

Strong Scotch Ale

- Gravity **21.8 BLG**
- ABV **9.8 %**
- IBU **25**
- SRM **15.5**
- Style **Strong Scotch Ale**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **15.9 liter(s)**
- Total mash volume **22.2 liter(s)**

Steps

- Temp **68 C**, Time **80 min**

Mash step by step

- Heat up **15.9 liter(s)** of strike water to **77.6C**
- Add grains
- Keep mash **80 min** at **68C**
- Sparge using **9.5 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 4.5 kg (67.2%) | 79 % | 6 |
| Grain | Strzegom Pilzneński | 1 kg (14.9%) | 80 % | 4 |
| Grain | Briess - Carapils Malt | 0.5 kg (7.5%) | 74 % | 3 |
| Grain | Briess - Caracrytal Wheat Malt | 0.25 kg (3.7%) | 78 % | 108 |
| Grain | Jęczmień palony | 0.1 kg (1.5%) | 55 % | 985 |
| Sugar | trzciniowy | 0.35 kg (5.2%) | --- % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | Marynka | 20 g | 60 min | 10 % |
| Boil | Saaz (Czech Republic) | 30 g | 10 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|-------|--------|------------------|
| FM12 W szkocką kratę | Ale | Slant | 100 ml | Fermentum Mobile |