

# Świąteczne 2018

---

- Gravity **18 BLG**
- ABV **7.7 %**
- IBU **31**
- SRM **51.5**
- Style **Christmas/Winter Specialty Spiced Beer**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **1 %**
- Size with trub loss **20.2 liter(s)**
- Boil time **70 min**
- Evaporation rate **12 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **27.3 liter(s)**

## Steps

- Temp **65 C**, Time **60 min**
- Temp **72 C**, Time **30 min**

## Mash step by step

- Heat up **19.5 liter(s)** of strike water to **74C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **30 min** at **72C**
- Sparge using **13.6 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield  | EBC  |
|-------|-----------------------------|----------------|--------|------|
| Grain | Strzegom Pilzneński         | 2.7 kg (32.5%) | 80 %   | 4    |
| Grain | Strzegom Monachijski typ I  | 2 kg (24.1%)   | 79 %   | 16   |
| Grain | Special B Malt              | 1 kg (12%)     | 65.2 % | 315  |
| Grain | Płatki owsiane              | 0.4 kg (4.8%)  | 75 %   | 3    |
| Grain | Strzegom Czekoladowy jasny  | 0.6 kg (7.2%)  | 68 %   | 400  |
| Grain | Strzegom Czekoladowy ciemny | 0.5 kg (6%)    | 68 %   | 1200 |
| Grain | Viking Cookie               | 0.6 kg (7.2%)  | 72 %   | 50   |
| Sugar | Milk Sugar (Lactose)        | 0.5 kg (6%)    | 76.1 % | 0    |

## Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | lunga | 35 g   | 60 min | 9.5 %      |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |
| Safale T-58  | Ale  | Dry  | 11.5 g | Fermentis  |

## Extras

| Type  | Name    | Amount | Use for   | Time |
|-------|---------|--------|-----------|------|
| Spice | Cynamon | 35 g   | Secondary | ---  |
| Spice | Tonka   | 15 g   | Secondary | ---  |

## Notes

- The Last Jedi użytkownika szalas (pozdrawiam!) dostosowany do naszych warunków.  
*Dec 4, 2018, 12:31 PM*