditation by the Joint Accreditation System of Australia and New Zealand (www.jas-anz.org/register)

APPENDIX B – PRODUCT SPECIFICATION

WATER SERVICES ASSOCIATION of Australia

PRODUCT SPECIFICATION

WSA PS – 841 FLOOR WASTE ARRESTOR

841.1 SCOPE

This specification is intended to provide a technical specification for the appraisal of floor waste arrestors.

841.2 REQUIREMENTS

- a) Floor waste arrestors must have WaterMark Certification to AS 3500:2003 – *Plumbing and Drainage*, and comply with the principals of the following standards:
 - i. AS 5200 - 2005 – *Procedures for certification of plumbing and drainage products*,
 - ii. AS/NZ 4494:1998 – *Discharge of commercial and industrial liquid waste to sewer – General performance requirements*.
 - iii. AS 3996:2006 – *Access Covers and Grates – Class D* (Third party certification or an engineers certificate must be provided)
- b) A removable basket must be supplied for use in conjunction with a fixed screen and/or a failsafe cut-off mechanism
- c) The fixed screen must be in place or failsafe mechanism used below the removable basket. The fixed screen and or the failsafe cut-off mechanism must be robust to prevent its removal and intentional damage or bypass.
- d) The basket should have a handle or other group to allow easy removal from the apparatus.
- e) The design of the top of the basket and apparatus should be such that the waste water flow will be into the basket rather than down the side of the basket.
- f) The flow rate through the removable basket in situ with the fixed screen must comply with AS/NZS 3500:2003 minimum waterway area (mm²). Where the grating has a waterway less than that identified in Table 1, the flow rate is to be greater than the maximum flow rate from a tap outlet as specified in AS/NZS 3500:2003

Table 1 Minimum Waterway Area (mm²)

Floor Outlet Nominal Size (DN)	Minimum Waterway Area (mm ²)
32	250
40	450
50	800
65	800
80	800
90	1000
100	1200
150	2000

- g) The hole size for the basket and fixed screen must not be greater than 4 mm
- h) Replacement screens must be available as part of the product range
- i) The surface of the device including the basket must not have any sharp edges
- j) The size of the basket must be sufficiently greater than a standard Floor strainer and be suitable to capture solids. The basket should hold at minimum of 0.2 L of strained material.
- k) The mode of operation of the in Floor basket trap shall be such that it can be easily mastered by maintenance personnel.
- l) The number and size/dimension of the holes is required for both the fixed screen and the removable basket.

841.3 FORMAT OF THE APPLICATION AND SUPPORTING INFORMATION

The appraisal application is to be presented in both hard and soft copy. The hard copy should be contained in a 3 ring binder and the soft copy on either a USB storage device or CD in files that are no larger than 2MB in size.

Your application should address the following in the order shown below:

- a) Introduction
 - a. An overview of the manufacturer and or distributor
 - b. Overview of the product
- b) Quality control
 - a. Quality Management System Certification
 - b. Evidence of conformance with the requirements (800.2) of this Specification
 - c. Any additional approvals
 - d. Any additional testing programmes and results.
- c) Applicability
 - a. Waste water generation activity applicable to the product
 - b. Provide a product schedule of all products in the range (e.g. 32mm to 150mm), which includes sizing, maximum nominal flow rate (litres/sec), and operational weight (kg) of each model.
- d) Specifications and Drawings
 - a. Detailed scale drawings of all components of the product in sufficient detail to permit accurate determination of all relevant volumes, internal/external diameters and air spaces, pipe connections, arrangement and dimensions of

WATER SERVICES ASSOCIATION of Australia

screens and any other component essential to the operation of the product. All drawings are to be in millimetres.

- b. Materials of construction are to be provided.
 - c. Detailed of the products means of connection is to be provided
- e) Installation Requirements
- a. Details of the installation requirements for the product range is to be supplied, including, but not limited to product handling,
 - b. Location guidance for installations,
 - c. Details on any building code requirements
 - d. Drainage diagram for connection to discharge pipe work
 - e. Any non-standard installation applications.
- f) Operation and Maintenance
- a. Operating Manual
 - b. Maintenance schedule detailing all maintenance procedures and frequency
 - c. Cleaning procedures
- g) Identification
- a. Compliance Plate – A compliance plate must be fitted to each unit, constructed of a robust and durable material, placed in a location where it will remain visible after installation and legible for the life of the unit. The compliance plate must be fitted before leaving the factory and must contain the following information:
 - i. Brand or Manufacturers name
 - ii. Contact phone number of the manufacturer
 - iii. Model Number
 - iv. WSAA Appraisal Number
 - v. Date of Manufacture
 - vi. Rating per day
- h) Warranty
- a. The product is to have a warranty of a minimum of 5 years

Documentary evidence of all aspects of this technical specification will be required to be provided for consideration by the WSAA product appraisal committee. The product appraisal committee is made up of technical experts drawn from WSAA members.

APPENDIX C - PRODUCT DRAWINGS

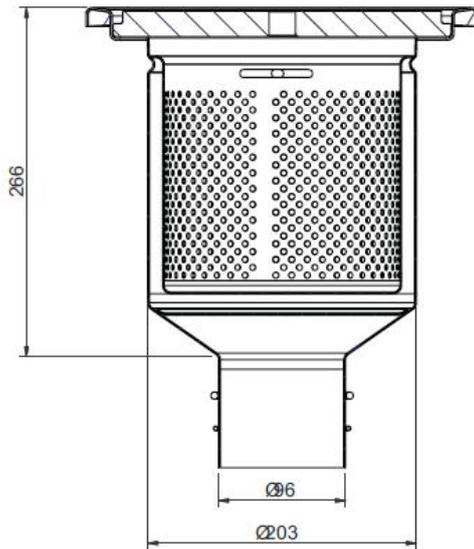
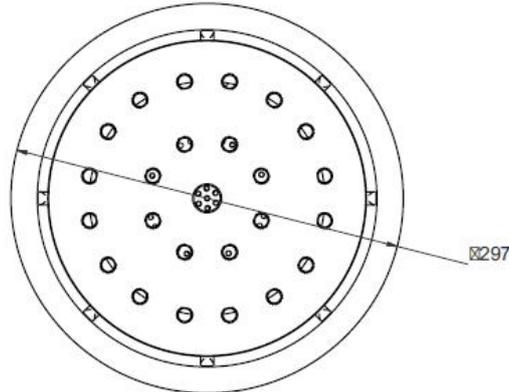
Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES



FLOOR SUMP
AT1



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT1 from
Stainless Metal Craft.
Phone 02 4735 5666

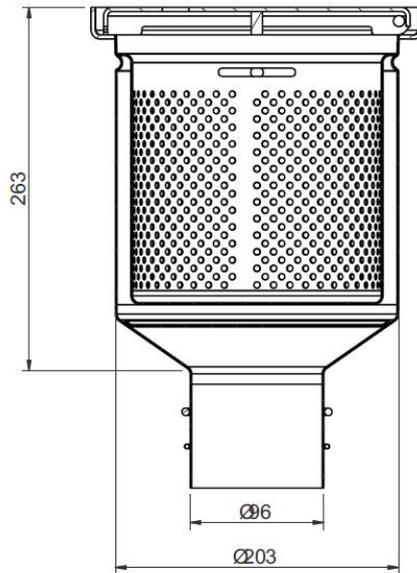
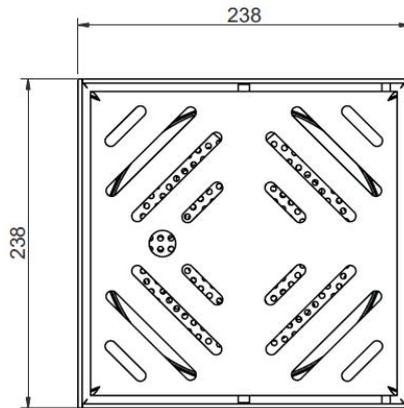


Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

FLOOR SUMP
AT1HST



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT1HST
from Stainless Metal Craft.
Phone 02 4735 5666

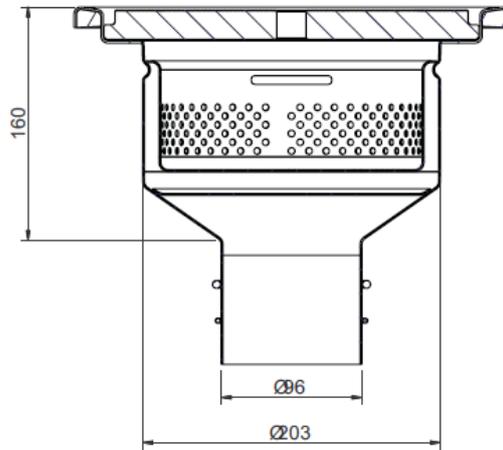
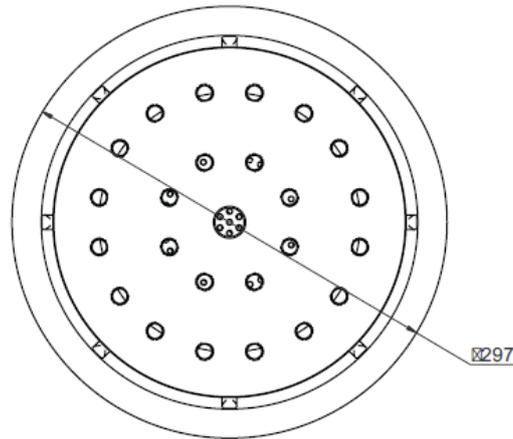


Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

FLOOR SUMP
AT1-1005



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT1-1005
from Stainless Metal Craft.
Phone 02 4735 5666

REV A SEPTEMBER 2011

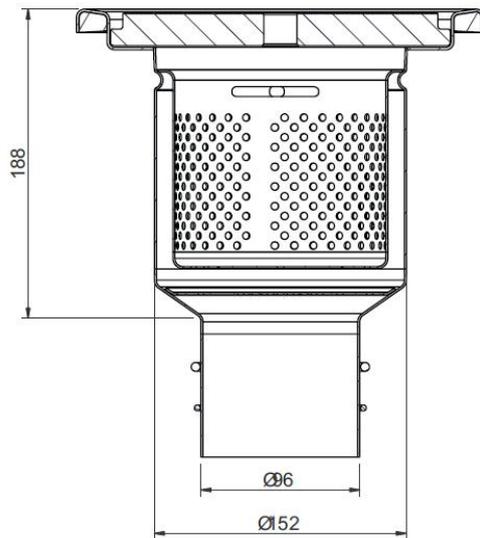
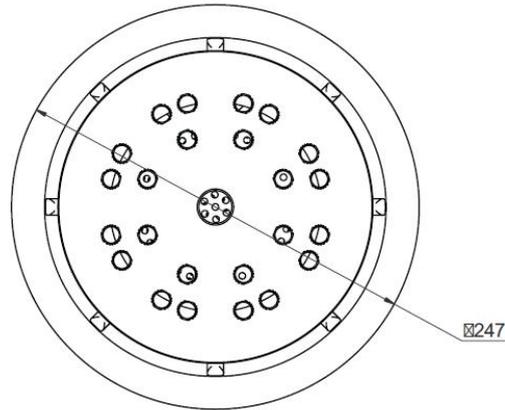


Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

FLOOR SUMP
AT2



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT2 from
Stainless Metal Craft.
Phone 02 4735 5666

REV A SEPTEMBER 2011

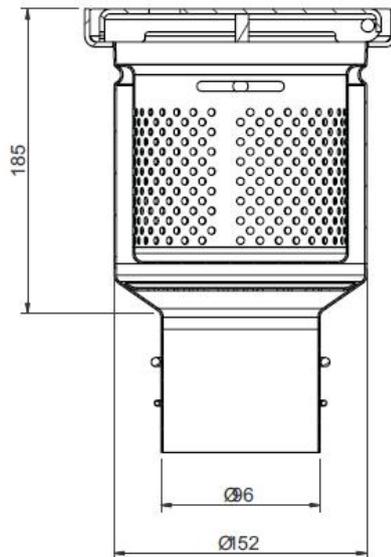
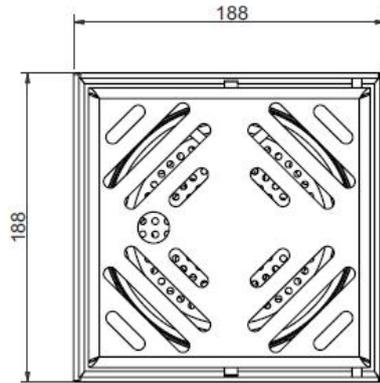


Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

FLOOR SUMP
AT2HST



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT2HST
from Stainless Metal Craft.
Phone 02 4735 5666

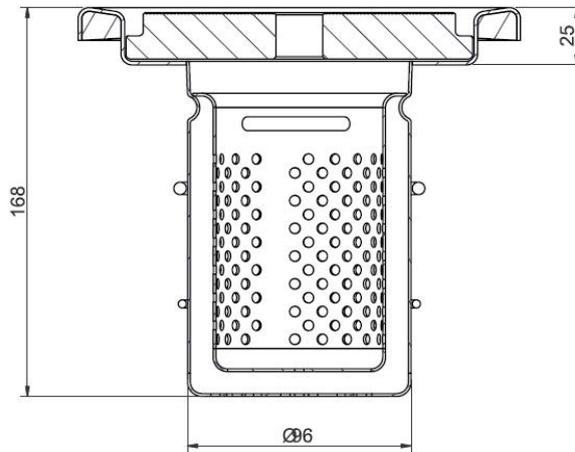
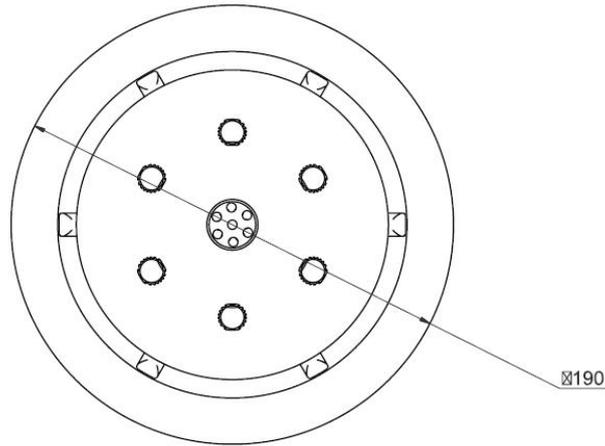
REV A SEPTEMBER 2011

Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

FLOOR SUMP
AT5



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT5 from
Stainless Metal Craft
Phone 02 4735 5666

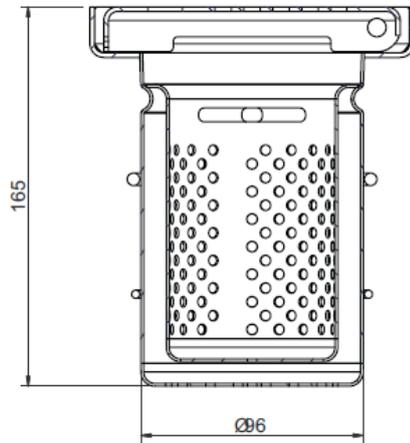
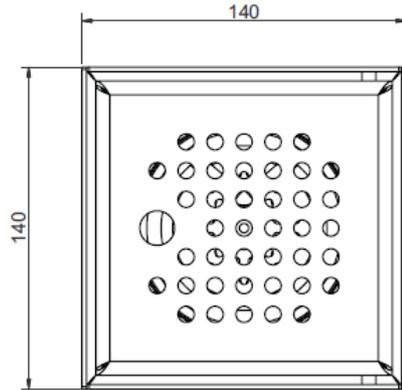


Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

FLOOR SUMP
AT5HST



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT5HST
from Stainless Metal Craft.
Phone 02 4735 5666



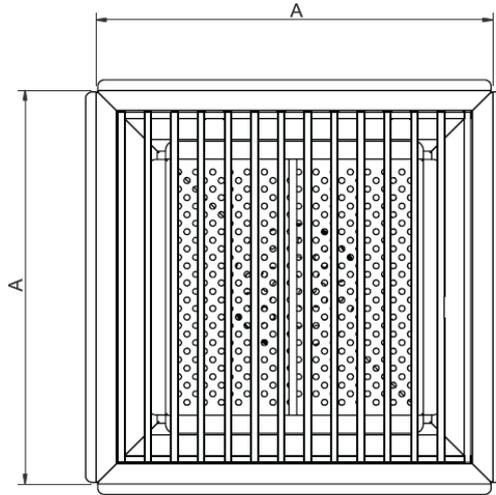
Stainless Metal Craft (Aust) Pty Ltd
 6 Bromley Road, Emu Plains NSW 2750
 P. 02 4735 5666 F. 02 4735 7950
 E. info@smcstainless.com.au
 www.smcstainless.com.au



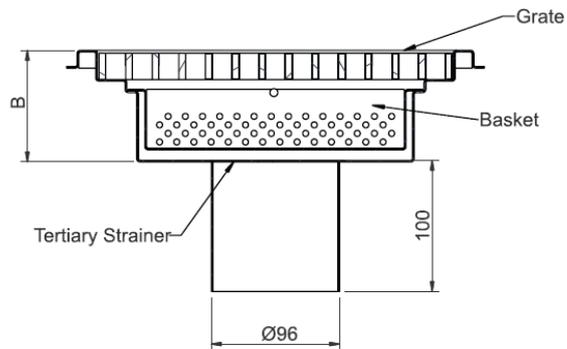
DRAINS, SUMPS & GRATES

FLOOR SUMP

AT6, AT8, AT9



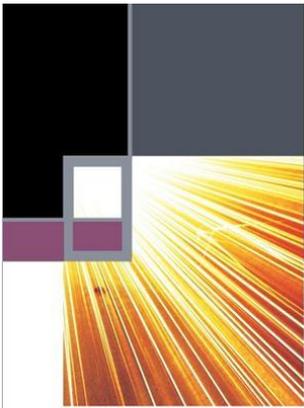
Model	A	B	Loading
AT6	300	85	Heavy Duty
AT8	200	75	Heavy Duty
AT9	450	85	Heavy Duty
AT6XHD	300	85	Extra Heavy Duty
AT8XHD	200	75	Extra Heavy Duty
AT9XHD	450	85	Extra Heavy Duty



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model AT6
 (Refer Chart) from Stainless Metal Craft.
 Phone 02 4735 5666

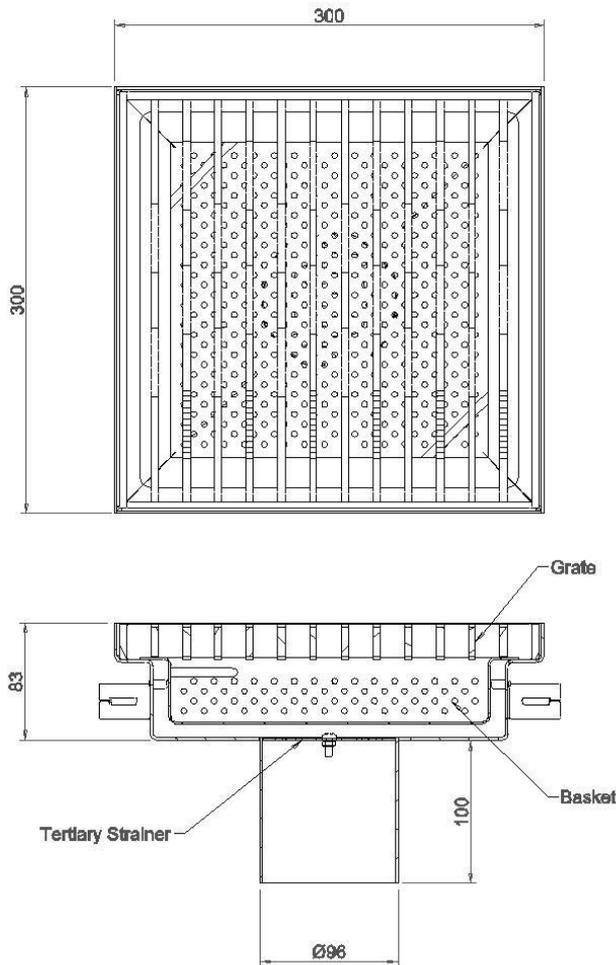
Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 7950 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

FLOOR SUMP

AT6-YUM



SPECIFICATIONS

Stainless Steel FLOOR SUMP Shall be Model
AT6-YUM from Stainless Metal Craft
Phone 02 4735 5666

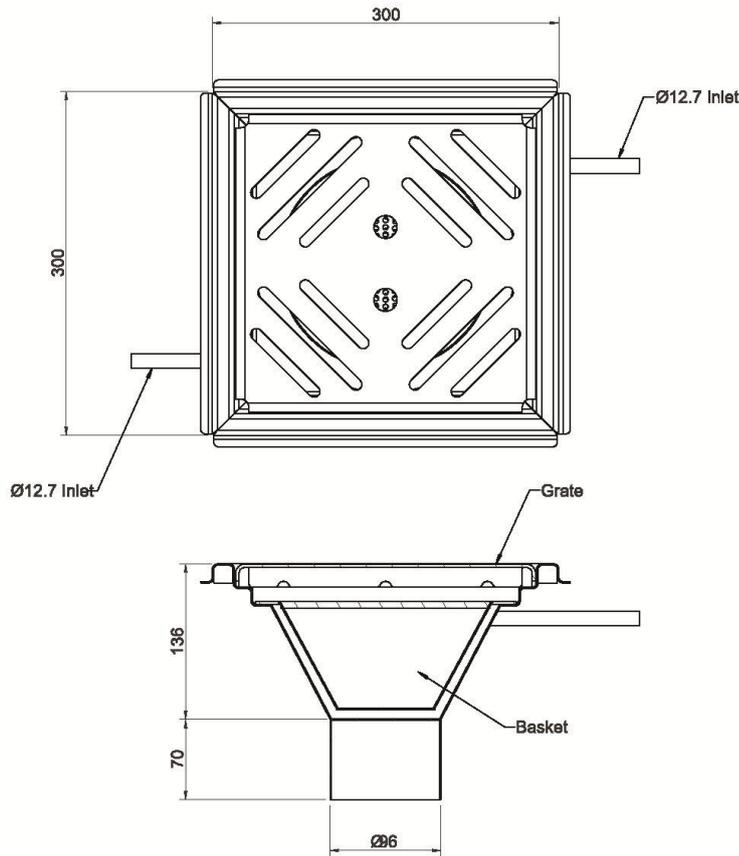


Stainless Metal Craft (Aust) Pty Ltd
 6 Bromley Road, Emu Plains NSW 2750
 P. 02 4735 5666 F. 02 4735 7950
 E. info@smcstainless.com.au
 www.smcstainless.com.au



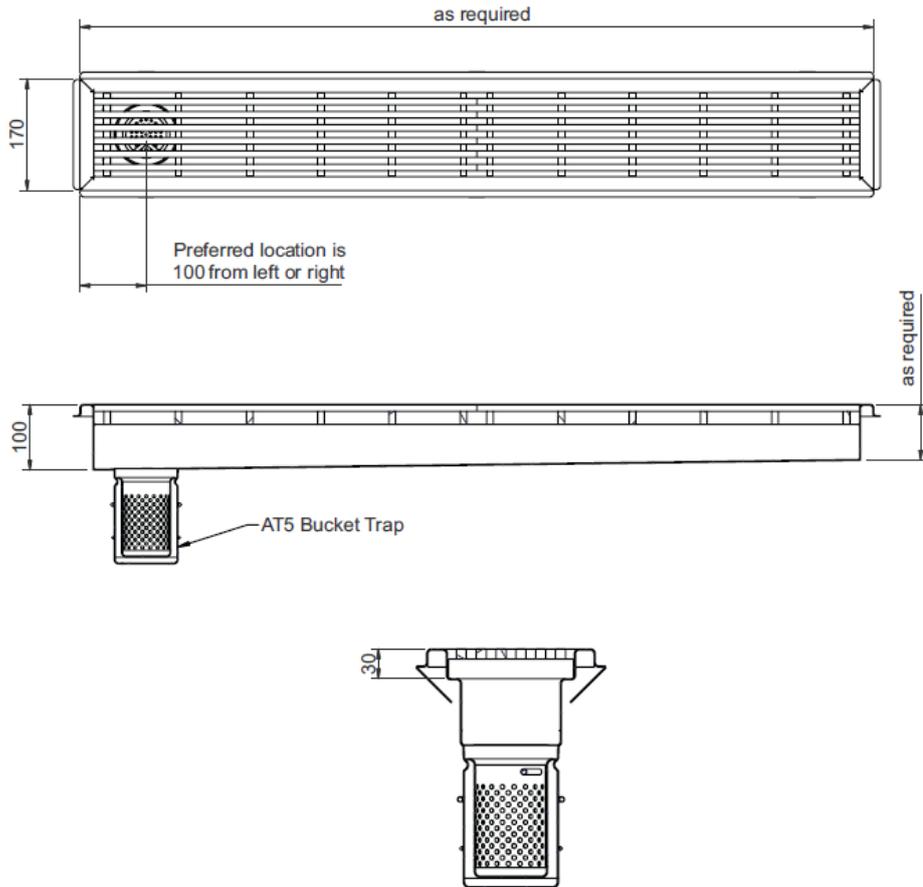
DRAINS, SUMPS & GRATES

FLUSHING FLOOR WASTE
 FFW1



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model FFW1 from
 Stainless Metal Craft.
 Phone 02 4735 5666



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model CKT125 from Stainless Metal Craft.
Phone 02 4735 5666

Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au

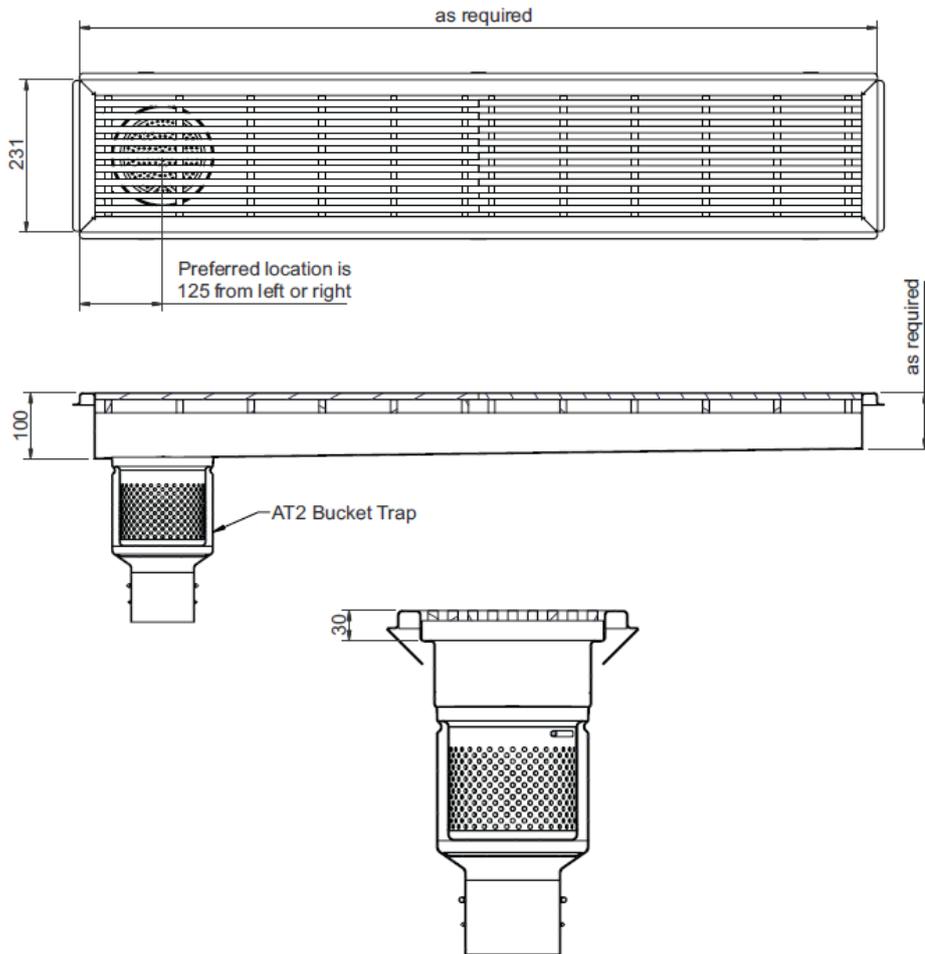


DRAINS, SUMPS & GRATES



FLOOR TROUGH

CKT150



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model CKT150 from Stainless Metal Craft.
Phone 02 4735 5666

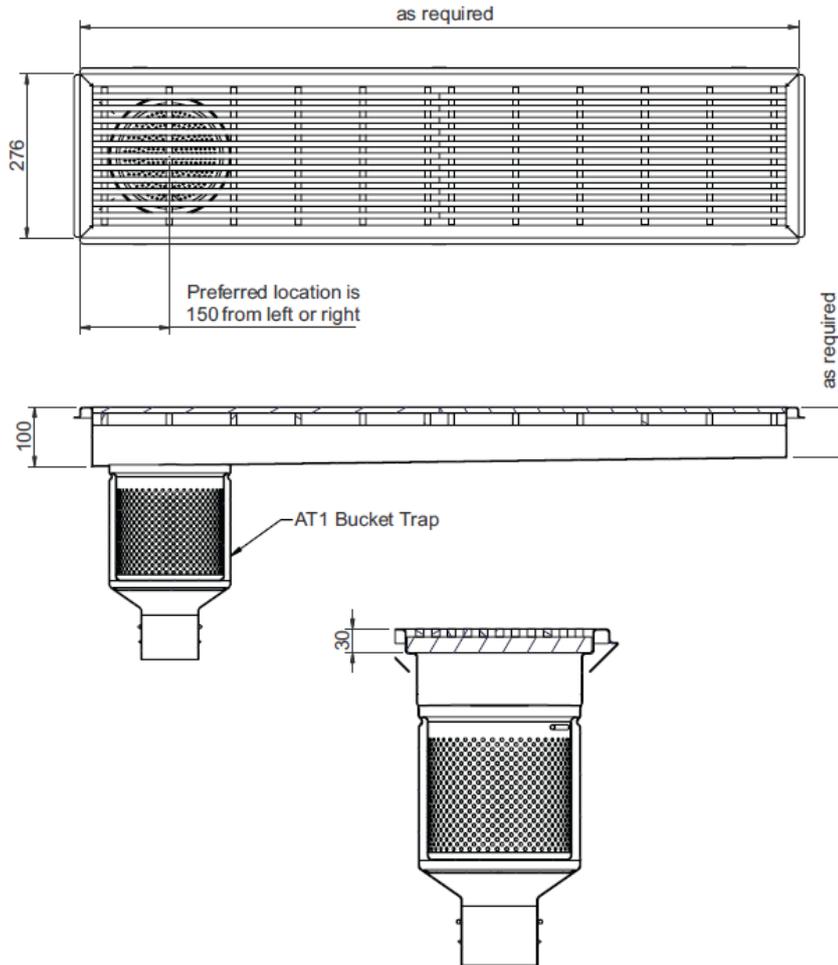


Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 5666 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



DRAINS, SUMPS & GRATES

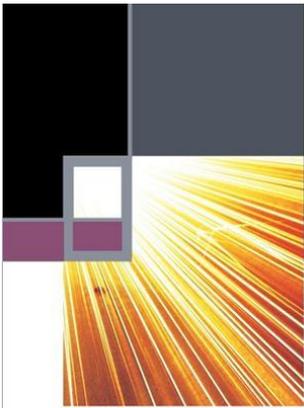
FLOOR TROUGH
CKT200



SPECIFICATIONS

Stainless Steel Floor Sump shall be Model CKT200
from Stainless Metal Craft.
Phone 02 4735 5666

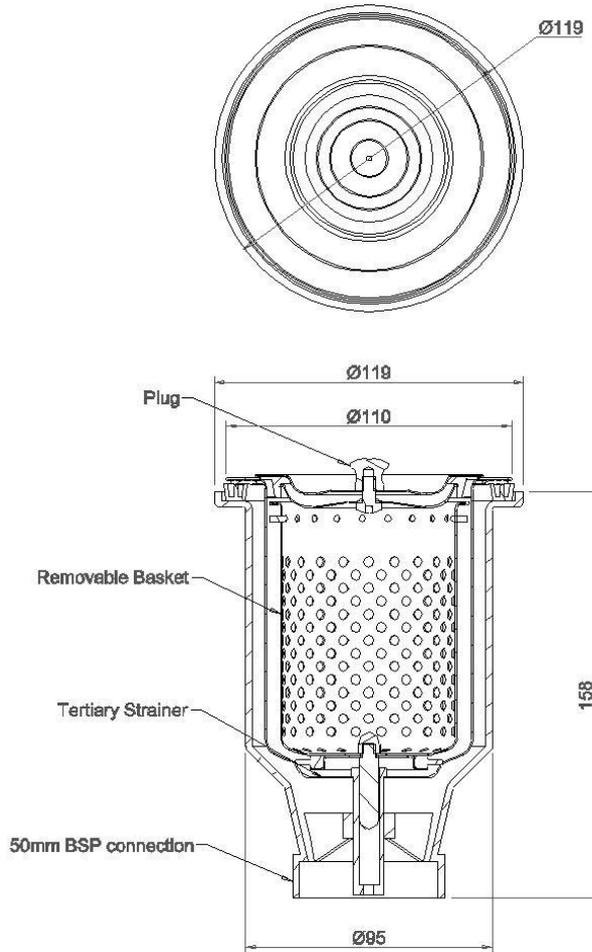
Stainless Metal Craft (Aust) Pty Ltd
6 Bromley Road, Emu Plains NSW 2750
P. 02 4735 7950 F. 02 4735 7950
E. info@smcstainless.com.au
www.smcstainless.com.au



SINK & BASKET WASTES

BASKET WASTE

ISW50



SPECIFICATIONS

Stainless Steel BASKET WASTE Shall be Model ISW50 from Stainless Metal Craft
Phone 02 4735 5666

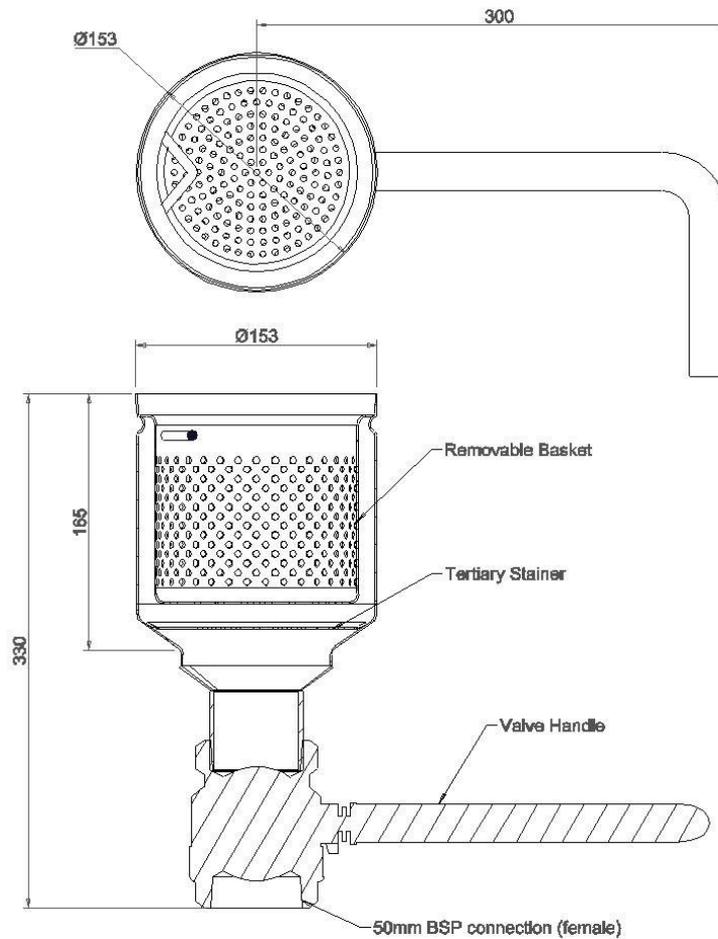
Stainless Metal Craft (Aust) Pty Ltd
 6 Bromley Road, Emu Plains NSW 2750
 P. 02 4735 7950 F. 02 4735 7950
 E. info@smcstainless.com.au
 www.smcstainless.com.au

SMC
 TAINLESS

SINK & BASKET WASTES

BASKET WASTE

WSCK1BV



SPECIFICATIONS

Stainless Steel BASKET WASTE Shall be Model
 WSCK1BV from Stainless Metal Craft
 Phone 02 4735 5666

APPENDIX D – SUPPLIER CONTACTS

6 Bromley Road, Emu Plains NSW 2750

Phone: +61 2 4728 6111

Fax: +61 2 4735 6500

Web: www.laserandpress.com.au

Web: www.smcstainless.com.au

Melbourne Office

Level 8, 469 Latrobe Street
Melbourne VIC 3000

PO Box 13172
Law Courts Post Office
Melbourne VIC 8010

Phone: (03) 9606 0678
Fax: (03) 9606 0376

Sydney Office

Suite 1, Level 30, 9 Castlereagh Street
Sydney NSW 2000

GPO Box 915
Sydney NSW 2001

Phone: (02) 9221 5966
Fax: (02) 9221 5977

www.wsaa.asn.au



WATER SERVICES
ASSOCIATION OF AUSTRALIA