



# ChovA

SISTEMAS DE IMPERMEABILIZACIÓN  
Y AISLAMIENTO

## ChovADREN DD GARDEN

POLYETHYLENE DRAINING, NODULAR SHEET "S+F+D"  
TYPE ACCORDING TO UNE-EN 13252

TECHNICAL FILE Nº 83187 – REV 1/20 – 10/09/2020

### COMPLETE INFORMATION OF DRAINING SHEET: ChovADREN DD GARDEN



View "Declaración de Prestaciones y marcado CE in- DoP " en : DoP\_E\_83187\_13252\_CHOVADREN\_DD\_GARDEN\_v01

ASFALTOS CHOVA, S.A.

Ctra. Tavernes a Liria, km 4,3. 46760 TAVERNES DE LA VALLDIGNA. Valencia

#### Description:

Sheet type "S + F + D" for: protection, filtration and drainage-, 2 m x 20 m of high density polyethylene HDPE (HDPE). With nodules of approximate height of 8 mm. Polypropylene fiber geotextile, thermally bonded. Adhered to the nodular lamina.

Recommended as a draining and filtering sheet on green roofs and planters; as well as for buried walls and under slabs. (Considering a system together with other elements to ensure its effectiveness). As drainage under foot traffic pavements. Not recommended as a waterproofing layer.

### GEOTEXTILE FILTRATION PROPERTIES

| TEST                              | METHOD       | UNIT             | VALUE         | TOLERANCE |
|-----------------------------------|--------------|------------------|---------------|-----------|
| Raw material                      |              |                  | Polypropylene |           |
| Weight                            | EN ISO 9864  | g/m <sup>2</sup> | 100           | ±10       |
| Tensile strength MD/CMD           | EN ISO 10319 | kN/m             | 6/6           | -1        |
| Elongation at maximum load MD/CMD | EN ISO 10319 | %                | 55/60         | ±30       |
| Static puncture resistance (CBR)  | EN ISO 12236 | N                | 1000          | -115      |
| Dynamic puncture resistance       | EN ISO 13433 | mm               | 38            | +6        |
| Permeability to water             | EN ISO 11058 | mm/s             | 100           | -40       |
| Opening measurement               | EN ISO 12956 | micron           | 95            | ±35       |

### NODULAR SHEET

| STANDARD DIMENSIONS | METHOD      | UNIT             | VALUE | TOLERANCE |
|---------------------|-------------|------------------|-------|-----------|
| Material            |             |                  | HDPE  |           |
| Weight              | EN ISO 9864 | g/m <sup>2</sup> | 500   | ±5%       |
| Width               |             | m                | 2-4   | ±3%       |

### GEOCOMPOSITE PROPERTIES

| TEST  | METHOD        | UNIT             | VALUE  | TOLERANCE |
|---|---------------|------------------|--------|-----------|
| Weight  | EN ISO 9864   | g/m <sup>2</sup> | 600    | ±50       |
| Thickness 2 kPa                               | EN ISO 9863-1 | mm               | 7,5    | ±1        |
| Tensile strength MD/CMD                       | EN ISO 10319  | kN/m             | 10/10  | -2        |
| Elongation at maximum load (medium MD/CMD)    | EN ISO 10319  | %                | 50/55  | ±15       |
| Compressive strength                          | -             | kPa              | >200   |           |
| Drainage characteristics                      |               |                  |        |           |
| Water flow in the plane MD (20 kPa, R/E, i=1) | EN ISO 12958  | l/(m*s)          | 1,65   | -0,3      |
| Water flow in the plane MD                    | EN ISO 12958  | l/(m*s)          |        | -20%      |
| Hydraulic gradient                            | Contact       | i=0,04           | i=0,10 | i=1       |
| Load: 20 kPa                                  | S/R           | 0,30             | 0,45   | 1,65      |
| Load: 50 kPa                                  | S/R           | 0,20             | 0,35   | 1,35      |
| Load: 100 kPa                                 | S/R           | 0,15             | 0,20   | 0,80      |

S/R: contact Flexible/Rigid

Provided information matches up with data obtained in our own laboratories and/or accredited external laboratories. This product will maintain these characteristics on average. ChovA, S. A. reserves the right to modify or cancel any parameter without previous notice. ChovA, S. A. guarantee is limited to the product quality. As for commissioning work, which do not participate, the product installation instructions must be followed carefully. Soundproofing values may differ from those shown here due to improper execution of work. This technical file will be voided by subsequent revisions and, if in doubt, request the latest revision.



## ChovADREN DD GARDEN

POLYETHYLENE DRAINING, NODULAR SHEET "S+F+D"  
TYPE ACCORDING TO UNE-EN 13252

TECHNICAL FILE N° 83187 – REV 1/20 – 10/09/2020

### DIMENSIONAL CHARACTERISTICS

| STANDARD DIMENSIONS | METHOD | UNIT | VALUE | TOLERANCE |
|---------------------|--------|------|-------|-----------|
| Width of rolls      |        | m    | 2     | ±3%       |
| Length of rolls     |        | m    | 20    | ±2%       |
| Rolls/pallet        |        | nº   | 6     |           |

### RECOMMENDATIONS OF USE

To drain the ground, walls and foundations, with medium or high water table. Complements waterproofing. Applies supported on the wall leaving the geotextile against the ground, leaving an air chamber that enables its filtration. Single overlap applies, between 10 and 20 cm. In walls, shall be fixed with suitable mechanical fasteners, spaced 25 to 50 cm, between them, and about 10 cm from the top. Must ensure not to affect waterproofing membrane, or apply to more than 20 cm above the expected maximum water table height. May use other accessory items such as fixing rails, ventilation grilles, etc.

As a filtering and draining layer under paving for pedestrian use and on green roofs and flower beds.

### ADVANTAGES OF SHEET ChovADREN DD GARDEN

ChovADREN DD GARDEN sheet has the following advantages:

- Resistant to chemical agents
- Resistant to root penetration
- Does not pollute stored water
- Resistant to contamination by fungi and bacteria
- Not degradable

[www.chova.com](http://www.chova.com)

Provided information matches up with data obtained in our own laboratories and/or accredited external laboratories. This product will maintain these characteristics on average. **ChovA, S. A.** reserves the right to modify or cancel any parameter without previous notice. **ChovA, S. A.** guarantee is limited to the product quality. As for commissioning work, which do not participate, the product installation instructions must be followed carefully. Soundproofing values may differ from those shown here due to improper execution of work. This technical file will be voided by subsequent revisions and, if in doubt, request the latest revision.