

FOREIGN EXTRA STOUT Z PIWOWARA II

- Gravity **18.2 BLG**
- ABV **7.8 %**
- IBU **57**
- SRM **35.2**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **13.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **14 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **30 min** at **72C**
- Sparge using **3.2 liter(s)** of **76C** water or to achieve **13.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 3 kg (75%) | 80 % | 5 |
| Grain | płatki owsiane | 0.3 kg (7.5%) | 60 % | 4 |
| Grain | Strzegom Czekoladowy jasny | 0.3 kg (7.5%) | 68 % | 400 |
| Grain | Carafa II | 0.2 kg (5%) | 70 % | 812 |
| Grain | Caraaroma | 0.2 kg (5%) | 78 % | 400 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | lunga | 27 g | 60 min | 11 % |
| Boil | East Kent Goldings | 22 g | 10 min | 5.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |