

Dziki Ciemności

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **21**
- SRM **29.1**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.4 liter(s)**
- Total mash volume **21.8 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16.4 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.8 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------|----------------|--------|-----|
| Grain | Briess - Pale Ale Malt | 2.5 kg (45.9%) | 80 % | 7 |
| Grain | Pszeniczny | 0.7 kg (12.8%) | 85 % | 4 |
| Grain | Castlemalting - Cara Clair | 0.7 kg (12.8%) | 78 % | 4 |
| Grain | Briess - Dark Chocolate Malt | 0.25 kg (4.6%) | 60 % | 827 |
| Grain | Strzegom Czekoladowy jasny | 0.4 kg (7.3%) | 68 % | 400 |
| Grain | Simpsons - Coffee Malt | 0.25 kg (4.6%) | 74 % | 296 |
| Grain | Karmelowy żytni Strzegom | 0.25 kg (4.6%) | 75 % | 150 |
| Grain | Acid Malt | 0.1 kg (1.8%) | 58.7 % | 6 |
| Grain | Wheat, Torrified | 0.25 kg (4.6%) | 79 % | 4 |
| Grain | Jęczmień palony | 0.05 kg (0.9%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil | lunga | 18 g | 60 min | 11 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------|--------|---------|--------|
| Flavor | laktoza | 600 g | Boil | 15 min |