

CONCRETE ENCASEMENT  
(SEE NOTE 1)

SEE NOTE 2

350

SEE NOTE 3

ASPHALT

BASE COURSE

ROAD COURSE

BEDDING LAYER

SOIL

25 max.

100

100

100

NOTES:

1. Specific site conditions may require an increase in concrete encasement dimensions and/or reinforcement. It is the customer's responsibility to ensure the concrete encasement is designed for the application. A minimum concrete strength of 25MPa is recommended. The concrete should be vibrated to eliminate air pockets. *Engineering advice may be required.*
2. The finished level of the asphalt must be approximately 3mm above the top of the channel edge.
3. Haunch slopes away at ratio 1:4, or approx 15°.
4. For further details, refer to ACO's design & site installation files at [www.acodrain.com.au/resources](http://www.acodrain.com.au/resources)

## SPECIFICATION CLAUSE SLABDRAIN H300KS - LOAD CLASS A-B

### GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S SLABDRAIN H300KS POLYMER CONCRETE SHALLOW CHANNEL SYSTEM WITH STAINLESS STEEL EDGE RAILS AS MANUFACTURED BY ACO.

### MATERIALS

H300KS CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH INTEGRALLY CAST-IN STAINLESS STEEL EDGE RAILS. PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS WITH SUPPORTING DOCUMENTATION:

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| COMPRESSIVE STRENGTH:                 | 98 MPa                                 |
| FLEXURAL STRENGTH:                    | 26 MPa                                 |
| TENSILE STRENGTH:                     | 14 MPa                                 |
| WATER ABSORPTION:                     | 0.07%                                  |
| FROST PROOF:                          | YES                                    |
| COEFFICIENT OF EXPANSION/CONTRACTION: | $2.02 \times 10^{-5}/^{\circ}\text{C}$ |
| WATER VAPOUR TRANSMISSION:            | 0.0364g/m <sup>2</sup>                 |
| NON FLAMMABLE:                        | YES                                    |
| COEFFICIENT OF ROUGHNESS (MANNINGS):  | n=0.011                                |
| RESISTANT TO WEATHERING:              | YES                                    |
| DILUTE ACID AND ALKALI RESISTANT:     | YES                                    |
| SF SEALANT GROOVE                     | YES                                    |

### CHANNELS

H300KS CHANNEL SHALL BE 300mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 350mm. CHANNELS SHALL HAVE AN OVERALL DEPTH OF 130mm FOR USE IN AREAS WITH DEPTH RESTRICTIONS. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

### GRATES

INSERT SPECIFICATION FOR THE SELECTED GRATE. REFER TO THE RELEVANT ACO SPECIFICATION INFORMATION SHEET.

CLICK: [www.acodrain.com.au/resources](http://www.acodrain.com.au/resources)

### INSTALLATION

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO AND TO BE INSTALLED FOR ITS INTENDED PURPOSE. ANY DEVIATION OR PARTIAL USE OF THE SPECIFIED SYSTEM AND/OR IMPROPER INSTALLATION WILL VOID ALL WARRANTIES PROVIDED BY ACO.

H3KS-AB-A1



DATE: 12/13

## H300KS - SLABDRAIN - LOAD CLASS: A-B FOR ASPHALT

## INSTALLATION DRAWING - ACO DRAIN

ACO Limited  
New Zealand  
Ph: 0800 448 080  
[www.askaco.nz/aco-drain](http://www.askaco.nz/aco-drain)

Start Your  
Specification  
Here

